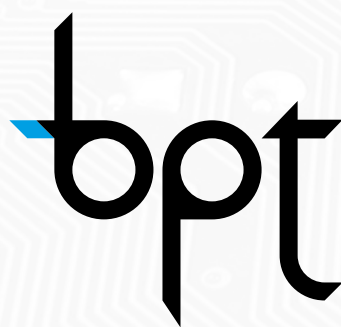# CAME | bpt

Systems Overview & Functions

Audio & Video Entry Systems

LIST PRICED CATALOGUE

Audio & Video Entry Systems

Systems Overview & Functions

CONTENTS

CAME GROUP

BPT HEAD OFFICE
Sesto al Reghena, Italy

CAME GROUP HEADQUARTERS
Treviso, Italy

CAME GROUP LOGISTIC STORE
Treviso, Italy

40 years of history,
40 years of development

Since the inception of CAME Cancelli Automatici in 1972, CAME has been at the forefront of design, development and production of automated gate entry. With over 40 years experience, CAME Group has developed a wide network of global partners who lead their field, from automatic bollards to home automation.

Success has come through a belief in technological advancement, a willingness to develop, but most of all through our outstanding global service to CAME customers.

Quality, Innovation and attention to detail have been the stalwart principles of BPT since Lisio Plozner created BPT in the post Second World War era. CAME Group has welcomed BPT, along with the ethics and vision the company lives by, into the organisation.

Success breeds success, as the family grows the future ensures the development of our history.

CAME BPT UK & IRELAND

When CAME GROUP acquired BPT Security Systems Ltd in 2012, it was the unification of two dominant forces in the UK automation industry. Both companies achieved remarkable success in their respective market sectors and this alliance ensured these accomplishments would continue. This convergence demonstrates that CAME BPT is now truly an outstanding force to be reckoned with.

The company has grown substantially, and the outlook for future growth remains bright, as CAME BPT continue to maintain a high level of quality and service across the UK. In 2014 our new flagship office in Hemel Hempstead opened, which houses the most technologically advanced demonstration centre and training facilities ever displayed in the UK, and the instigation of our Ireland operation with the opening of a branch in Dublin.

Geographically, CAME BPT now has branches in Hemel Hempstead, Nottingham, Manchester and Dublin ensuring strategic coverage of the UK and Ireland. This helps us to provide a more local service to regionally located customers, the capacity to hold more stock and the guarantee of a faster and more reliable service.

CAME BPT UK & IRELAND BRANCH LOCATIONS   CAME | bpt

CAME BPT IRELAND – Dublin
Unit A1 Ballymount
Corporate Park,
Ballymount,
Dublin 12
T: 01 429 5660

CAME BPT NORTH – Manchester
Unit 14, Latham Close,
Bredbury Park Industrial Estate Bredbury,
Stockport,
SK6 2SD
T: 0161 406 9800

CAME BPT MIDLANDS - Nottingham
Unit 3, Orchard Park Industrial Estate,
Town Street, Sandiacre,
Nottingham,
NG10 5BP
T: 0115 921 0430

CAME BPT SOUTH – Hemel Hempstead
Liberta House,
Maxted Road,
Maylands Industrial Estate,
Hemel Hempstead, Herts HP2 7DX
T: 01442 230 800

COMMITMENT TO PRODUCTION

IN HOUSE PRODUCTION FACILITY

Our Hemel Hempstead office, which opened in 2014, boasts a fully operational production facility capable of producing next day deliverable stock.

The multi-million pound facility ensures that customer demands can be met, quality and service can be upheld, and we can offer the widest range of bespoke panelling options in the industry.

- Biggest range of bespoke panelling options in the industry
- UK stock production
- Short lead times
- Please see our Vandal Resistant catalogue for our full range of bespoke panelling options

COMMITMENT TO QUALITY

3 YEAR WARRANTY

For over 50 years BPT have led the market in quality and innovation. Everything manufactured at our production facility incorporates high quality components assembled to the most exacting quality control checks, by people who care.

To support our confidence in the quality of our range, we offer a 3 year warranty on all electrical components, this is backed by a 1 year warranty on all BPT mechanical parts.

With our extensive product range, outstanding sales and technical support, all backed by a three year warranty, if you aren't already using BPT as your preferred door entry product, you may be asking yourself why?

3 YEAR WARRANTY: GUARANTEED QUALITY

✓ **3 year warranty on all BPT electrical components**

✓ **1 year warranty on all BPT mechanical components**

✓ **For full policy please see page 130**

INVESTING IN YOUR STAFF...
...BUILDING YOUR BUSINESS

NATIONWIDE TRAINING ACROSS 4 LOCATIONS

At CAME BPT UK we provide in-house training for all of our systems at our comprehensive and bespoke training rooms based in Hemel Hempstead, Nottingham, Manchester and Dublin. Courses cover theory, technology and programming techniques, together with fault finding and hands on practical work with simulated site scenarios; we will even provide you with writing materials and refreshments throughout the day.

Across our 4 branches you will find fully interactive showrooms including dedicated Crestron AV and IP system demo suites that you, or your staff, will be able to benefit from.

BOOK NOW ON OUR NEW TRAINING WEBSITE

Interactive course calendar

Extensive course content breakdown

Easy to use online booking system

Introduction to state if the art facilities

'Which course is for me?' selection guide

www.camebpt.co.uk/training

BPT Foundation Level Course - 1 day

- ✓ System 200 audio
- ✓ X1 audio
- ✓ GSM PSTN entry systems

Attendees will gain valuable foundation knowledge of the specification and of a broad range of BPT products.

BPT X1 Video Course - Intermediate Level

- ✓ System components overview
- ✓ Cabling and equipment connection
- ✓ Manual and Software system programming
- ✓ Practical (hands on) system assembly

Intended for individuals who are familiar with the door entry industry and have installed BPT entry systems before or have already attended the Foundation Level course.

XIP Advanced Level Course

- ✓ System components overview
- ✓ Cabling and equipment connection
- ✓ System configuration theory
- ✓ Apple iOS, Android & Microsoft Windows PC Integration
- ✓ Managed Systems (including switchboards)
- ✓ 3rd party AV integration (Crestron/AMX)
- ✓ Advanced software programming
- ✓ Practical (hands on) system assembly

Intended for individuals who are familiar with the door entry industry and have installed BPT entry systems before or have already attended both the Foundation and Intermediate Level courses.

X-Air & X-Air PLUS+ Course

- ✓ System components overview
- ✓ Cabling and equipment connection
- ✓ System configuration theory
- ✓ Apple iOS, Android, Microsoft Windows PC & IP Integration
- ✓ 3rd Party integration
- ✓ Advanced software programming
- ✓ Practical (hands on) system assembly

Intended for individuals who are familiar with the door entry or AV industry and have installed BPT digital entry systems before or have already attended both the Foundation and Intermediate Level courses or the Advanced Level course.

System 200 Maintenance Course

- ✓ System 200 video equipment
- ✓ Connections
- ✓ Maintenance
- ✓ Fault finding

Intended for individuals who are familiar with the door entry industry and have installed BPT entry systems before or have already attended the Foundation Level course.

System 300 Maintenance Course

- ✓ System 300 video equipment
- ✓ Connections
- ✓ Maintenance
- ✓ Fault finding
- ✓ Software and programming

Intended for individuals who are familiar with the door entry industry and have installed BPT entry systems before or have already attended both the Foundation and Intermediate Level courses.
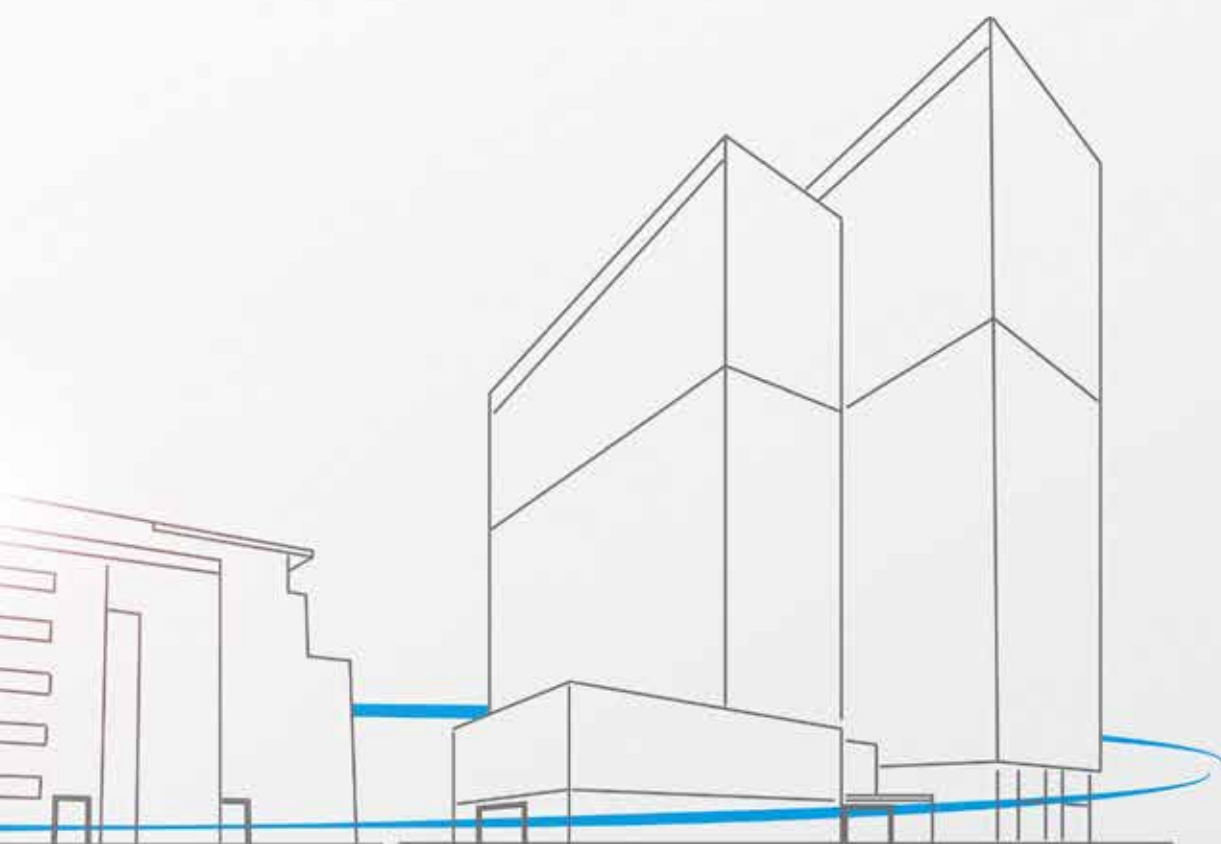
AUDIO & VIDEO
SYSTEM FUNCTIONS
Choosing The Correct System

From simple multi wire audio entry, to IP integrated developments with seamless AV functionality, there is a BPT system to suit every need.

The BPT system range and components are designed using the latest innovations in door entry technology, to deliver outstanding quality and unrivalled reliability.

The section will highlight the features of each system, to assist you in choosing the right solution from the extensive BPT range.
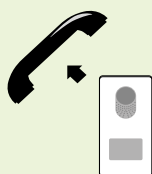
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ENTRY SYSTEM FUNCTIONS

STANDARD

Only for receivers featuring these functions

CALL

Calls can be made in one of two ways, depending on the type of entry panel:
- by simply pressing one of the buttons;
- by calling a number, keying in the call code;
When the call has been made, the entry panel gives the "call confirmed" tone, and the receiver gives the "call received" tone. In the case of a video entry system, the video signal from the entry panel appears simultaneously on the monitor of the receiver. The duration of the "call tone" is programmable; when the programmed time has elapsed, the system is deactivated and the monitor switches off.
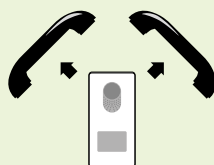
SIMULTANEOUS CALL

The system can be programmed so that a call can be routed to more than one receiver simultaneously: in this case, all the receivers will emit the call tone and their monitors will switch on (for video systems). The call can be answered from any of the receivers; the remaining receivers will switch to "busy".
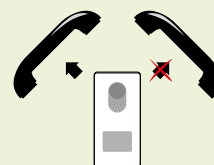
CONFIDENTIALITY OF CONVERSATIONS

To ensure that conversations remain confidential, when a call is made from an entry panel to a receiver the conversation cannot be heard – and the entry panel video cannot be seen – from any of the other receivers. The conversation can be interrupted only by another call with a higher priority. The confidentiality of the conversation is also maintained in the case of self-connection of a receiver or a simultaneous call (including those from inside the same apartment).

CALL FROM STAIR-LANDING

This function can be set up by connecting a standard button directly to the terminals of receivers designed for this feature. When this button is activated, the receiver emits a call tone which is different from that which sounds when a call is made from an entry panel; the monitor, however, does not switch on. The call will be heard only on the receiver the button is connected to.
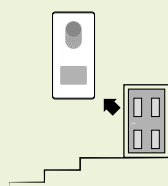
STAIR LANDING ENTRY PANEL

A receiver (or interconnected group of receivers) can also be connected to a dedicated entry panel which is not connected to the other receivers on the riser. The dedicated entry panel can feature the same functions as the main entry panel (audio/video communication with confidentiality of conversations and activation of the door lock). A call between the dedicated entry panel and the receiver to which it is connected does not block the main line, which therefore remains open for any calls from the main entry panel to the other receivers.
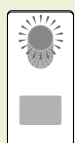
DOOR LOCK RELEASE FROM RECEIVER

During the course of a call the user can press the button on the receiver in order to release the door lock corresponding to the entry panel. The door lock can be released either directly from the entry panel or using remote relay modules.

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STANDARD

Only for receivers featuring these functions

SELF-CONNECTION

When the system is not in use (i.e. when no calls are in progress), press the "self-connection" button on the receiver to activate video communication with the entry panel: the images from the entry panel will be displayed on the monitor of the receiver. If audio, too, is required, simply lift the handset or press the "hands free" button on the receiver.
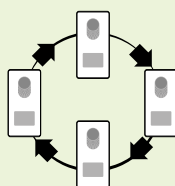
CYCLICAL OPERATION

If the system features more than one video entry panel, it is possible to view all the video images in sequence by pressing "self-connection" on the receiver repeatedly. Systems can also be set up to display not only video images from the individual "block", but also those of the "main" entry panels (i.e. those common to all "blocks"). When the system has been activated, if a call is received from an entry panel, press the "self-connection" button to display the images from the remaining entry panels in the "block" from which the call is made. This operation terminates the call. The system remains activated until cut off by the timer.

AUXILIARY COMMANDS

All receivers feature at least two auxiliary commands (AUX) so that stair lighting, electrically-controlled gates etc. can be controlled by relay modules.

RING TONE DISABLEMENT/ADJUSTMENT

All the receivers have a new generation function to adjust the volume of the call over 2/3 levels with an exclude call option.

ENTRY SYSTEM FUNCTIONS

BUILDING

Only for receivers featuring these functions

DO NOT DISTURB

The "privacy" function allows the user to disable the receiver and thus not to receive calls. This function is set by pressing the relevant key; in this mode, if called, the receiver doesn't emit any acoustic signal.

PANIC ALARM

This function allows the user to send a silent alarm or emergency signal to the porter switchboard without activating an acoustic signal on the receiver. The porter switchboard will be alerted by an acoustic and luminous alarm signal which will be recorded in the events memory. The call takes priority over all others.


EMERGENCY

This function, available only for receivers fitted with the corresponding terminals, makes it possible to connect a button to a generic "pulse generator" which, when activated, sends an emergency/alarm signal to the porter switchboard and activates a special alarm signal that lasts 10 seconds at the receiver. The porter switchboard will be alerted by an acoustic and luminous alarm signal which will be recorded in the events memory. The call takes priority over all others.
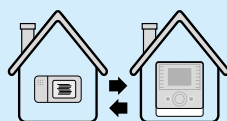
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INTERCOM

Only for receivers featuring these functions
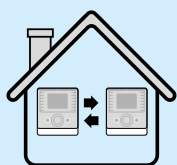
INTERCOMMUNICATION BETWEEN RECEIVERS IN THE SAME APARTMENT

It is possible to make an audio call from one receiver to another by pressing one of the optional intercom buttons (from 2 to 10, depending on the model of the receiver). Calls between receivers maintain confidentiality of the conversation and have a duration of 60 seconds. The call can be interrupted from either of the receivers by replacing the handset (for receivers with handset) or interrupting the call by pressing the relevant button (for hands-free models).

INTERCOMMUNICATION BETWEEN RECEIVERS IN DIFFERENT APARTMENTS

It is possible to make an audio call from one receiver to another by pressing one of the optional intercom buttons (from 2 to 10, depending on the model of the receiver). The call will utilise the main line (riser), which means that no other calls can be made between an entry panel and another receiver. Calls between receivers maintain the confidentiality of the conversation and have a duration of 60 seconds. The call can be interrupted from either of the receivers by replacing the handset (for receivers with handset) or ending the call by pressing the relevant button (for hands-free models).
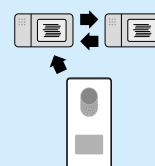

TRANSFER OF CALL

If the system features an intercom function, a call from an entry panel can be transferred to a different receiver. Whether the receiver is in the same apartment or a different apartment, the procedure for transferring the call is the same. When the call is received from the entry panel, it is necessary to answer it as usual, then make the intercom call to the receiver the call is to be transferred to, wait until the receiver responds and finally end the call to the entry panel.

CALL ALERT DURING A CONVERSATION BETWEEN RECEIVERS IN THE SAME APARTMENT

A call from an entry panel to a receiver which is already engaged in an intercom call with another receiver in the same apartment will generate a "beep". The video image from the entry panel making the call will be displayed on both the receivers engaged in the call. To respond to the call it is necessary to replace the handset (or press the hands-free "end call" button), and then answer when the normal call tone is heard. If it is preferred not to interrupt the intercom conversation, the door lock controlled by the calling entry panel can still be released. The entry panel sounds the "busy" signal while the "incoming call" signal is activated.
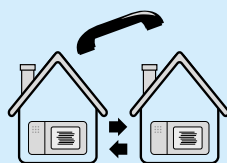

CALL ALERT DURING A CONVERSATION BETWEEN RECEIVERS IN DIFFERENT APARTMENTS

A call from an entry panel to a receiver which is already engaged in an intercom call with another receiver in a different apartment will generate a "beep". The video image from the entry panel making the call will be displayed only on the receiver being called; the receiver in the other apartment will receive no signal. To respond to the incoming call it is necessary to replace the handset (or press the hands-free "end call" button), and then respond when the normal call tone is heard. If it is preferred not to interrupt the intercom conversation, the door lock controlled by the calling entry panel can still be released. The entry panel sounds the "busy" signal while the "incoming call" signal is activated.

ENTRY SYSTEM FUNCTIONS

IP FUNCTIONS

Available only for the XIP system.
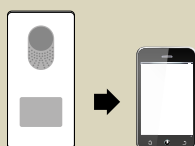
CALL TO A MOBILE DEVICE

Some systems have a setting for receiving audio/video calls from outside directly to a mobile device (iPhone®, smartphone, iPad®, tablet or Android, on which the dedicated XIP Mobile app has already been downloaded) and to manage it via a simple graphic interface. It is possible to carry out actions such as opening doors or switching on stair lights and managing lists of favourite contacts and calls received, missed, or declined.

TWO-WAY AUDIO/VIDEO INTERCOMMUNICATION

The function enables a device such as an iPhone® or Android smartphone to make audio/video intercom calls to other mobile devices connected to the system. Both devices can prevent their own video flow (privacy video) or do a "camera rotation" between the front and rear camera of the mobile device.
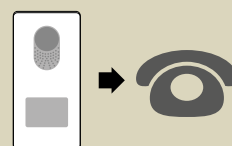
CALL TO ANALOGUE OR GSM PHONES

Via suitable network devices that can be integrated with the BPT video entry system (SIP Gateway and SIP ATA) it is possible to send a call from the exterior to the (traditional or cordless) analogue phone or a GSM phone. This function is particularly useful in systems with a porter or where the video entry system needs to be interfaced with an existing phone system run by a PBX switchboard (e.g. tertiary).
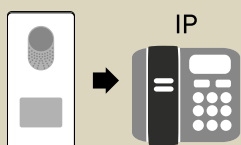
INTEGRATION WITH IP PHONES.

Big organisations are using IP switchboards to manage their phone traffic through the company's computer network increasingly frequently. A call from outside can reach an internal IP phone user via suitable settings on the video entry system server of the IP switchboard or on PSTN/GSM that is aligned with the switchboard.
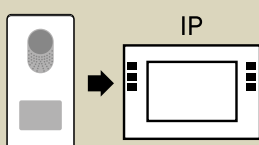
INTEGRATION WITH THIRD-PARTY IP TERMINALS

Thanks to the support of SIP protocol, the XIP system can integrate third-party IP terminals that can therefore receive and manage video entry system calls.

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CHOOSING AN AUDIO ENTRY SYSTEM

TYPES OF INSTALLATION

- Small systems
- Single-/multi-family systems
- Single-entrance systems
- Single-riser systems

- Multiple-riser systems
- Systems with riser with simple wiring
- Systems with standalone access control

η

- Systems with numerous users and long distances
- Systems with porter
- Systems with numerous residential blocks
- Systems with limited number of simultaneous calls
- Systems compatible with the use of fibre optics

∞

- Integration with hi-tech functions (home automation, CCTV, anti-intrusion)
- High number of simultaneous audio/video conversations
- Remote control/operation via IP protocol
- OSD and voice mail on conventional receivers
- Hierarchy-based porter service
- Integration with VOIP telephone switchboards
- Systems with centralized access control

TECHNICAL CHARACTERISTICS

Number of users
Number of main/secondary entry panels
Maximum distance between entry panels and power supply (metres)
Maximum distance between power supply and receivers (metres)
Maximum distance between "blocks" (metres)
Type of wiring for connection of riser
Type of wiring for connection of entry panels
Porter switchboard
Access control functions
Integration with telephone switchboards
Integration with Automation/AV systems
Integration with CCTV systems
Integration with anti-intrusion / technological alarm systems
Colour / B&W

FUNCTIONS

Call
Simultaneous call
Confidentiality of conversations
Call stair-landing from local entry panel
Self-connection
Privacy
Panic and emergency alarms
Intercom function between receivers in the same apartment
Intercom function between receivers in different apartments
"Incoming call" signal during conversations between receivers in the same apartment
"Incoming call" signal during conversations between receivers in different apartments
Call transfer function

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FEATURES OF AUDIO ENTRY SYSTEMS

MULTI WIRED 200	X1	XiP
2000	100	unlimited*
10/80	3/NN	unlimited*
500	650	250
		750
-	-	unlimited
4 wires + n (calls)	twisted pair UTP Cat 5 - VCM/1D	twisted pair UTP Cat 5 - VCM/1D
10 wires + n (calls)	twisted pair + power supply UTP Cat 5 - VCM/2D	3 twisted pairs + power supply UTP Cat 5 - VCM/4D
-	✓	✓
✓	✓	✓
✓	✓	✓
-	-	✓
-	✓	✓
-	-	✓
-	-	-
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
-	✓	✓
✓	✓	✓
-	✓	✓
-	✓	✓

* up to the limits of the network.

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CHOOSING THE RECEIVERS

		PERLA	NOVA EVO	
DESCRIPTION		Hands free Audio Receiver. Surface mount installation. Colours: Fusion Black, Ice White	Receiver with hands-free audio, recessed installation.	
ACCESSORIES		2 way intercom. Desk mount available. Ringtone volume adjustment/disable with LED.	A wide selection of complimentary surrounds in different finishes and colours available	
SYSTEMS				
CONTROLS	Door lock release	✓	✓	
	Cyclic operation	-	-	
	Auxiliary command	✓	✓	
	Auxiliary command	✓	✓	
FUNCTIONS	Melodies	✓	-	
	Intercom calls between receivers	✓ 2	-	
	Doorbell function disabling	✓	-	
	Privacy of receiver	✓	-	
SETTINGS	Volume control	✓	✓	
	Brightness control	-	-	
	Contrast control	-	-	
	Colour control	-	-	

⚠ The "Opale", "Perla", "Agata" and "Ophera" audio/video receivers are also available in a version with an interface for connection to type "T" magnetic induction devices for the hard of hearing 🔲 .

All audio/video and audio receivers feature an input for calls from the stair-landing.

AUDIO RECEIVERS

	AGATA	AGATA BUILDING
	Standard Handset receiver. Surface mount installation. Colour: White	Additional function building handset receiver. Surface mount installation. Colour: White
	Door lock release and auxiliary button. Desk mount available	Door lock release and auxiliary button. Desk mount available. Up to 10 way intercom (X1) Ringtone volume adjustment/disable with LED. panic call button (X1)
	X1 MULTI WIRED 200 XIP Xair	X1 MULTI WIRED 200 XIP Xair
	✓	✓
	-	-
	✓	✓
	✓	✓
	✓ (not for version 200)	✓ (not for version 200)
	-	✓ 8 way (X1) 6 way (200)
	-	-
	-	✓
	-	✓
	-	-
	-	-
	-	-

CHOOSING THE ENTRY PANELS

		PUSHBUTTON PANELS		
		LITHOS	THANGRAM	TARGHA
DESCRIPTION		Monolithic audio entry panel created for the X1 two wire system. Available with brushed stainless steel finishing: Surface mounted or recessed	Modular entry panel (audio only), standard wall-mount or recessed installation with optional embedding boxes and horizontal and/or vertical panel alignment. Finishes: central section in Greyhound Grey or Metal and décor panels in a choice of colours.	Modular entry panel (audio only). Standard wall-mount or recessed installation with optional embedding boxes and horizontal and/or vertical panel alignment. Finishes: Greyhound Grey with décor panel in semi-matt Aluminium Grey or Anthracite Grey with décor panel in polished Aluminium Grey.
ACCESSORIES		Single pushbuttons, double pushbuttons, double-height pushbutton, wall mount rain cover.	Single or double pushbuttons, double-height pushbuttons, or access control modules with keypad. Acoustic or visual status signalling.	Single or double push button modules. Coded Keypad
SYSTEMS		X1 SSM	X1 XiP Xair SSM	MULTI WIRED 200
CHARACTERISTICS	Alphanumerical keypad		✓	✓
	Graphic display			
	Volume adjustment	✓	✓	✓
	Backlighting of keys	blue LEDs 🔵	blue LEDs 🔵	green LEDs 🟢
	Connection to door lock release	✓	✓	✓
	Access control function		✓	-

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		DIGITAL PANELS		
VR	**TARGHA VR**	**DIGITHA**	**TARGHA**	**VR**
Constructed from brushed stainless steel. Flush or surface mounted, security fixings. Available options with: Name windows, coded keypads, Proximity window, Hearing loops. DDA versions available. Finishes: Brushed, Highly polished, brass, RAL coated to any colour. Multiple button options	Monolithic vandal-resistant entry panel (audio only). Standard wall-mount or recessed installation with optional embedding boxes and horizontal and/or vertical panel alignment. Finishes: central section in polished steel with décor panel in Anthracite Grey metal alloy.	Monolithic vandal-resistant (audio) panel in stainless steel, digital calls complete with alphanumeric keypad and address book with 128x128 pixel 6-line LCD display; recessed or wall-mount installation using optional accessories.	Modular entry panel (audio), digital calls complete with alphanumeric keypad and address book with 122x32 pixel 2-line graphic display; standard wall-mount or recessed installation using optional embedding box. Finishes: Greyhound with décor panel in matt aluminium or Anthracite Grey with décor panel in polished Aluminium Grey.	Constructed from brushed stainless steel. flush or surface mounted, security fixings. Digital calling via alphanumeric keypad. Available options with: Proximity window, Trades and Porter call buttons, Hearing loops. DDA versions available. Finishes: Brushed, Highly polished, brass, RAL coated to any colour. Multiple button options
All VR can be manufactured to bespoke requirements	Audio or video entry panels with 0, 1 or 2 pushbuttons and entry panels with 6 pushbuttons.	LED indicators, voice instructions. Proximity reader cut out options available. Hearing loop integration	Digital Targha requires an additional Video or Audio Targha station.	LED Indicators. Adjustable keypad illumination, hearing loop integration
✓		2000 calls 2000 door/gate aperture codes	2000 calls 2000 door/gate aperture codes	1000 Calls 100 door/gate aperture codes
		Status and functions activated signalling	✓	-
✓	✓	✓	✓	✓
-	green LEDs 🟢	-	green LEDs 🟢	blue LEDs 🔵
✓	✓	✓	✓	✓
✓	-	✓	✓	✓

CHOOSING A VIDEO ENTRY SYSTEM

TYPES OF INSTALLATION

- Small systems
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- Single-entrance systems
- Single-riser systems

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- Systems with riser with simple wiring
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- Systems with porter
- Systems with numerous residential blocks
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- Integration with hi-tech functions (home automation, CCTV, anti-intrusion)
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- Remote control/operation via IP protocol
- OSD and voice mail on conventional receivers
- Hierarchy-based porter service
- Integration with VOIP telephone switchboards
- Systems with centralized access control

TECHNICAL CHARACTERISTICS

Number of users

Number of main/secondary entry panels

Maximum distance between entry panels and power supply (metres)

Maximum distance between power supply and receivers (metres)

Maximum distance between "blocks" (metres)

Type of wiring for connection of riser

Type of wiring for connection of entry panels

Porter switchboard

Access control functions

Integration with telephone switchboards

Integration with Automation/AV systems

Integration with CCTV systems

Integration with anti-intrusion / technological alarm systems

Colour / B&W

FUNCTIONS

Call

Simultaneous call

Confidentiality of conversations

Call stair-landing from local entry panel

Self-connection

Privacy

Panic and emergency alarms

Intercom function between receivers in the same apartment

Intercom function between receivers in different apartments

"Incoming call" signal during conversations between receivers in the same apartment

"Incoming call" signal during conversations between receivers in different apartments

Call transfer function

FEATURES OF VIDEO ENTRY SYSTEMS

MULTI WIRED 200	X1	XiP
2000	100	unlimited*
10/80	3/NN	unlimited*
500	650	250
		750
-	-	unlimited
4 wires + coaxial + n (calls) VCM/60 + n (calls)	twisted pair UTP Cat 5 - VCM/1D	twisted pair UTP Cat 5 - VCM/1D
10 wires + coaxial + n (calls) VCM/130+n (calls)	twisted pair + power supply UTP Cat 5 - VCM/2D	3 twisted pairs + power supply UTP Cat 5 - VCM/4D
-	✓	✓
✓	✓	✓
✓	-	✓
-	-	✓
✓	✓	✓
-	-	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
-	✓	✓
✓	✓	✓
-	✓	✓
-	✓	✓

* up to the limits of the network.

CHOOSING THE RECEIVERS

		OPALE	PERLA	MITHO	
DESCRIPTION		Colour video receiver with hands-free audio, 4,3" LCD display, 16:9 format (Opale Wide) and 3,5" 4:3 format (Opale). Wall-mount installation. Colours: Fusion Black , Ice White.	Colour video receiver with hands-free audio, 3,5" LCD display, 4:3 format, recessed installation. Colours: Fusion Black , Ice White.	Colour video receiver with integrated handset and hands-free audio functions, 4.3" LCD touchscreen in 16:9 format, wall-mount installation. Colours: Fusion Black, Ice White.	
ACCESSORIES		Up to 10 way intercom as standard. Desk mount unit available	Up to 8 way intercom as standard. Desk mount unit available	Up to 10 way intercom as standard. Desk mount unit available	
SYSTEMS					
CONTROLS	Door lock release	✓	✓	✓	
	Cyclic operation	✓	–	✓	
	Auxiliary command	✓	✓	✓	
	Auxiliary command	✓	✓	✓	
FUNCTIONS	Melodies	✓	✓	✓	
	Intercom calls between receivers	✓ 10	✓ 8	✓ 10	
	Doorbell function disabling	✓	✓	✓	
	Privacy of receiver	✓	✓	✓	
SETTINGS	Volume control	✓	✓	✓	
	Brightness control	✓	✓	✓	
	Contrast control	–	–	–	
	Colour control	✓	✓	✓	

⚠ The "Opale", "Perla", "Agata" and "Ophera" audio/video receivers are also available in a version with an interface for connection to type "T" magnetic induction devices for the hard of hearing

All audio/video and audio receivers feature an input for calls from the stair-landing.

VIDEO RECEIVERS

	NOVA EVO	AGATA	AGATA BUILDING	FUTURA X1	FUTURA XIP
	Colour video receiver with hands-free audio, 2" LCD display, 4:3 format, recessed installation. Colour: White.	Standard Handset receiver. Surface mount installation. Colour: White	Additional function building handset receiver. Surface mount installation. Colour: White	Colour video monitor/ receiver with 7" touch screen display. Flush or surface mounted. Colour: White, black	Colour video IP monitor/ receiver with 7" touch screen display. Flush or surface mounted. Colour: White, black
	Adapters for most standard 6-module embedding boxes(included). Table-top support available on request.	Door lock release Ringtone volume adjustment/disable with LED, Video transfer (X1) 2 auxiliary buttons. Desk mount kit available.	Door lock release Ringtone volume adjustment/disable with LED, Video transfer (X1) 2 auxiliary buttons. Panic button (X1) * way intercom(X1) 5 Way intercom (200). Desk mount kit available.	Up to 10 way intercom as standard. Desk mount unit available.	Up to 10 way intercom as standard. Desk mount unit available.
	X1 XIP Xair	X1 MULTI WIRED 200 XIP Xair	X1 MULTI WIRED 200 XIP Xair	X1 XIP Xair	XIP
	✓	✓	✓	✓	✓
	✓	✓	-	✓	✓
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
	-	-	-	✓	✓
	-	-	✓ 8 way (X1) 5 way (200)	✓ 8 way (X1)	✓
	-	✓	✓	✓	✓
	-	✓	✓	✓	✓
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
	-	✓	✓	✓	✓
	✓	✓	✓	✓	✓

CHOOSING THE ENTRY PANELS

		PUSHBUTTON PANELS			
DESCRIPTIONS		LITHOS	THANGRAM	TARGHA	
		Monolithic video entry panel created for the X1 two wire system. Available with brushed stainless steel finishing: Surface mounted or recessed	Modular entry panel (colour video); standard wall-mount or recessed installation with optional embedding boxes and horizontal and/or vertical panel alignment. Finishes: central section in Greyhound Grey or Metal and décor panels in a choice of colours.	Modular entry panel, colour or B&W video. Standard wall-mount or recessed installation with optional embedding boxes and horizontal and/or vertical panel alignment. Finishes: Greyhound Grey with décor panel in semi-matt Aluminium Grey or Anthracite Grey with décor panel in polished Aluminium Grey.	
ACCESSORIES		Single pushbuttons, double pushbuttons, double-height pushbutton, wall mount rain cover.	Single or double pushbuttons, double-height pushbuttons, or access control modules with keypad. Acoustic or visual status signalling.	Single or double push button modules. Coded Keypad	
SYSTEMS		X1	X1 XIP Xair	MULTIVIDEO 200 Xair	
CHARACTERISTICS	Alphanumerical keypad		✓	✓	
	Graphic display				
	Volume adjustment	✓	✓	✓	
	Backlighting of keys	blue LEDs ●	blue LEDs ●	green LEDs ●	
	Connection to door lock release	✓	✓	✓	
	Access control function		✓	-	

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	VANDAL RESISTANT	DIGITAL PANELS		
		DIGITHA	TARGHA	VANDAL RESISTANT
	Colour or B&W video, constructed from brushed stainless steel. flush or surface mounted, security fixings. Available options with: Name windows, coded keypads, Proximity window, Hearing loops. DDA versions available. Finishes: Brushed, Highly polished, brass, RAL coated to any colour. Multiple button options	Monolithic vandal-resistant colour video entry panel in stainless steel, digital calls complete with alphanumeric keypad and address book with 128x128 pixel 6-line LCD display; recessed or wall-mount installation using optional accessories.	Modular entry panel, colour or B&W video, digital calls complete with alphanumeric keypad and address book with 122x32 pixel 2-line graphic display; standard wall-mount or recessed installation using optional embedding box. Finishes: Greyhound with décor panel in matt aluminium or Anthracite Grey with décor panel in polished Aluminium Grey.	Constructed from brushed stainless steel. flush or surface mounted, security fixings. Digital calling via alphanumeric keypad. Available options with: Proximity window, Trades and Porter call buttons,Hearing loops. DDA versions available. Finishes: Brushed, Highly polished, brass, RAL coated to any colour. Multiple button options
	All VR can be manufactured to bespoke requirements.	LED indicators, voice instructions. Proximity reader cut out options available. Hearing loop integration	Digital Targha requires an additional Video or Audio Targha station.	LED Indicators. Adjustable keypad illumination, hearing loop integration
	✓	2000 calls 2000 door/gate aperture codes	2000 calls 2000 door/gate aperture codes	1000 Calls 100 door/gate aperture codes
		Status and functions activated signalling	✓	-
	✓	✓	✓	✓
	-	-	green LEDs 🟢	blue LEDs 🔵
	✓	✓	✓	✓
	✓	✓	✓	✓

BPT SYSTEM TECHNOLOGY

The BPT range of systems remains at the cutting edge of access control technology. From simple multi wire audio systems to fully integrated IP, BPT continue to lead the market in innovation and reliability.

With the addition of GSM and wireless network technologies, every scenario can be catered for delivering the technical quality that has cemented the reputation of BPT entry products for over fifty years.

From the most basic single handset kit to developments of thousands of apartments with seamless AV integration, BPT has the perfect solution.

2 wires   *multi wired*   *x-air*   *internet protocol*   *gsm*

X1: EXPANDABLE TWO-WIRE VIDEO ENTRY SYSTEM

From a single home to a condominium. The X1 system can be expanded to meet any requirement – number of receivers, distances between the various parts of the system and control of the entry panels. The X1 system can be supplemented by installing auxiliary cameras, remote actuators and many other features.

This is the most complete system available in terms of flexibility and control of all the parameters for the operation of the system, from the duration of the call tone to the customisation of the auxiliary services for each individual receiver.

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Performance & Technical Data

1 POWER SUPPLY (12 DIN)
TO RUN THE WHOLE SYSTEM

3 ENTRY PANELS CONNECTED
IN 'STAR' CONFIGURATION

108 RECEIVERS

650 METRES BETWEEN ENTRY PANEL
AND FURTHEST RECEIVER

8 CAMERA FOR
VIDEO SURVEILLANCE

1,500 DIFFERENT ACCESS
TO SYSTEM BADGES

1,500 DIFFERENT ACCESS
CODES

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X1 SYSTEM. THE ADVANTAGES OF ADVANCED TECHNOLOGY

2 Non-Polarized Wires: Unbeatable Performance, Long-Distance Coverage, Reduced Costs

A single non-polarized two-wire cable can connect up to 100 receivers: rapid installation and low cost.

Self-Learning Function: Foolproof And Versatile

The system is designed for simple, rapid programming without irritating DIP-switches or other configuration devices: no possibility of errors, no extra costs.

Intercom Function: Up To 10 Monitors Without Additional Conductor

One or more intercom receiver groups can be set up without modifying the riser.

Integration With CCTV & Access Control

The video entry system can be transformed into an active home security system.

X1 System: Full-Optional

- Audio/video conversation confidentiality
- Self-connection/scanning of entry panels and video cameras
- Door lock release with variable activation time
- Call from stair-landing
- Transferring a call
- Auxiliary devices
- System busy signal

108 CALLS

2 NON-POLARIZED WIRES

PROGRAMMING
VIA SOFTWARE

SELF-LEARNING

INTEGRATION WITH CCTV
AND ACCESS CONTROL

INTERCOM BETWEEN
UP TO 10 RECEIVERS

FULL OPTIONALS

BPT CABLES

The X1 system by BPT guarantees excellent performance and signal quality on a variety of cable types including CAT5, with the minimum number of cores required. This makes it particularly suited to replacing older systems or where cable availability is limited. High specification VCM/1D and VCM/2D custom cable from Bpt is also available to optimise system performance.
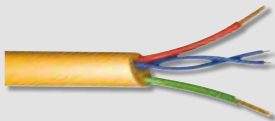
VCM/2D CABLE by BPT (Optimum Performance)

Cable comprising twisted-pair (wire section 0.28 mm2) + two 1 mm2 wires.

PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (±20%) (f = 1 mhz), capacitance 50 pF (at 20°C).

Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment), CEI 20-11 (latest amendment), CEI 20-37.

Supplied in 100m or 500m coils.

		COLOUR OF WIRE	THICKNESS	TYPE OF CABLE
VCM/2D		Green	1.00 mm²	Power supply
		Red	1.00 mm²	
		Light Blue	0.28 mm²	Bus
		White/Light Blue	0.28 mm²	

VCM/1D CABLE by BPT (Optimum Performance)

Twisted-pair cable (wire section 1 mm2)
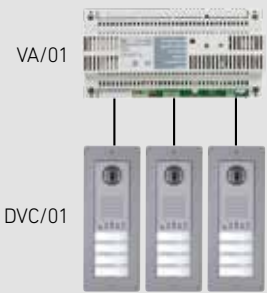
PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twisting pitch 10 twists/m. Tinned copper wires, colour: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (±15%) (f = 1 MHz), capacitance 50 pF (at 20°C).

Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment).

Supplied in 100m or 500m coils.

		COLOUR OF WIRE	THICKNESS	TYPE OF CABLE
VCM/1D		Light Blue	1.00 mm²	Bus/Power supply
		White	1.00 mm²	

RECOMMENDED WIRES FOR EACH TYPE OF CONNECTION

TYPE OF CONNECTION		RECOMMENDED WIRE
Connection between entry panels and power supply modules	VA/01 DVC/01	**VCM/2D** • VCM/2D (Optimum performance) • CAT5 • Twisted pair + Power
Distribution on riser	XDV/304	**VCM/2D** for X1 systems with separate power supply for the receivers • VCM/2D (Optimum performance) • CAT5 • Twisted pair + Power
	XDV/304	**VCM/1D** for X1 systems with receiver power via bus • VCM/1D (Optimum performance) • CAT5 • Twisted pair + Power

DISTANCES

The X1 system by BPT guarantees excellent performance and signal quality, irrespective of the transmission system used. The indications shown in the diagrams are the same for Thangram and Lithos entry panels.

STANDARD SYSTEM
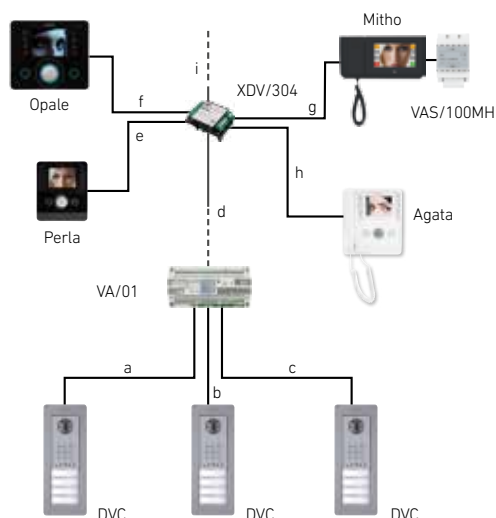
	VCM/2D	UTP CAT5E (ONLY)
(entry panel ← m → receiver)	150	60**

	VCM/1D	VCM/2D	UTP CAT5E (ONLY)
VA/01 (← m → receiver)	100	100	30**
Q = Total cable laid*	600	600	400

(*) The total length of the cable to be laid is based on the connections between the power supply and all the internal receivers + the longest branch (a, b or c) between the power supply module and the entry panel.

Total length of cable=(a) or (b) or (c)+d+e+f+g+h+i+...

(**) For the Agata receiver the distance is 100 metres.

SYSTEM WITH LINE AMPLIFIER

Optional
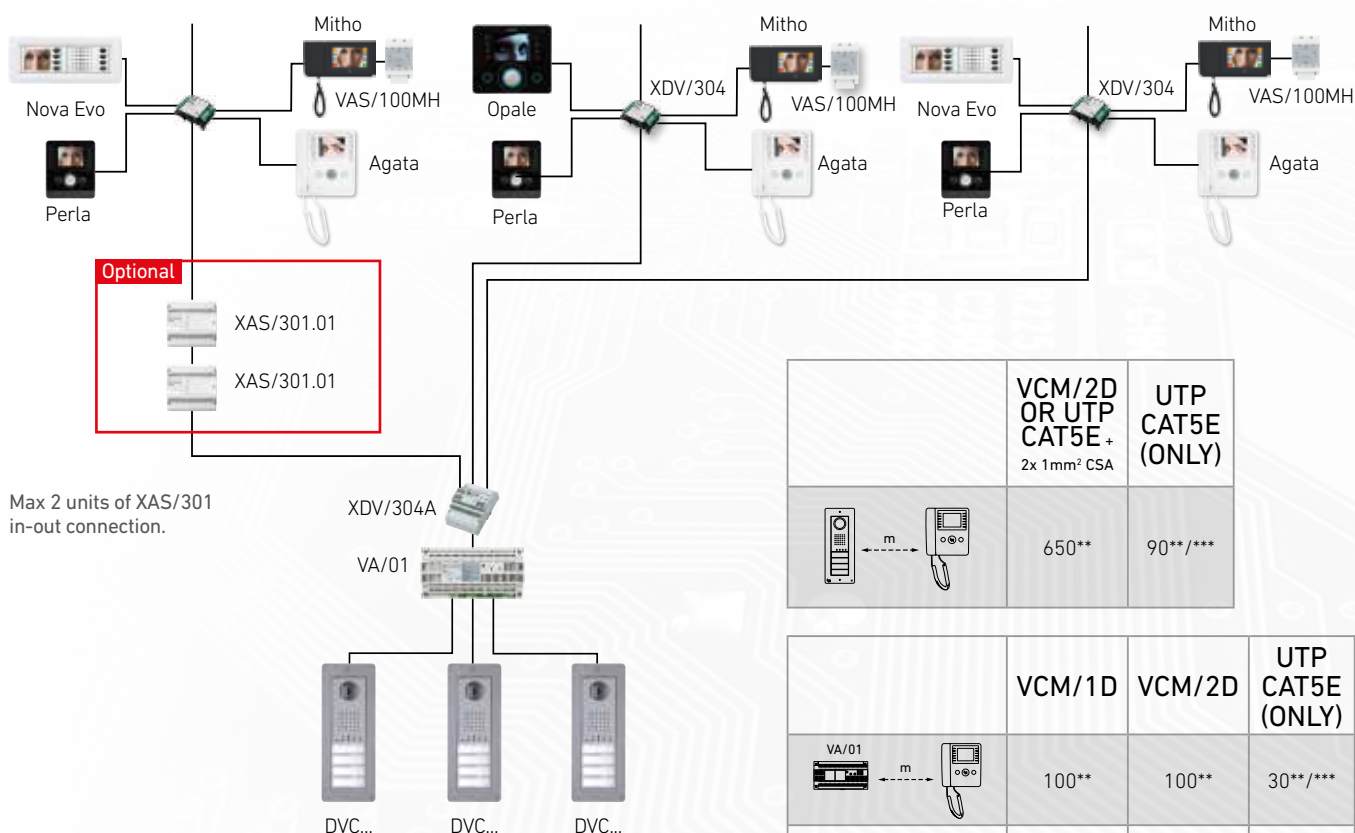
XAS/301.01

XAS/301.01

Max 2 units of XAS/301 in-out connection.

XDV/304A

VA/01

	VCM/2D OR UTP CAT5E + 2x 1mm² CSA	UTP CAT5E (ONLY)
(entry panel ← m → receiver)	650**	90**/***

	VCM/1D	VCM/2D	UTP CAT5E (ONLY)
VA/01 (← m → receiver)	100**	100**	30**/***
Q = Total cable laid*	600**	600**	400**

Optional

(**) The maximum distance between the entry panel and the receiver is increased by 250 metres (plus 1,000 metres total cable length) for each supplementary XAS/301.01 power supply module (maximum of 2 in cascade formation), on condition that no receivers are installed between the XAS/301.01 power supply modules or between the XAS/301.01 and the VA/01 modules, or if the receivers are powered locally.

(*)The total length of the cable to be laid is based on the connections between the power supply and all the internal receivers + the longest branch (a, b or c) between the power supply module and the entry panel.

Total length of cable=(a) or (b) or (c)+d+e+f+g+h+i+...

(***) For the Agata receiver the distance is 100 metres.

PERFORMANCE

Thangram entry panels and VA/01 power supply

TYPICAL RISER DISTRIBUTION

Opale

XDV/304

Mitho

VAS/100MH

Perla

Agata

VCM/1D or CAT5
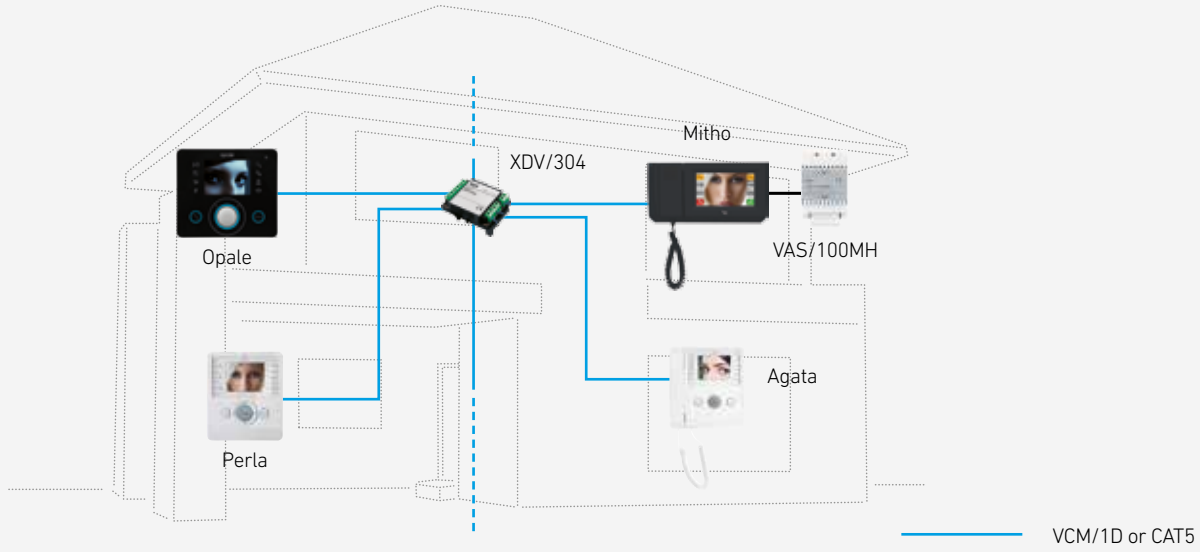
A ... it is possible to create systems with 3 separate entry panels connected in 'star' configuration and 100 receivers.

VA/01

DVC...   DVC...   DVC...
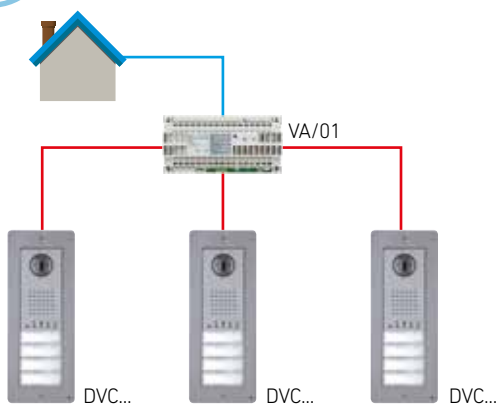
B ... or systems with cyclic selection of 4/8 video cameras that can be viewed from the receivers.

VA/01

VSC/01

DVC...   DVC...
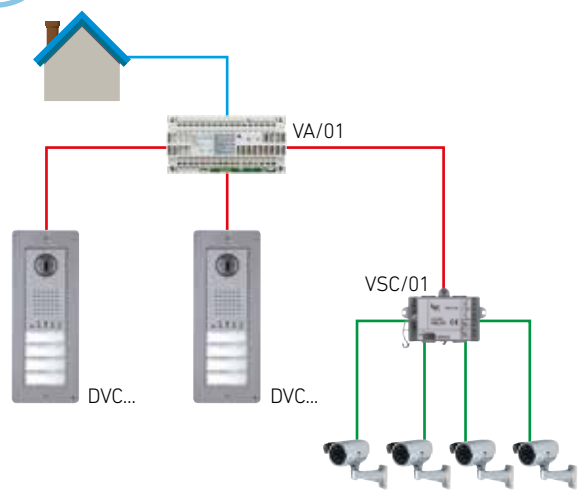
C ... an intercom system can be set up.

XDV/304

Opale   Opale

VA/01

DVC/01
DPH
DTH
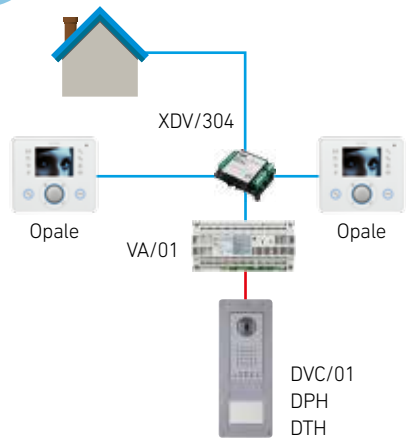
VCM/1D or CAT5

VCM/2D or CAT5 +1mm Pair

COAX

EXAMPLE SCHEMATICS

Single House System With Intercom Function

To create a single-home system without the intercom function, it is sufficient to connect the receiver directly to the power supply module VA/01 or the entry panel LVC/01. In this case, no supplementary components are required.

SYSTEM WITH LITHOS ENTRY PANEL

VCM/1D or CAT5
1mm Pair

(Or suitable equivalent)

Agata

VAS/101

LVC/01
DPH

SYSTEM WITH THANGRAM ENTRY PANEL

VCM/1D or CAT5
VCM/2D or CAT5
+ 1mm Pair

(Or suitable equivalent)

Agata

VA/01

DVC/01
DPH
DTH
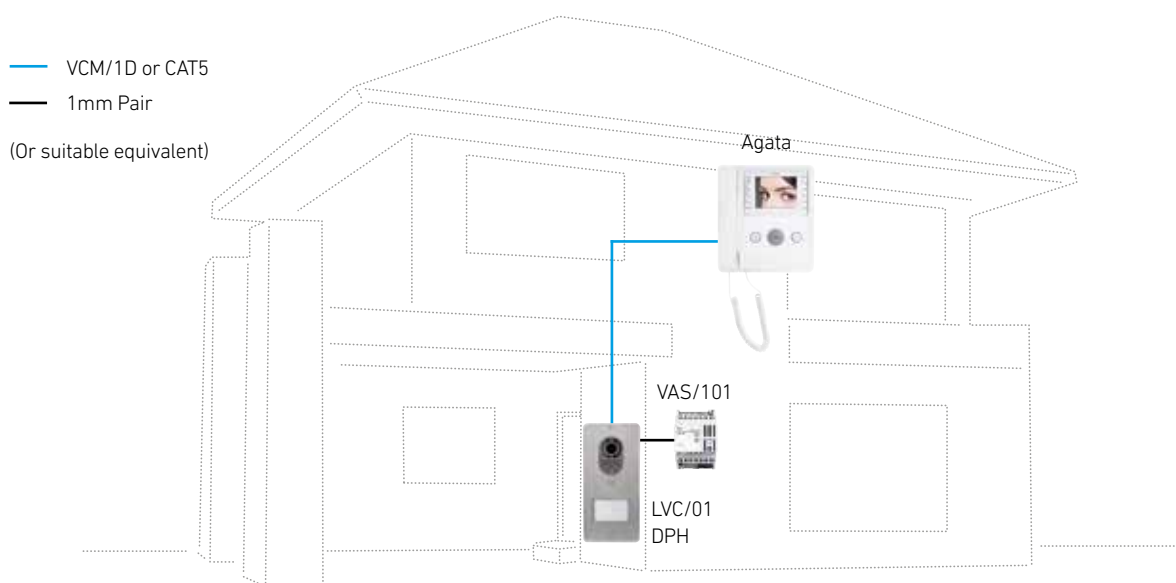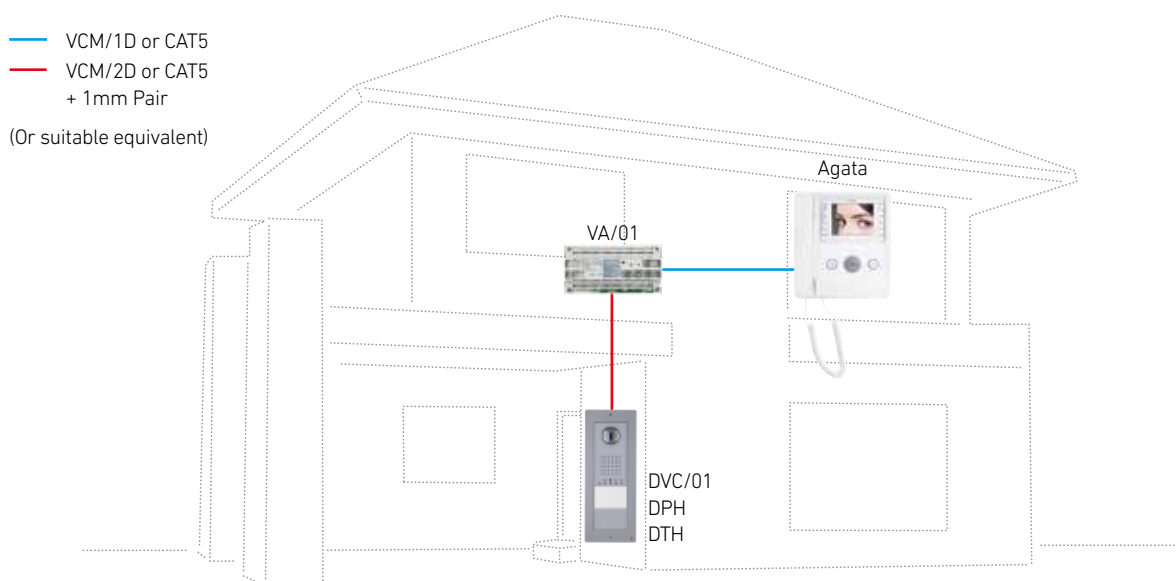
NOTE: The intercom function is a standard feature of the Mithos, Opale, Perla, Agata VC/B receivers.
Using the XDV/304 permits "star" connection of the receivers: it is not necessary to use it if the receivers have a "daisy-chain" connection (max 5).

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EXAMPLE SCHEMATICS

Single House System With Intercom Function

To create a single-home system with intercom function, it is sufficient to connect the receiver directly to the power supply module VA/01 or the entry panel LVC/01. In this case, no supplementary components are required.

SYSTEM WITH LITHOS ENTRY PANEL

— VCM/1D or CAT5
— 1mm Pair

(Or suitable equivalent)

Perla

XDV/304

VAS/101

Agata

VAS/101

LVC/01
DPH

SYSTEM WITH THANGRAM ENTRY PANEL

— VCM/1D or CAT5
— VCM/2D or CAT5
  + 1mm Pair

(Or suitable equivalent)

Perla

VA/01

XDV/304

VAS/101

Opale

DVC/01
DPH
DTH
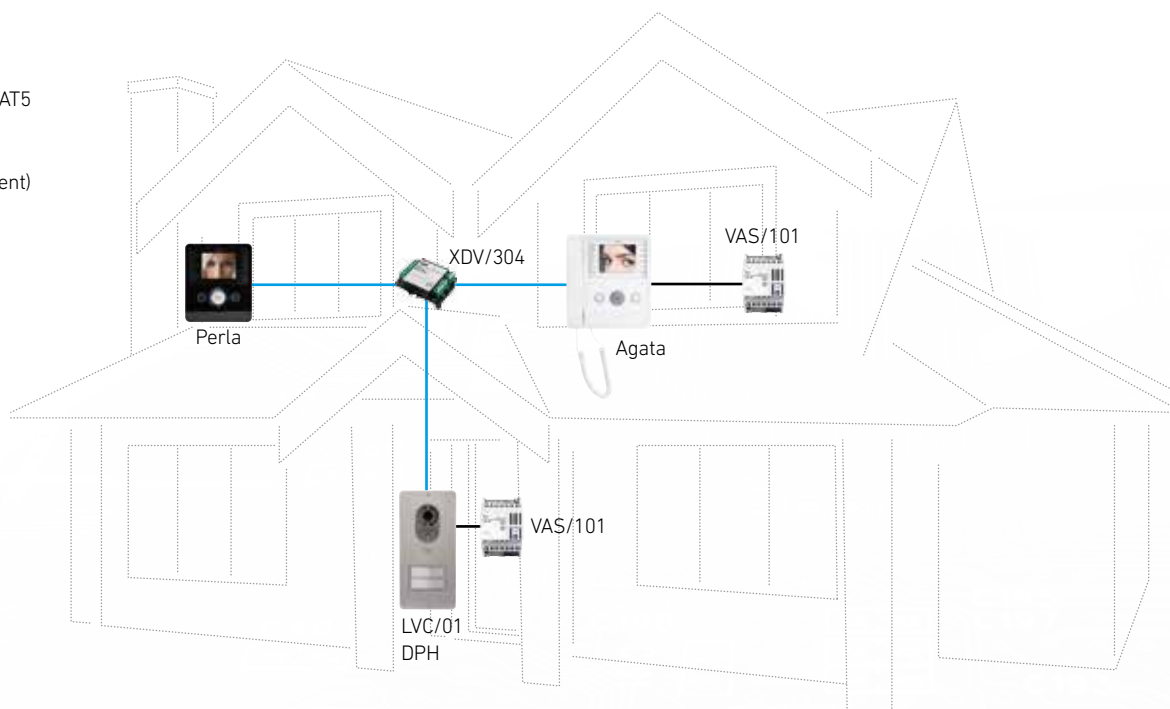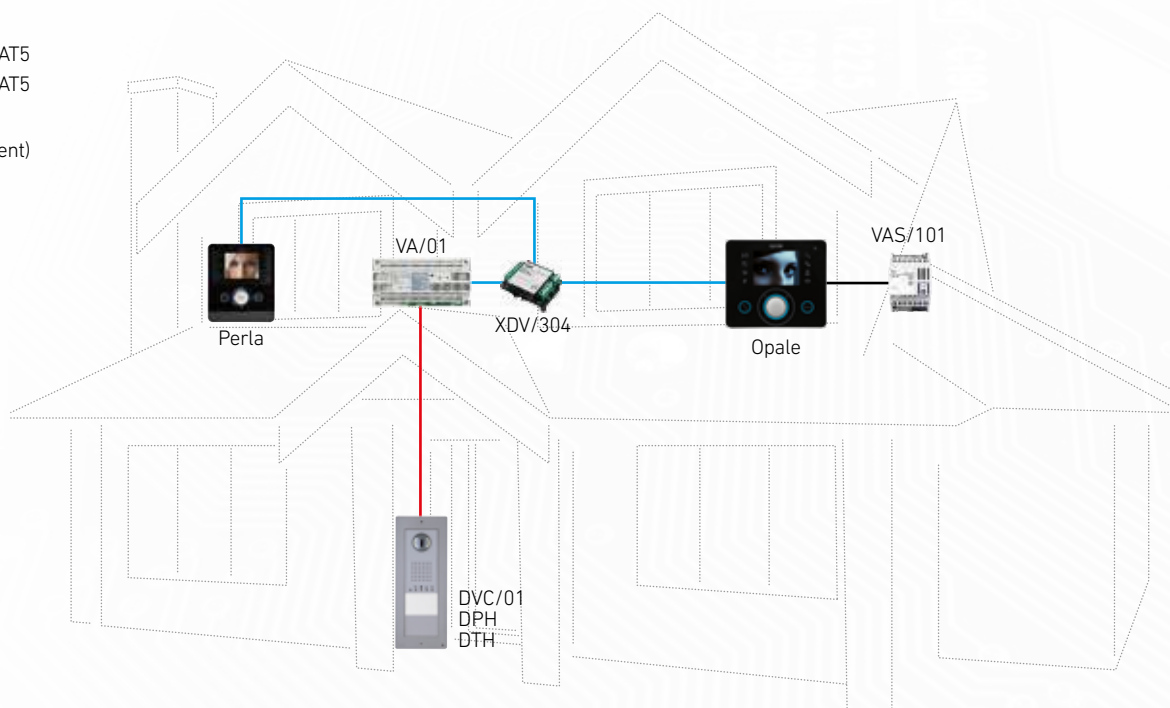
NOTE: Using the XDV/304 permits "star" connection of the receivers: it is not necessary to use it if the receivers have a "daisy-chain" connection (max 5).

EXAMPLE SCHEMATICS

Two-Family House System Without Intercom Function

For a two-family system without intercom, it is sufficient to connect the receivers directly to the power supply module (VA/01) or to the entry panel. In this case, no supplementary components are required.
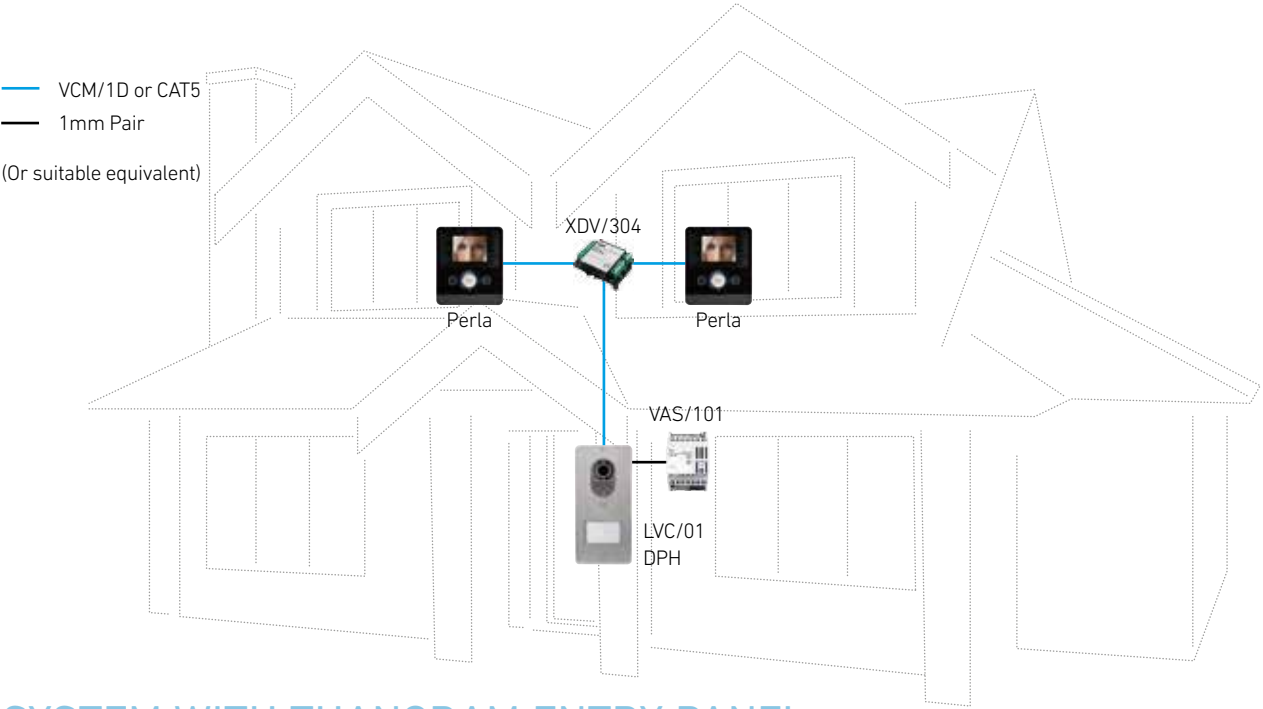
SYSTEM WITH LITHOS ENTRY PANEL

— VCM/1D or CAT5
— 1mm Pair

(Or suitable equivalent)

XDV/304

Perla   Perla

VAS/101

LVC/01
DPH

SYSTEM WITH THANGRAM ENTRY PANEL

— VCM/1D or CAT5
— VCM/2D or CAT5
   + 1mm Pair

(Or suitable equivalent)

VA/01

Perla   XDV/304   Opale

DVC/01
DPH
DTH
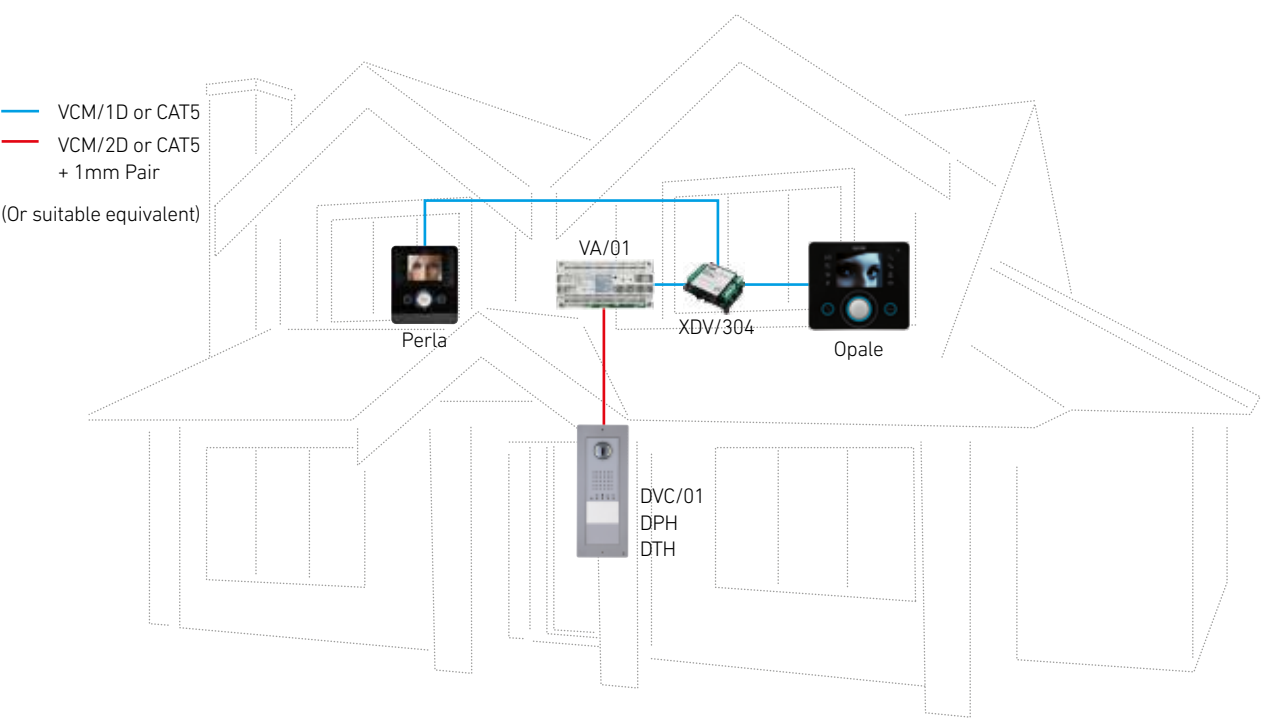
NOTE: The intercom function is a standard feature of the Mitho, Opale, Perla, Agata VC/B receivers.
Using the XDV/304 permits "star" connection of the receivers: it is not necessary to use it if the receivers have a "daisy-chain" connection (max 5).

EXAMPLE SCHEMATICS

Two-House System With Intercom

For a two-family system with 2 intercom groups, it is sufficient to add a VSE/301 selector for each apartment with Thangram system.

SYSTEM WITH LITHOS ENTRY PANEL & AGATA STANDARD RECEIVER

NB: Agata and Perla X1 Monitors offer a Master/ Slave function: The Audio/ Video link will be initially activated on the master receiver only. However, the call can be answered from a slave receiver, where video/ Audio will be tranferred when the call is picked up, or when the camera preview button is pressed.

— VCM/1D or CAT5
— 1mm Pair

(Or suitable equivalent)

Agata

Agata   Agata

XDV/304

Agata

VAS/101

LVC/01
2 x DPS

SYSTEM WITH THANGRAM ENTRY PANEL

— VCM/1D or CAT5
— VCM/2D or CAT5 + 1mm Pair
— 1mm Pair

(Or suitable equivalent)

XDV/304

VSE/301   VSE/301

XDV/304

XDV/304A

Opale

VA/01

Opale   Opale

VAS/101

VAS/101   Opale

Opale

DVC/01
2 x DPS
2 x DTS

NOTE: The XDV/304 using permits the "star" connection of the video receivers: in case it is possible the video receivers "daisy-chain" connection (max 5).

EXAMPLE SCHEMATICS

Multi-Dwelling Unit Residential Block With Single Entrance With Intercom Function

SYSTEM WITH RECEIVER POWERED VIA BUS

To create this type of system, it is necessary to install the entry panel together with one or more additional pushbutton panels, depending on the number of users. A single entry panel with double pushbuttons can serve up to eight lines.

For systems with larger numbers of apartments, a digital call entry panel can be considered to reduce the need for additional entry panels and large numbers for push buttons.

- —— VCM/1D or CAT5
- —— VCM/2D or CAT5 +1mm Pair
- —— 1mm Pair
(Or suitable equivalent)
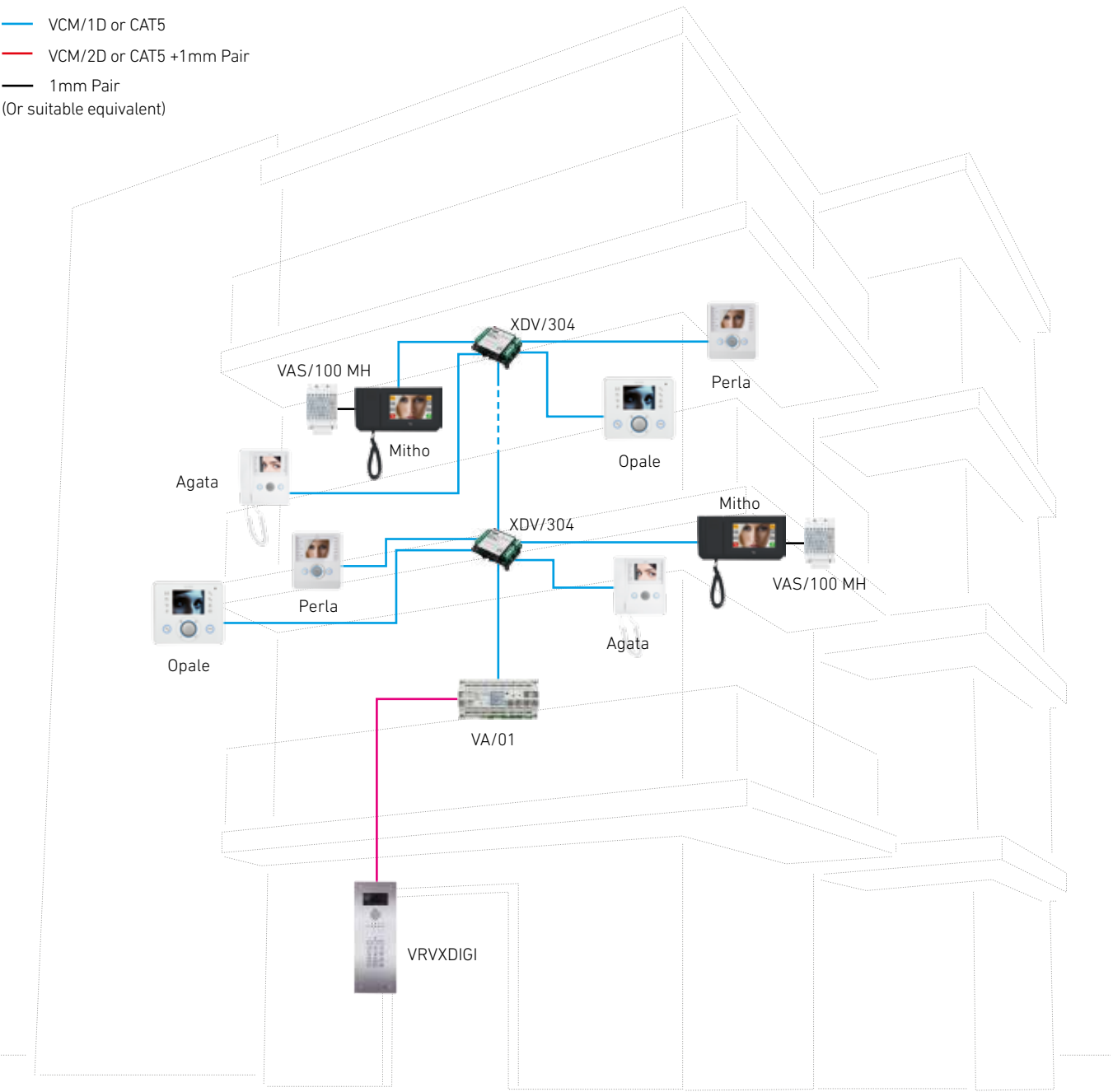
EXAMPLE SCHEMATICS

Multi-Dwelling Unit Residential Block With Multiple Entrances And Porter Switchboard

SYSTEM WITH RECEIVER POWERED VIA BUS

For this type of system, it is necessary to install the entry panels (up to a maximum of three) and to fit one or more additional pushbutton panels depending on the number of lines that are required. For up to eight calls, it is sufficient to install a single video entry panel with double pushbuttons. When a call is entered, the selector built into the power module automatically activates the relative audio/video channel and the door lock actioning signal to/from the calling entry panel, while the other entry panels are set to "busy". A porter switchboard, too, can be installed and programmed at selected times of the day to intercept calls made to the receivers. The porter switchboard can also be used to call the receivers directly and to transfer calls made from the entry panels. For distribution of the signals along the riser and between the riser and the various apartments, it is necessary to utilize XDV/304 video signal distributors. Any of the receivers in our range may be selected for the apartments.

— VCM/1D or CAT5
— VCM/2D or CAT5 +1mm Pair
— 1mm Pair
(Or suitable equivalent)

VAS/100 MH   Mitho

XDV/304

Perla

Futura

Opale

Mitho

Opale

XDV/304

Agata

VAS/100 MH

Perla

XDV/304

VAS/100 MH

Mitho

VA/01

VRVX/DIGI

DVC/01
4 x DPS

DP/0
DPF AL
10 x DPS
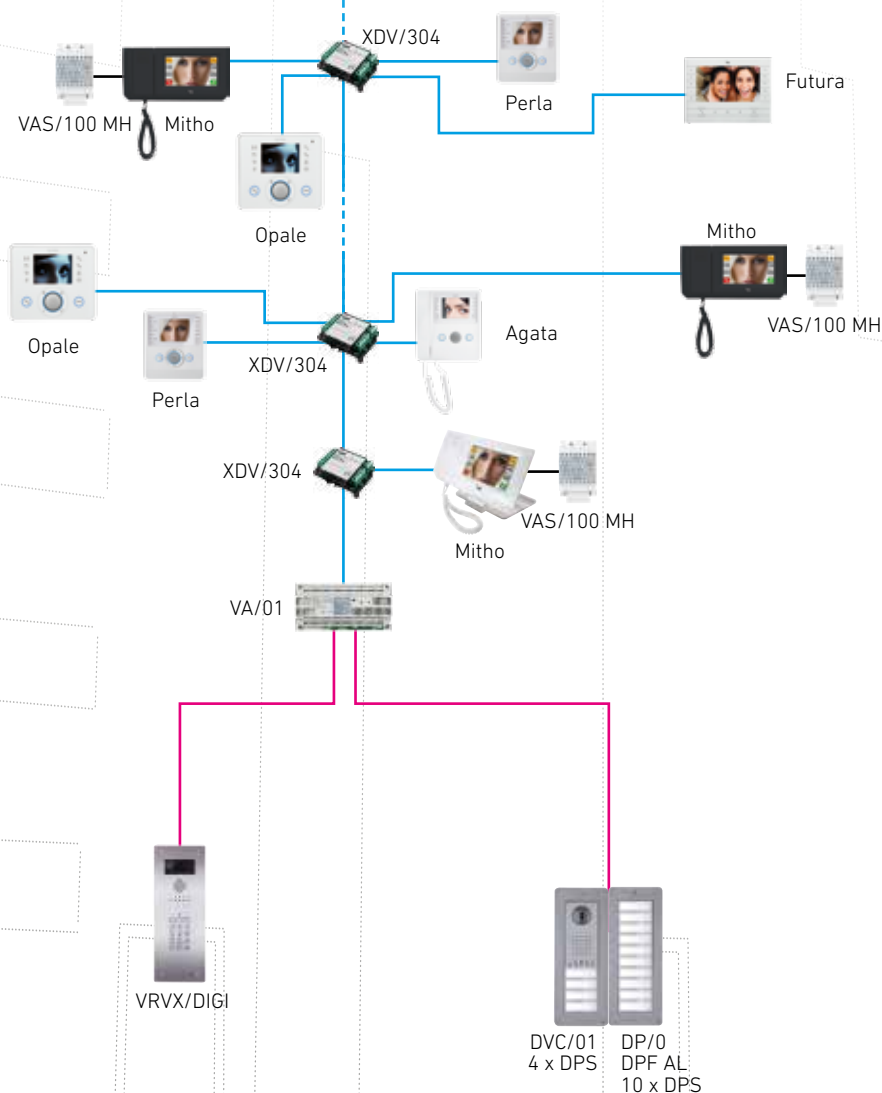
EXAMPLE SCHEMATICS

Multi-Dwelling Unit Residential Block With Multiple Risers And Porter Switchboard

SYSTEM WITH RECEIVER POWERED VIA BUS

For this type of system, it is necessary to install the entry panels (up to a maximum of three) and to fit one or more additional pushbutton panels depending on the number of lines that are required. The XDV/304A amplified video signal distributor distributes the signals towards the various staircases (up to a maximum of four outputs for four risers). A porter switchboard, too, can be installed and programmed at selected times of the day to intercept calls made to the receivers. The porter switchboard can also be used to call the receivers directly and to transfer calls made from the entry panels. Along the riser between the various apartments, it is necessary to utilize XDV/304 video signal distributors. Any of the receivers in our range may be selected for the apartments

VCM/1D or CAT5
VCM/2D or CAT5 +1mm Pair
1mm Pair
(Or suitable equivalent)

Perla
Mitho   VAS/100 MH
Agata
Nova Evo
XDV/304

Mitho
Agata
VAS/100 MH
XDV/304

Mitho
VAS/100 MH
Agata
Opale
Perla
XDV/304

Opale
Nova Evo
XDV/304

XDV/304A

Mitho sb
XDV/304
VAS/100 MH

VA/01

VRVX/DIGI

DVC/01
4 x DPS

DP/0
DPF AL
10 x DPS

DP/0
DPF AL
10 x DPS
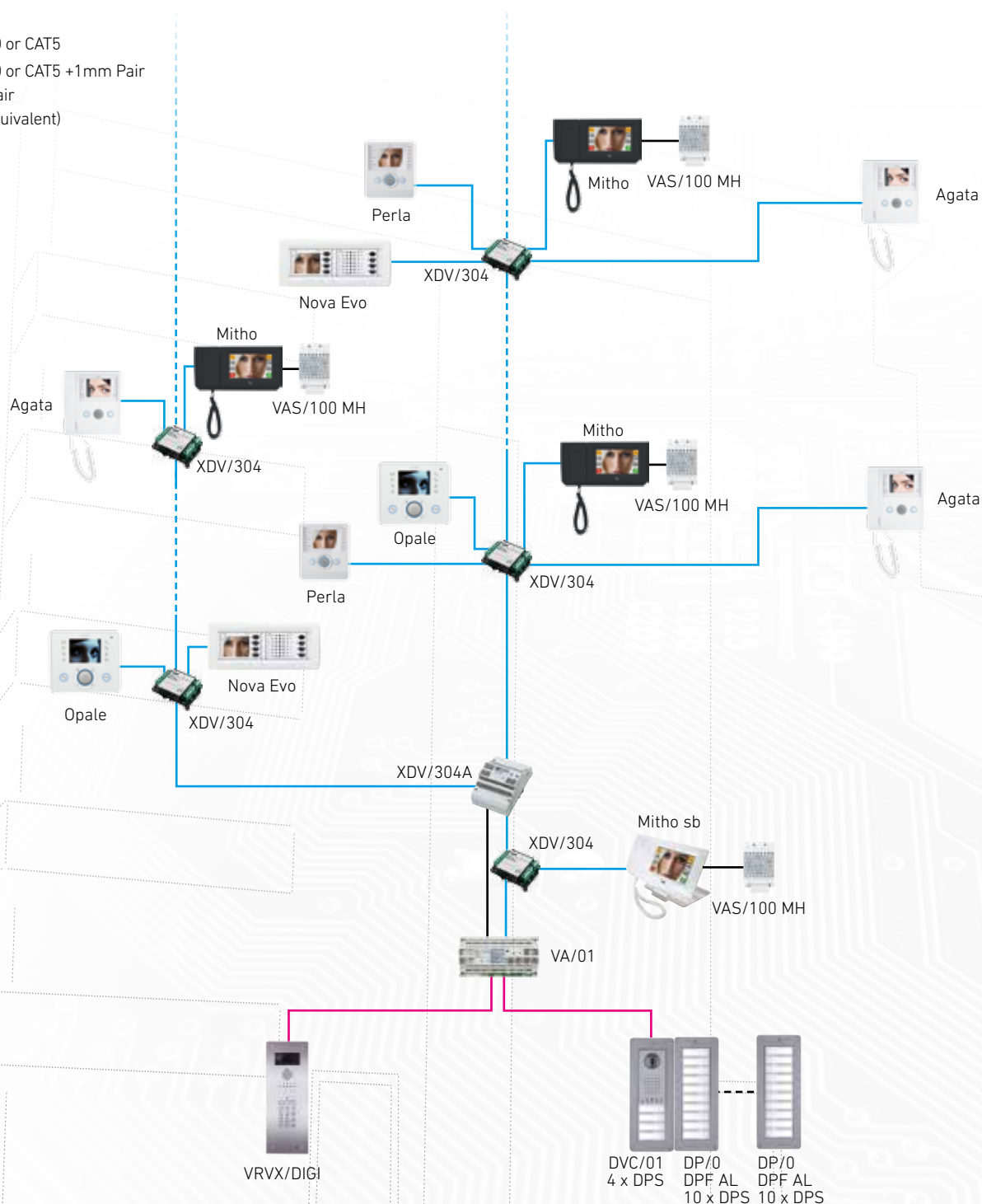
MANUAL PROGRAMMING

X1 is not simply a high-performance system that is simple to install; it is also extremely easy and quick to set up. Thanks to the self-learning function, programming can be carried out rapidly and is not prone to the errors and malfunctions that are typical of traditional systems with numerous jumpers and other configuration devices.

PROGRAMMING WITH SOFTWARE FOR PC

For more complex systems, BPT has developed the PCS/XIP software for PCs. This software features an interface with intuitive graphics that makes programming quick and easy. The software can be used to read the monitor identifiers directly from the bus, to set up the pushbuttons on the entry panels (even if different models are installed) and to associate pushbuttons and receivers automatically.

By simply connecting to the power supply module, it is possible to modify and configure the actioning time for the door lock release, the ring tone, and the system activation time, or to test the lines for correct operation etc. – all directly from the PC.

MANUAL PROGRAMMING

TYPES OF PUSHBUTTONS

1
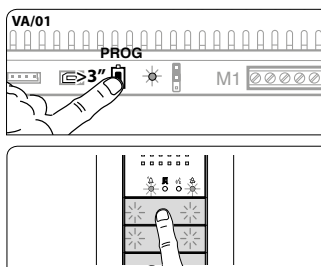
X1 offers great flexibility in the choice of pushbuttons (single, double, double-height) to suit the type of system. It is necessary simply to select programming mode and press the first button on the entry panel. For any other entry panels having the same configuration, no further action is necessary: they will be programmed in the same way as the first. Nothing could be easier!

MATCHING THE PUSHBUTTONS TO THE RECEIVERS

2
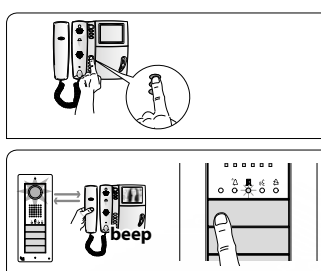
A call button on an entry panel can be associated with the appropriate receiver directly when the connection of the receivers is checked. To do so, simply press the door lock release button and AUX2 on the receiver to activate the audio and video line to the entry panel and press the call button on the entry panel for the receiver to be associated with it. A "beep" will sound to confirm that the link has been programmed. In case of an error, repeat the procedure.

MEMORIZING THE ACCESS BADGES OR CODES

3
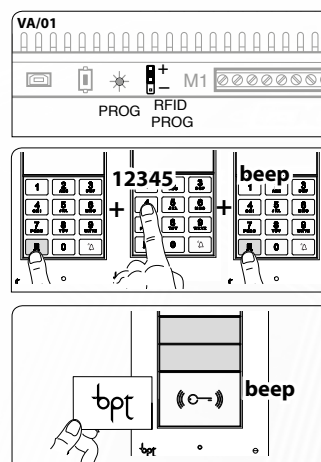
With X1, this operation, too, is incredibly simple.
Simply reposition the jumper on the power supply module to enter programming mode and enter the code using the keypad or position the badge so that it is 'read' by the reader.
In case of modification or misplacement of the codes, the procedure for removal or reprogramming is simple, fast and secure.

PROGRAMMING THE INTERCOM RECEIVERS

4
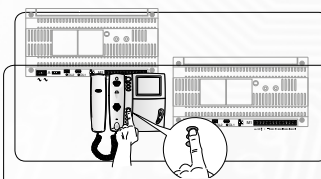
Programming of the intercom receivers is equally simple.
First, set the selector (VSE/301), or the power supply (VA/01), to 'programming' mode. Then, from the intercom receiver, press the call button for the intercom receiver to be connected and wait until three "beeps" sound to confirm the setting.

SYSTEM COMPONENTS

POWER SUPPLY MODULES

Article	Description	Code	List Price
	Video Entry Kit Power Supply Module For Single Entrance X1 Systems. Power supply unit capable of supplying power to receivers directly from the X1 bus with a single twisted pair. It also has a separate output for supplying a single entry panel and accessories that might be added.	VA/301UK	£150.00
	Video Entry System Power Supply Module For X1 Systems. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. VSE/301 integrated intercom selector. Complete circuit board for control of entry panels (18 VDC - 1.1A max) and for control of the video entry system riser (20 VDC - 0.8A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus and terminals for bus connection to 3 entry panels. Open-collector outputs for auxiliary functions (AUX1 and AUX2). RS232 serial ports (for future functions) and mini USB for programming from PC (with LED indicators for 'connection' and 'data being transferred'). Manual system programming button with indicator LED. Jumper for access to programming of access control devices (cards and keys). Powered by mains circuit 230 VAC 50/60 Hz.	VA/01	£262.50
	Audio Entry System And/Or Supplementary Power Module For X1/Xip Systems. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 4 low-profile DIN modules. Protection rating IP30. Complete circuit board for power supply to entry panels and receivers (18 VDC - 1A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus. Fitted with terminals for connection of the device power supply modules. Powered by mains circuit 230 VAC 50/60 Hz.	VAS/101	£77.50
	Audio Entry System And/Or Supplementary Power Module For X1/Xip Systems. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Electronic circuit-breaker for protection against overloads/short-circuits. Complete with output terminals for power supply to devices (17.5 VDC - 1.7A max). Powered by mains circuit 230 VAC 50/60 Hz. If used as the only power supply module for the system, RFID and DNA modules can not be used for access control.	VAS/100.30	£90.00
	Power Supply Module/Repeater For Audio, Video And Data Signals. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. Complete circuit board for device control (20 VDC - 0.8 A max). Electronic circuit-breaker for protection against overloads/short-circuits. Complete with terminals for control of IN and OUT bus and 9 switch for compensation of signal according to distance. 2 LEDs for confirmation of connection and data transfer. Potentiometers for compensation of audio volume to and from the receiver. Powered by mains circuit 230 VAC 50/60 Hz.	XAS/301	£239.63

VIDEO SIGNAL DISTRIBUTORS

Article	Description	Code	List Price
	4-Output Video Signal Distributor. Miniaturized housing for installation in junction boxes (dimensions 60x44x16 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with 8 input terminals for 4 twisted pairs from the receivers and 4 terminals for IN/OUT connection from the riser. Line impedance closure jumper for each output. Passive device (power not needed).	XDV/304	£45.00
	4-Output Video Signal Distributor, Amplified. Plastic housing for installation in electrical control panels (EN50022). Dimensions 4 low-profile DIN modules. Protection rating IP30. Complete with 8 input terminals for 4 twisted pairs from the receivers and 4 terminals for IN/OUT connection from the riser. Line impedance closure jumper for each output. Requires power supply (14 - 18 VDC, 60 mA).	XDV/304A	£130.00

SELECTORS

Article	Description	Code	List Price
	Intercom Function Selector For X1/Xip Systems. Plastic housing for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Complete with 4 terminals for IN/OUT to the bus line, as well as two switch for access to programming and resetting of the data stored in memory. Powered by mains circuit 230 VAC 50/60 Hz.	VSE/301	£171.25
	Manual Cyclic Selector For Cctv For X1 Systems. Miniaturized housing for installation in junction boxes (dimensions 85.5x60x21 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with 8 input terminals for video signal from 4 standard B&W or colour video cameras (standard CCIR/EIA or PAL/NTSC) and three switches for programming of the number of video cameras connected. Key for access to programming mode. 7 LEDs indicating "video camera connected" and programming/data status. Power supply module 12 VDC 0.09A max.	VSC/01	£141.25

PORTER SWITCHBOARD

Article	Description	Code	List Price
	Table-Top Porter Switchboard Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Fusion Black.	MITHO SB NF	£918.75
	Table-Top Porter Switchboard Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Ice White.	MITHO SB BI	£918.75

OTHER COMPONENTS

Article	Description	Code	List Price
	Relay Unit Double pole, double throw clean contact relay, with two outputs and a 2 Amp rating per output (@24vDC).	R/1	£20.24
	Relay Unit For Auxiliary Devices (Lights, Apertures, Acoustic Alarms Etc.). Plastic housing for installation in electrical control panels (EN50022), dimensions 4 low-profile DIN modules. Protection rating IP30. The unit features two relays with a switching contact, switching power 2A resistive (1A inductive) at a maximum voltage of 250 VAC (excitation coil with power supply 10/14 VAC or 14/18 VDC - 50 mA). The two relays are associated by default to the door aperture and AUX2 commands. The unit also features 6 switch for programming of the command, one potentiometer for regulation of the activation time of relay 1 (door aperture) and one LED indicating the data reception status on the BUS line.	VLS/300	£62.50
	Relay Unit For Auxiliary Devices (Lights, Apertures, Acoustic Alarms Etc.). Miniaturized plastic housing for installation in junction boxes (dimensions 60x44x16 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with IN/OUT terminals for video signal and two switches for compensation of the signals for the method of connection. Power supply directly from X1 bus, absorption 20 mA max.	XDV/300A	£61.25

SYSTEM COMPONENTS

CONNECTOR CABLES

Article	Description	Code	List Price
	Cable With 1mm2 Twisted Pair. PVC insulating sheath, diameter 7 mm, colour RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colour: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment). Supplied in 100m coils or cut lengths by the metre	VCM/1D or VCM/1DCUT (per meter)	£96.25 (100m drum) £1.07 (per meter)
	Cable With Two 0.28 Mm2 Twisted Pairs And Two 1mm2 Wires. PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment), CEI 20-11 (latest amendment), CEI 20-37.Supplied in 100m coils or cut lengths by the metre	VCM/2D or VCM/2DCUT	£165.00 (100m drum) £1.75 (per meter)

SYSTEM 200:
FLEXIBLE AND COST EFFECTIVE

The outstanding feature of the BPT System 200 is its great versatility. With just 5 wires + coaxial cable (or twisted pair) for connecting video receivers, a whole series of additional functions are available for improved system performance.

With a wide range of entry panels and receivers to choose from, System 200 will meet the demands of most applications where price and functionality are key.

Performance & Technical Data

MULTI WIRED 200

INTERCOM FUNCTIONALITY

SELF-CONNECTION & SEQUENTIAL SWITCHING BETWEEN CAMERAS

ENTRY PANEL PREVIEW

FLEXIBLE CABLE REQUIREMENTS

DOOR LOCK RELEASE WITH ENTRANCE SELECTION

CONVERSATION & VIDEO PRIVACY

DIFFERENT ACCESS CODES

BPT CABLES

The 200 system by BPT guarantees excellent performance and signal quality on a variety of cable types. Unlike many other technologies, System 200 operates on direct current, which removes the issue of noise on the audio line usually associated with the use of alternating current. For video systems, high specification VCM/60 and VCM/130 custom cable from Bpt is available to optimise system performance.
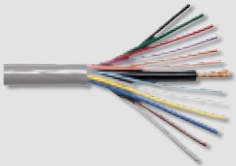
VCM/60 VIDEO CABLE by BPT (Optimum Performance)

Cable comprising Multi Core (5 x Cores and Co-axial)
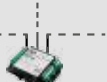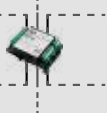
		COLOUR OF WIRE	THICKNESS	TYPE OF CABLE
VCM/60		Green	1.00 mm^2	Power supply
		Red	1.00 mm^2	
		Purple	0.5 mm^2	Audio & Data
		Pink	0.5 mm^2	
		Light Blue	0.5 mm^2	
		Co-Axial	RG59	Video

VCM/130 CABLE by BPT (Optimum Performance)

Cable comprising Multi Core (12 x Cores and Co-axial)

		COLOUR OF WIRE	THICKNESS	TYPE OF CABLE
VCM/130		Blue	1.50 mm^2	Power and lock releases
		Brown	1.00 mm^2	
		Grey	1.00 mm^2	
		Black	1.00 mm^2	
		Green	1.00 mm^2	
		Yellow	1.00 mm^2	
		Red	0.75 mm^2	
		Purple	0.50 mm^2	Audio & commands
		Orange	0.50 mm^2	
		Pink	0.50 mm^2	
		Light Blue	0.50 mm^2	
		White	0.50 mm^2	
		Co-Axial	RG59	Video

RECOMMENDED WIRES FOR EACH TYPE OF CONNECTION

TYPE OF CONNECTION		RECOMMENDED WIRE
Connection between entry panels and power supply modules NB: Up to 10 entry panels can be used per system using SI/200 or VSI/200 units	VA/200 or A/200 HSC/1ST and HSV/1ST	**Audio Systems** • 8 Cores + n (call lines)
		Video Systems • VCM/130 • 12 Cores + n (call lines) + Co-axial
Distribution in riser. NB: No specialist distribution unit is required for audio systems	VAV/400P VDX/400 (FOR TWISTED PAIR VIDEO DISTRIBUTION)	**Audio Systems** • 4 Cores + n (call lines)
		Video Systems • VCM/60 • 5 Cores + n (call lines) + Co-axial

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DISTANCES

The 200 system by BPT guarantees excellent performance and signal quality on a variety of cable types. Distances shown are the same for all entry panels and monitors types and represent expected working capability.

For systems using alternative specification cables, expected working distance may be less than shown. (dependent on situation)

STANDARD AUDIO SYSTEM
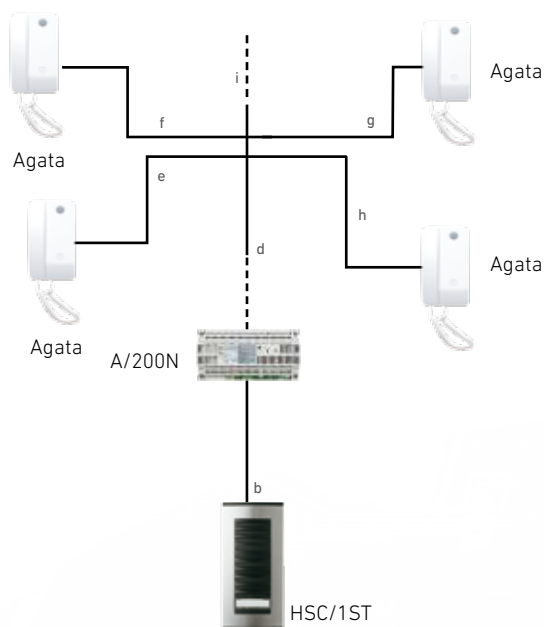
	MAXIMUM DISTANCE
[entry panel] ↔ m ↔ [monitor]	250
A/200N ↔ m ↔ [monitor]	100
Q=Tot amount of cable run*	2000

(*)The total length of the cable to be laid is based on the connections between the power supply and all the internal receivers + the longest branch (a, b or c) between the power supply module and the entry panel.

Total length of cable=(a) or (b) or (c)+d+e+f+g+h+i+...

STANDARD VIDEO SYSTEM
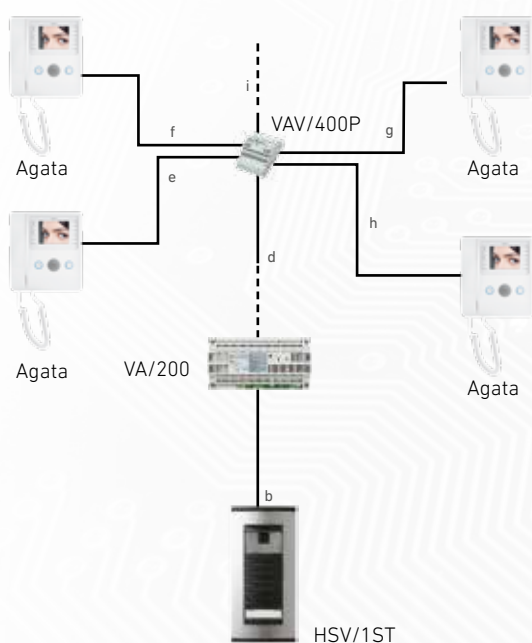
	MAX. DIST. VCM/130
[entry panel] ↔ m ↔ [monitor]	250

	VCM/60
VA/200 ↔ m ↔ [monitor]	100
Q=Tot amount of cable run*	2000

(*)The total length of the cable to be laid is based on the connections between the power supply and all the internal receivers + the longest branch (a, b or c) between the power supply module and the entry panel.

Total length of cable=(a) or (b) or (c)+d+e+f+g+h+i+...

SYSTEM COMPONENTS

POWER SUPPLY MODULES

Article	Description	Code	List Price
	Supply Voltage: 230V 50/60 Hz. **Self-Resetting Electric Safety Switch.** Rated power: 60VA. Output voltages:17.5V DC stabilised (0.9A for continuous service and 0.6A for intermittent service) for monitor, entry panel and accessories.12V DC stabilised (400mA for continuous service) 12V DC (0.5A for intermittent service) for electrical door lock. Two differential call note generators, controlling up to 3 internal units. Installation activation time 30 secs. If the handset is lifted during this interval, the activation time is extended by 30 to a maximum of 90 secs. (adjustable). • Electrical door lock activation time with time interval adjustment of 1 to 15 secs. Compatible with both direct and alternate current-operated electrical door lock (12V DC, AC, 1A). • Stair light actuator output: type VLS/101. • Working temperature range: from 0 °C to +35 °C. Dimensions: 12 DIN units, low profile module,	VA/200.01	£301.25
	Audio Entry Power Supply And Control Module For System 200 Plastic housing Protection rating IP30. 4 DIN low profile module Clean contact output relay. Differential call note option. Output for stair light control actuator. 12v DC input for battery power. Power supply 230v, 50Hz, 15VA. Output Voltage 11V DC, stabilised 150mA (300mA peak). 14V AC, 650mA (1A intermittent current)	A/200N	£78.75
	Supplementary Power Module Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Electronic circuit-breaker for protection against overloads/short-circuits. Complete with output terminals for power supply to devices (17.5 VDC - 1.7A max). Powered by mains circuit 230 VAC 50/60 Hz. If used as the only power supply module for the system, RFID and DNA modules can not be used for access control.	VAS/100.30	£90.00

CONNECTOR CABLES

Article	Description	Code	List Price
	4 Output co-axial distributor for system 200 Video Wall mounted, Dimensions 195x105x42 mm Can be installed on DIN rail	VAV/400P	£63.75
	Miniature 4 Output Twisted Pair Distributor For System 200 Video Systems Wall mounted, Dimensions 60x44x16 mm Can be installed on DIN rail	VDX/400	£41.25

SELECTORS

Article	Description	Code	List Price
	Audio Entrance Selector For System 200 Plastic housing Protection rating IP30. 8 DIN low profile module Switchable dual entrance unit Power supply: 11V DC Current demand: 50mA	SI/200	£95.00
	Video Entrance Selector For System 200 Plastic housing Protection rating IP30. 12 DIN low profile module Switchable dual entrance unit Power supply: 14.5 / 17.5V DC or 12V DC Current demand: 80mA	VSI/200	£182.50

AUDIO & VIDEO MODULES

Article	Description	Code	List Price
	Audio Module For System 200 Entry Panels Two potentiometers to adjust entry panel volume and receiver volume. Operation between -15 to +50 degrees. .	HA/200	£27.50
	Video/Audio Module For System 200 Entry Panels The module comes complete with - CCD camera with ± 11° manual adjustment, with fixed-focus lens. Infrared or white LEDs for lighting. Two potentiometers to adjust entry panel volume and receiver volume. 380 Lines resolution, 1 vpp or balanced transmission. Operation between -15 to +50 degrees.	HAV/200 (Mono) HAVC/200 (Colour)	HAV/200 £405.00 HAVC/200 £493.75

OTHER COMPONENTS

Article	Description	Code	List Price
	Relay Unit Double pole, double throw clean contact relay, with two outputs and a 2 Amp rating per output (@24vDC).	R/1	£20.24
	Telephone Interface (PSTN) Plastic housing Protection rating IP30. 8 DIN low profile module Used to interface an audio call onto a telephone handset	IT/200	£201.25

X-AIR:
MOBILE & TABLET ENTRY SYSTEM

Compatible with Android or Apple devices, X-Air takes video entry to the next level of innovation. Exceptional quality images and audio are transmitted directly to your tablet or smart phone, allowing two way conversation and door release functions

Video calls can be transferred between devices, remote cameras can be viewed, in fact, all the functions you would expect from a standard monitor are at your fingertips. Using a standard wireless router, the X-Air apps work on their own or side by side with traditional hard wired monitors to give the ultimate flexibility. Standard X-Air kits can call up to 3 individual smart devices as well as any number of BPT monitors and are compatible with the entire BPT range.

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Performance & Technical Data

X air ENTRY
UP TO 3 DEVICES
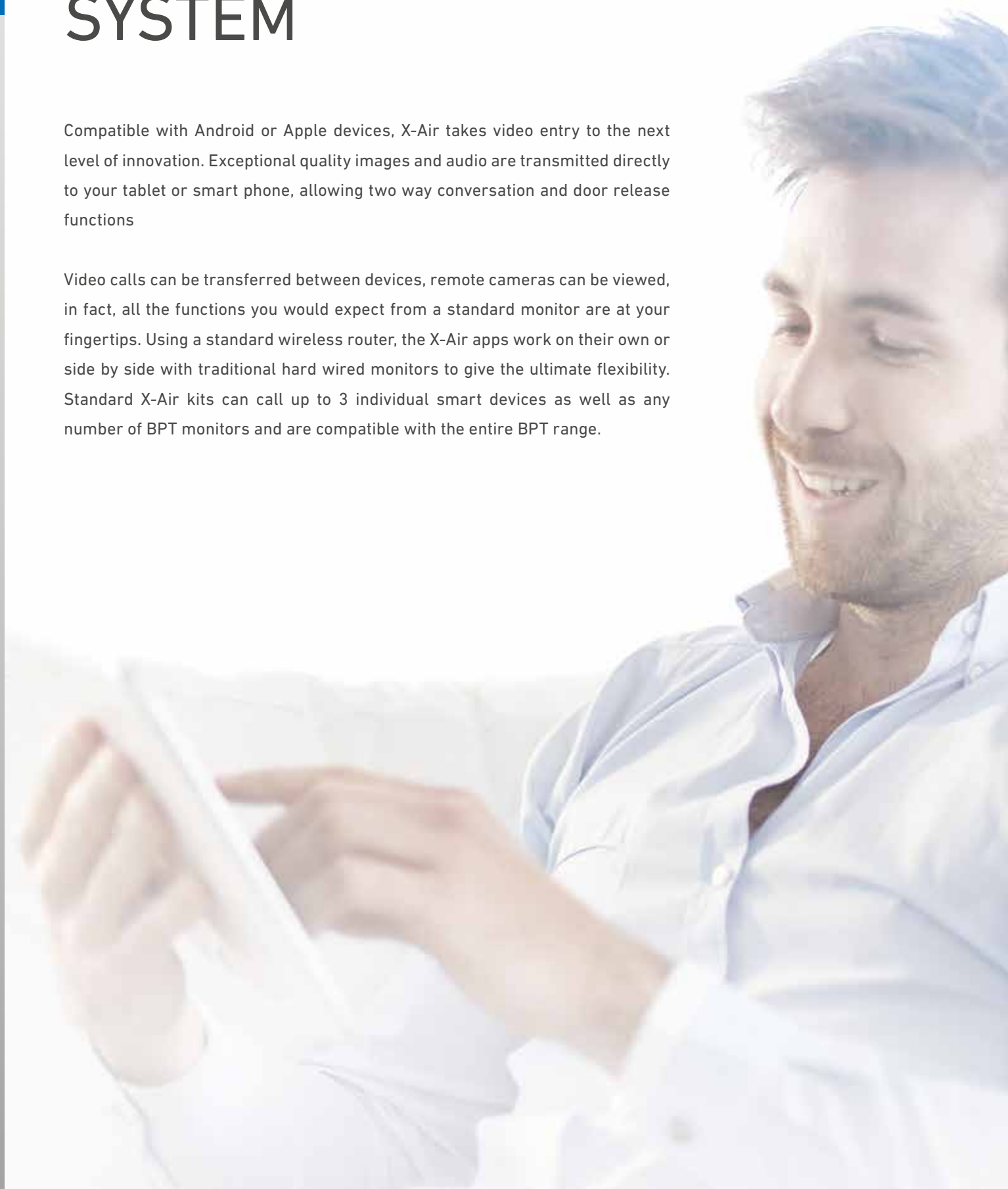
EASY TO
BUY KITS

FAST
INSTALLATION

WORKS WITH UP TO 3 DEVICES
INSIDE THE ACCOMMODATION

EXPANDABLE IP
INTERCOM

WIFI
COMPATIBLE

KIT INCLUDES ENTRY
PANEL X1 MONITOR

Performance & Technical Data

X air PLUS
UP TO 10 DEVICES

WIFI
COMPATIBLE

COMPATIBLE WITH APPLE &
ANDROID DEVICES

FAST
INSTALLATION

ENTRY PANEL
PREVIEW

CONVERSATION &
VIDEO PRIVACY

CRESTRON COMPATIBLE

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Xair ENTRY

UP TO 3 DEVICES

- Easy to buy kits
- Kit includes 1 fixed monitor as standard
- 3 device licenses included in standard kit
- Non expandable and not AV compatible
- IP intercom

(For >3 devices or AV integration, please see X-AIR PLUS+ overleaf)

X-AIR is BPT's all new XIP app that allows residents entry control from the comfort of their sofa. A hard wired door entry panel and monitor system couples with an XIP system, the LAN (local area network) and X-AIR to provide wireless devices the capabilities to control entry.

X-AIR ENTRY KITS

SYSTEM TYPE

compatible: iOS android

UP TO 3 DEVICES

THANGRAM PANEL

Thangram is a modular entry panel, and the only model that offers such superlative quality video. The entry panels in the Thangram range are distinctive for their attractive, innovative styling, ultra-slim design, unparalleled performance and the possibility of creating any type of entry panel by combining just 7 modules. A new generation of entry panels that are both beautiful and sophisticated.

• 25mm in thickness
• IP54 rated buttons

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)		FUTURA X1 WHITE	
-		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)		FUTURA X1 BLACK	

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XTBAG	£2,068.75
	PERLA BLACK	XTBPB	£2,108.75
	PERLA WHITE	XTBPW	£2,108.75
	OPALE WHITE	XTBOW	£2,181.25
	OPALE WHITE (WIDE)	XTBOWW	£2,318.75
	OPALE BLACK	XTBOB	£2,181.25
	OPALE BLACK (WIDE)	XTBOBW	£2,318.75
	FUTURA X1 WHITE	XTBFW	£2,212.50
	FUTURA X1 BLACK	XTBFB	£2,212.50

COMPLETE KIT INCLUDES

• DVC/08KME
• Required Monitor (see table above)
• DPH
• DTH ME
• DSI
• DCI
• DPF NF
• VA/08K
• ETI/XIP APP
• R/1

3 DEVICE LICENSES INCLUDED

Panel	Monitor	Code	List Price
	AGATA VC	XTBKAG	£2,540.00
	PERLA BLACK	XTBKPB	£2,580.00
	PERLA WHITE	XTBKPW	£2,580.00
	OPALE WHITE	XTBKOW	£2,652.50
	OPALE WHITE (WIDE)	XTBKOWW	£2,790.00
	OPALE BLACK	XTBKOB	£2,652.50
	OPALE BLACK (WIDE)	XTBKOBW	£2,790.00
	FUTURA X1 WHITE	XTBKFW	£2,680.00
	FUTURA X1 BLACK	XTBKFB	£2,680.00

• DVC/08KME
• Required Monitor (see table above)
• DPH
• DTH ME
• DSI
• DCI
• DPF NF
• VA/08K
• ETI/XIP APP
• R/1
• PCS/XIP

3 DEVICE LICENSES INCLUDED

X-AIR ENTRY KITS

SYSTEM TYPE

compatible:

iOS
ANDROID

VANDAL RESISTANT ENTRY PANEL

The vandal resistant entry panel range is manufactured in the UK to the highest standards. Any number of buttons can be used in either video or audio panel styles with coded keypads, proximity window or name windows if required. Surface or flush mounted, they are the last word in hard wearing, durable entry panel design. As well as a standard range, custom sizes can also be manufactured to suit any application.

- Brushed stainless steel construction
- IP54 rated buttons
- Makralon windows
- Steel grilles

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)		FUTURA X1 WHITE	
–		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)		FUTURA X1 BLACK	

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XVRAG	£2,105.00
	PERLA BLACK	XVRPB	£2,145.00
	PERLA WHITE	XVRPW	£2,145.00
	OPALE WHITE	XVROW	£2,217.50
	OPALE WHITE (WIDE)	XVROWW	£2,355.00
	OPALE BLACK	XVROB	£2,217.50
	OPALE BLACK (WIDE)	XVROBW	£2,355.00
	FUTURA X2 WHITE	XVRFW	£2,248.75
	FUTURA X2 BLACK	XVRFB	£2,248.75

COMPLETE KIT INCLUDES

- VRVX/1
- Required Monitor (see table above)
- VRSH/1
- DMVC/08K
- VA/08K
- ETI/XIP APP
- R/1

3 DEVICE LICENSES INCLUDED

Panel	Monitor	Code	List Price
	AGATA VC	XVRKAG	£2,585.00
	PERLA BLACK	XVRKPB	£2,625.00
	PERLA WHITE	XVRKPW	£2,625.00
	OPALE WHITE	XVRKOW	£2,697.50
	OPALE WHITE (WIDE)	XVRKOWW	£2,835.00
	OPALE BLACK	XVRKOB	£2,697.50
	OPALE BLACK (WIDE)	XVRKOBW	£2,835.00
	FUTURA X1 WHITE	XVRKFW	£2,728.75
	FUTURA X1 BLACK	XVRKFB	£2,728.75

- VRVKX/1
- Required Monitor (see table above)
- VRSH/2
- DMVC/08K
- VA/08K
- ETI/XIP APP
- R/1
- PCS/XIP

3 DEVICE LICENSES INCLUDED

bpt

X-AIR ENTRY KITS

SYSTEM TYPE

compatible: iOS / android

UP TO 3 DEVICES

SATIN BLACK ENTRY PANEL

The vandal resistant entry panel range is manufactured in the UK to the highest standards. Any number of buttons can be used in either video or audio panel styles with coded keypads, proximity window or name windows if required. Surface or flush mounted, they are the last word in hard wearing, durable entry panel design. As well as a standard range, custom sizes can also be manufactured to suit any application.

- Coated stainless steel construction
- IP54 rated buttons
- Makralon windows
- Steel grilles

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)		FUTURA X1 WHITE	
-		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)		FUTURA X1 BLACK	

• X-AIR has the ability to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XBLAG	£2,131.25
	PERLA BLACK	XBLPB	£2,171.25
	PERLA WHITE	XBLPW	£2,171.25
	OPALE WHITE	XBLOW	£2,243.75
	OPALE WHITE (WIDE)	XBLOWW	£2,381.25
	OPALE BLACK	XBLOB	£2,243.75
	OPALE BLACK (WIDE)	XBLOBW	£2,381.25
	FUTURA X1 WHITE	XBLFW	£2,275.00
	FUTURA X1 BLACK	XBLFB	£2,275.00

Panel	Monitor	Code	List Price
	AGATA VC	XBLKAG	£2,617.50
	PERLA BLACK	XBLKPB	£2,657.50
	PERLA WHITE	XBLKPW	£2,657.50
	OPALE WHITE	XBLKOW	£2,730.00
	OPALE WHITE (WIDE)	XBLKOWW	£2,867.50
	OPALE BLACK	XBLKOB	£2,730.00
	OPALE BLACK (WIDE)	XBLKOBW	£2,867.50
	FUTURA X1 WHITE	XBLKFW	£2,761.25
	FUTURA X1 BLACK	XBLKFB	£2,761.25

COMPLETE KIT INCLUDES

- BLVX/1
- Required Monitor (see table above)
- BLSH/1
- DMVC/08K
- VA/08K
- ETI/XIP APP
- R/1

3 DEVICE LICENSES INCLUDED

- BLVKX/1
- Required Monitor (see table above)
- BLSH/2
- DMVC/08K VA/08K
- ETI/XIP APP
- R/1
- PCS/XIP

3 DEVICE LICENSES INCLUDED

X-AIR ENTRY KITS

SYSTEM TYPE

compatible:

HIGHLY POLISHED ENTRY PANEL

The vandal resistant entry panel range is manufactured in the UK to the highest standards. Any number of buttons can be used in either video or audio panel styles with coded keypads, proximity window or name windows if required. Surface or flush mounted, they are the last word in hard wearing, durable entry panel design. As well as a standard range, custom sizes can also be manufactured to suit any application.

- Polished stainless steel construction
- IP54 rated buttons
- Makralon windows
- Steel grilles

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)		FUTURA X1 WHITE	
–		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)		FUTURA X1 BLACK	

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XHPAG	£2,241.25
	PERLA BLACK	XHPPB	£2,281.25
	PERLA WHITE	XHPPW	£2,281.25
	OPALE WHITE	XHPOW	£2,353.75
	OPALE WHITE (WIDE)	XHPOWW	£2,491.25
	OPALE BLACK	XHPOB	£2,353.75
	OPALE BLACK (WIDE)	XHPOBW	£2,491.25
	FUTURA X1 WHITE	XHPFW	£2,385.00
	FUTURA X1 BLACK	XHPFB	£2,385.00

Panel	Monitor	Code	List Price
	AGATA VC	XHPKAG	£2,717.50
	PERLA BLACK	XHPKPB	£2,757.50
	PERLA WHITE	XHPKPW	£2,757.50
	OPALE WHITE	XHPKOW	£2,830.00
	OPALE WHITE (WIDE)	XHPKOWW	£2,967.50
	OPALE BLACK	XHPKOB	£2,830.00
	OPALE BLACK (WIDE)	XHPKOBW	£2,967.50
	FUTURA X1 WHITE	XHPKFW	£2,861.25
	FUTURA X1 BLACK	XHPKFB	£2,861.25

COMPLETE KIT INCLUDES

- HPVX/1
- Required Monitor (see table above)
- HPSH/1
- DMVC/08K
- VA/08K
- ETI/XIP APP
- R/1

3 DEVICE LICENSES INCLUDED

- HPVKX/1
- Required Monitor (see table above)
- HPSH/2
- DMVC/08KP
- VA/08K
- ETI/XIP APP
- R/1
- PCS/XIP

3 DEVICE LICENSES INCLUDED

bpt

X-AIR ENTRY KITS

SYSTEM TYPE

compatible:
iOS
android

CLASSIC BRASS ENTRY PANEL

The classic brass entry panel range is manufactured in the UK to the highest standards. Any number of buttons can be used in either video or audio styles with coded keypads, proximity window or name windows if required. Surface or Flush mounted, the solid unlaquered brass place is a stylish option for a more classic finish. As well as the standard range custom sizes can be manufactured to suit any application.

- Solid Brass construction (un laquered)
- IP54 rated buttons
- Makralon windows
- Steel grilles

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)	FUTURA X1 WHITE
-		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)	FUTURA X1 BLACK

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XBRAG	£2,261.25
	PERLA BLACK	XBRPB	£2,301.25
	PERLA WHITE	XBRPW	£2,301.25
	OPALE WHITE	XBROW	£2,373.75
	OPALE WHITE (WIDE)	XBROWW	£2,511.25
	OPALE BLACK	XBROB	£2,373.75
	OPALE BLACK (WIDE)	XBROBW	£2,511.25
	FUTURA X1 WHITE	XBRFW	£2,406.25
	FUTURA X1 BLACK	XBRFB	£2,406.25

Panel	Monitor	Code	List Price
	AGATA VC	XBRKAG	£2,688.75
	PERLA BLACK	XBRKPB	£2,728.75
	PERLA WHITE	XBRKPW	£2,728.75
	OPALE WHITE	XBRKOW	£2,801.25
	OPALE WHITE (WIDE)	XBRKOWW	£2,938.75
	OPALE BLACK	XBRKOB	£2,801.25
	OPALE BLACK (WIDE)	XBRKOBW	£2,938.75
	FUTURA X1 WHITE	XBRKFW	£2,832.50
	FUTURA X1 BLACK	XBRKFB	£2,832.50

COMPLETE KIT INCLUDES

- BRVX/1
- Required Monitor (see table above)
- BRSH/1
- DMVC/08K
- VA/08K
- ETI/XIP APP
- R/1

3 DEVICE LICENSES INCLUDED

- BRVKX/1
- Required Monitor (see table above)
- BRSH/2
- DMVC/08K
- VA/08K
- ETI/XIP APP
- R/1
- PCS/XIP

3 DEVICE LICENSES INCLUDED

Xair PLUS

UP TO 10 DEVICES

- Easy to buy kits
- Kit includes 1 fixed monitor as standard
- Crestron and third party compatible
- 6 device licenses included in standard kit
- Expandable up to 10 devices maximum
- IP intercom

X-AIR is BPT's all new XIP app that allows residents entry control from the comfort of their sofa. A hard wired door entry panel and monitor system couples with an XIP system, the LAN (local area network) and X-AIR to provide wireless devices the capabilities to control entry.

X-AIR PLUS+ KITS

SYSTEM TYPE

Xair PLUS+
UP TO 10 DEVICES

compatible:
iOS
android

THANGRAM ENTRY PANEL

Thangram is a modular entry panel, and the only model that offers such superlative quality video. The entry panels in the Thangram range are distinctive for their attractive, innovative styling, ultra-slim design, unparalleled performance and the possibility of creating any type of entry panel by combining just 7 modules. A new generation of entry panels that are both beautiful and sophisticated.

- 25mm in thickness
- IP54 rated buttons

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)		FUTURA X1 WHITE	
-		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)		FUTURA X1 BLACK	

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XPTBAG	£3,432.50
	PERLA BLACK	XPTBPB	£3,472.50
	PERLA WHITE	XPTBPW	£3,472.50
	OPALE WHITE	XPTBOW	£3,545.00
	OPALE WHITE (WIDE)	XPTBOWW	£3,682.50
	OPALE BLACK	XPTBOB	£3,545.00
	OPALE BLACK (WIDE)	XPTBOBW	£3,682.50
	FUTURA X1 WHITE	XPTBFW	£3,576.25
	FUTURA X1 BLACK	XPTBFB	£3,576.25

COMPLETE KIT INCLUDES

- DVC/08KME
- Required Monitor (see table above)
- DPH
- DTH ME
- DSI
- DCI
- PCS/XIP
- DPF NF
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- VAS/101

6 DEVICE LICENSES INCLUDED

Panel	Monitor	Code	List Price
	AGATA VC	XPTBKAG	£3,578.75
	PERLA BLACK	XPTBKPB	£3,618.75
	PERLA WHITE	XPTBKPW	£3,618.75
	OPALE WHITE	XPTBKOW	£3,691.25
	OPALE WHITE (WIDE)	XPTBKOWW	£3,828.75
	OPALE BLACK	XPTBKOB	£3,691.25
	OPALE BLACK (WIDE)	XPTBKOBW	£3,828.75
	FUTURA X1 WHITE	XPTBKFW	£3,722.50
	FUTURA X1 BLACK	XPTBKFB	£3,722.50

- DVC/08KME
- Required Monitor (see table above)
- DPS
- DNA ME
- DSI
- DCI
- VAS/101
- DPF NF
- VA/08K
- ETI/XIP
- R/1
- PCS/XIP
- MINI SER

6 DEVICE LICENSES INCLUDED

X-AIR PLUS+ KITS

SYSTEM TYPE

Xair PLUS+
UP TO 10 DEVICES

compatible:
iOS
android

VANDAL RESISTANT ENTRY PANEL

The vandal resistant entry panel range is manufactured in the UK to the highest standards. Any number of buttons can be used in either video or audio panel styles with coded keypads, proximity window or name windows if required. Surface or flush mounted, they are the last word in hard wearing, durable entry panel design. As well as a standard range, custom sizes can also be manufactured to suit any application.

- Brushed stainless steel construction
- IP54 rated buttons
- Makralon windows
- Steel grilles

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)	FUTURA X1 WHITE
–		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)	FUTURA X1 BLACK

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XPVRAG	£3,482.50
	PERLA BLACK	XPVRPB	£3,522.50
	PERLA WHITE	XPVRPW	£3,522.50
	OPALE WHITE	XPVROW	£3,595.00
	OPALE WHITE (WIDE)	XPVROWW	£3,732.50
	OPALE BLACK	XPVROB	£3,595.00
	OPALE BLACK (WIDE)	XPVROBW	£3,732.50
	FUTURA X1 WHITE	XPVRFW	£3,626.25
	FUTURA X1 BLACK	XPVRFB	£3,626.25

COMPLETE KIT INCLUDES

- VRVX/1
- Required Monitor (see table above)
- VRSH/1
- DMVC/08K
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- PCS/XIP
- VAS/101

6 DEVICE LICENSES INCLUDED

Panel	Monitor	Code	List Price
	AGATA VC	XPVRKAG	£3,637.50
	PERLA BLACK	XPVRKPB	£3,677.50
	PERLA WHITE	XPVRKPW	£3,677.50
	OPALE WHITE	XPVRKOW	£3,750.00
	OPALE WHITE (WIDE)	XPVRKOWW	£3,887.50
	OPALE BLACK	XPVRKOB	£3,750.00
	OPALE BLACK (WIDE)	XPVRKOBW	£3,887.50
	FUTURA X1 WHITE	XPVRKFW	£3,781.25
	FUTURA X1 BLACK	XPVRKFB	£3,781.25

- VRVKX/1
- Required Monitor (see table above)
- VRSH/2
- DMVC/08K
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- PCS/XIP
- VAS/101

6 DEVICE LICENSES INCLUDED

bpt

X-AIR PLUS+ KITS

SYSTEM TYPE

compatible: iOS ANDROID

SATIN BLACK ENTRY PANEL

The vandal resistant entry panel range is manufactured in the UK to the highest standards. Any number of buttons can be used in either video or audio panel styles with coded keypads, proximity window or name windows if required. Surface or flush mounted, they are the last word in hard wearing, durable entry panel design. As well as a standard range, custom sizes can also be manufactured to suit any application.

- Coated stainless steel construction
- IP54 rated buttons
- Makralon windows
- Steel grilles

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)		FUTURA X1 WHITE	
-		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)		FUTURA X1 BLACK	

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XPBLAG	£3,508.75
	PERLA BLACK	XPBLPB	£3,548.75
	PERLA WHITE	XPBLPW	£3,548.75
	OPALE WHITE	XPBLOW	£3,621.25
	OPALE WHITE (WIDE)	XPBLOWW	£3,758.75
	OPALE BLACK	XPBLOB	£3,621.25
	OPALE BLACK (WIDE)	XPBLOBW	£3,758.75
	FUTURA X1 WHITE	XPBLFW	£3,625.50
	FUTURA X1 BLACK	XPBLFB	£3,625.50

Panel	Monitor	Code	List Price
	AGATA VC	XPBLKAG	£3,670.00
	PERLA BLACK	XPBLKPB	£3,710.00
	PERLA WHITE	XPBLKPW	£3,710.00
	OPALE WHITE	XPBLKOW	£3,782.50
	OPALE WHITE (WIDE)	XPBLKOWW	£3,920.00
	OPALE BLACK	XPBLKOB	£3,782.50
	OPALE BLACK (WIDE)	XPBLKOBW	£3,920.00
	FUTURA X1 WHITE	XPBLKFW	£3,813.75
	FUTURA X1 BLACK	XPBLKFB	£3,813.75

COMPLETE KIT INCLUDES

- BLVX/1
- Required Monitor (see table above)
- BLSH/1
- DMVC/08K
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- PCS/XIP
- VAS/101

6 DEVICE LICENSES INCLUDED

- BLVKX/1
- Required Monitor (see table above)
- BRSH/2
- DMVC/08K
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- PCS/XIP
- VAS/101

6 DEVICE LICENSES INCLUDED

X-AIR PLUS+ KITS

SYSTEM TYPE

UP TO 10 DEVICES

compatible: iOS ANDROID

HIGHLY POLISHED ENTRY PANEL

The vandal resistant entry panel range is manufactured in the UK to the highest standards. Any number of buttons can be used in either video or audio panel styles with coded keypads, proximity window or name windows if required. Surface or flush mounted, they are the last word in hard wearing, durable entry panel design. As well as a standard range, custom sizes can also be manufactured to suit any application.

- Polished stainless steel construction
- IP54 rated buttons
- Makralon windows
- Steel grilles

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)		FUTURA X1 WHITE	
–		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)		FUTURA X1 BLACK	

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XPHPAG	£3,618.75
	PERLA BLACK	XPHPPB	£3,658.75
	PERLA WHITE	XPHPPW	£3,658.75
	OPALE WHITE	XPHPOW	£3,731.25
	OPALE WHITE (WIDE)	XPHPOWW	£3,868.75
	OPALE BLACK	XPHPOB	£3,731.25
	OPALE BLACK (WIDE)	XPHPOBW	£3,868.75
	FUTURA X1 WHITE	XPHPFW	£3,762.50
	FUTURA X1 BLACK	XPHPFB	£3,762.50

Panel	Monitor	Code	List Price
	AGATA VC	XPHPKAG	£3,770.00
	PERLA BLACK	XPHPKPB	£3,810.00
	PERLA WHITE	XPHPKPW	£3,810.00
	OPALE WHITE	XPHPKOW	£3,882.50
	OPALE WHITE (WIDE)	XPHPKOWW	£4,020.00
	OPALE BLACK	XPHPKOB	£3,882.50
	OPALE BLACK (WIDE)	XPHPKOBW	£4,020.00
	FUTURA X1 WHITE	XPHPKFW	£3,913.75
	FUTURA X1 BLACK	XPHPKFW	£3,913.75

COMPLETE KIT INCLUDES

- HPVX/1
- Required Monitor (see table above)
- HPSH/1
- DMVC/08K
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- PCS/XIP
- VAS/101

6 DEVICE LICENSES INCLUDED

- HPVKX/1
- Required Monitor (see table above)
- HPSH/2
- DMVC/08k
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- PCS/XIP
- VAS/101

6 DEVICE LICENSES INCLUDED

bpt

X-AIR PLUS+ KITS

SYSTEM TYPE

compatible: iOS android

CLASSIC BRASS ENTRY PANEL

The classic brass entry panel range is manufactured in the UK to the highest standards. Any number of buttons can be used in either video or audio styles with coded keypads, proximity window or name windows if required. Surface or Flush mounted, the solid unlaquered brass place is a stylish option for a more classic finish. As well as the standard range custom sizes can be manufactured to suit any application.

- Solid Brass construction (un laquered)
- IP54 rated buttons
- Makralon windows
- Steel grilles

AVAILABLE MONITORS

Monitors							
AGATA VC		PERLA WHITE		OPALE WHITE		OPALE WHITE (WIDE)		FUTURA X1 WHITE	
-		PERLA BLACK		OPALE BLACK		OPALE BLACK (WIDE)		FUTURA X1 BLACK	

• X-AIR has the abilty to function without a hardwired monitor. However, if Wi-Fi connection is lost, X-AIR will lose functionality. Therefore we strongly advise that you hardwire a monitor to the system.

CODES

Panel	Monitor	Code	List Price
	AGATA VC	XPBRAG	£3,631.25
	PERLA BLACK	XPBRPB	£3,671.25
	PERLA WHITE	XPBRPW	£3,671.25
	OPALE WHITE	XPBROW	£3,743.75
	OPALE WHITE (WIDE)	XPBROWW	£3,881.25
	OPALE BLACK	XPBROB	£3,743.75
	OPALE BLACK (WIDE)	XPBROBW	£3,881.25
	FUTURA X1 WHITE	XPBRFW	£3,775.00
	FUTURA X1 BLACK	XPBRFB	£3,775.00

Panel	Monitor	Code	List Price
	AGATA VC	XPBRKAG	£3,745.00
	PERLA BLACK	XPBRKPB	£3,785.00
	PERLA WHITE	XPBRKPW	£3,785.00
	OPALE WHITE	XPBRKOW	£3,857.50
	OPALE WHITE (WIDE)	XPBRKOWW	£3,995.00
	OPALE BLACK	XPBRKOB	£3,857.50
	OPALE BLACK (WIDE)	XPBRKOBW	£3,995.00
	FUTURA X1 WHITE	XPBRKFW	£3,888.75
	FUTURA X1 BLACK	XPBRKFB	£3,888.75

COMPLETE KIT INCLUDES

- BRVX/1
- Required Monitor (see table above)
- BRSH/1
- DMVC/08K
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- PCS/XIP
- VAS/101

6 DEVICE LICENSES INCLUDED

- BRVKX/1
- Required Monitor (see table above)
- BRSH/1
- DMVC/08K
- VA/08K
- ETI/XIP
- R/1
- MINI SER
- PCS/XIP
- VAS/101

6 DEVICE LICENSES INCLUDED

bpt

EXAMPLE SCHEMATICS

Xair ENTRY
UP TO 3 DEVICES

SYSTEM WITH THANGRAM ENTRY PANEL

Expandable To
Multiple Monitors

Opale

XIP Devices
3 Monitors

VA/08 K

ETI/XIP
APP

WIRELESS ACCESS
POINT ROUTER

Thangram
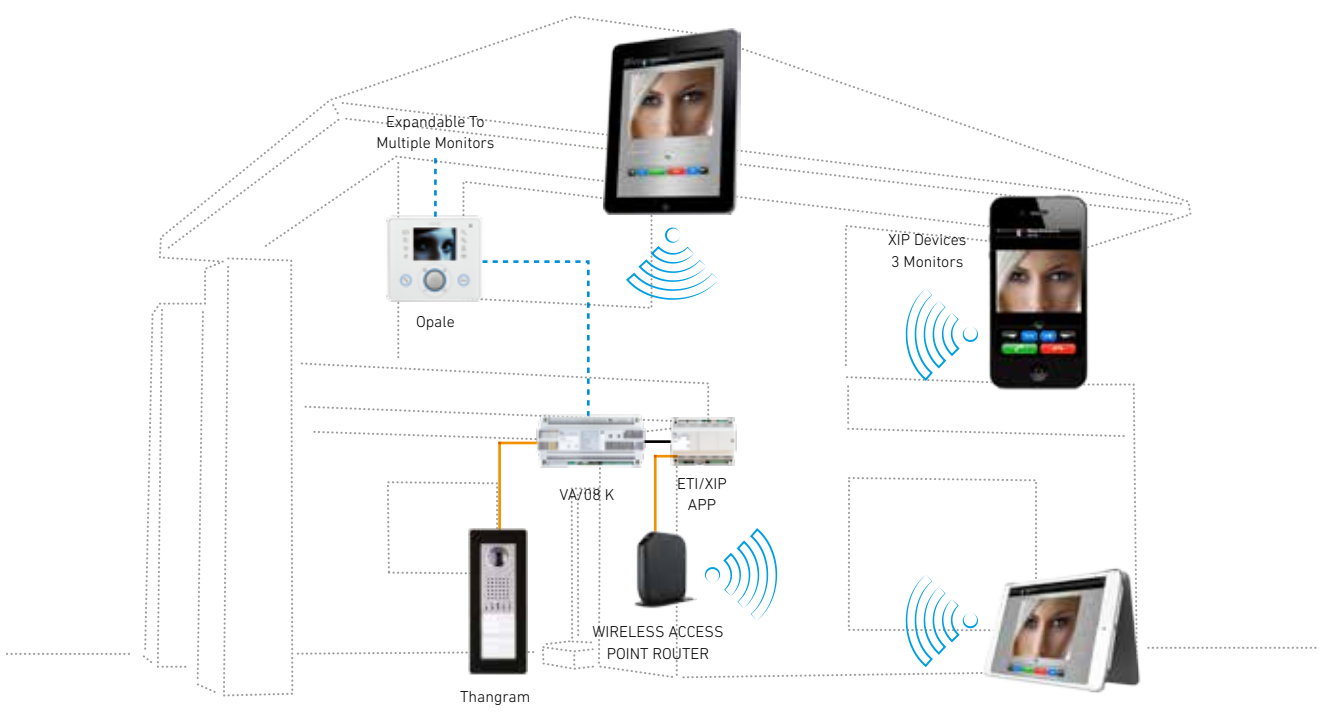
KIT SHOWN IS XTHBOW

EXAMPLE SCHEMATICS

House Setup

The ETI/miniSER works like a normal server managing calls to analog receivers and to SIP based devices (third party terminal, iPhone, Android smartphone).

Opale

Futura IP Monitor

WIRELESS ACCESS POINT ROUTER

Ethernet Switch

VA/08   ETI/XIP

ETI/miniSER

XIP Monitor 10 Devices
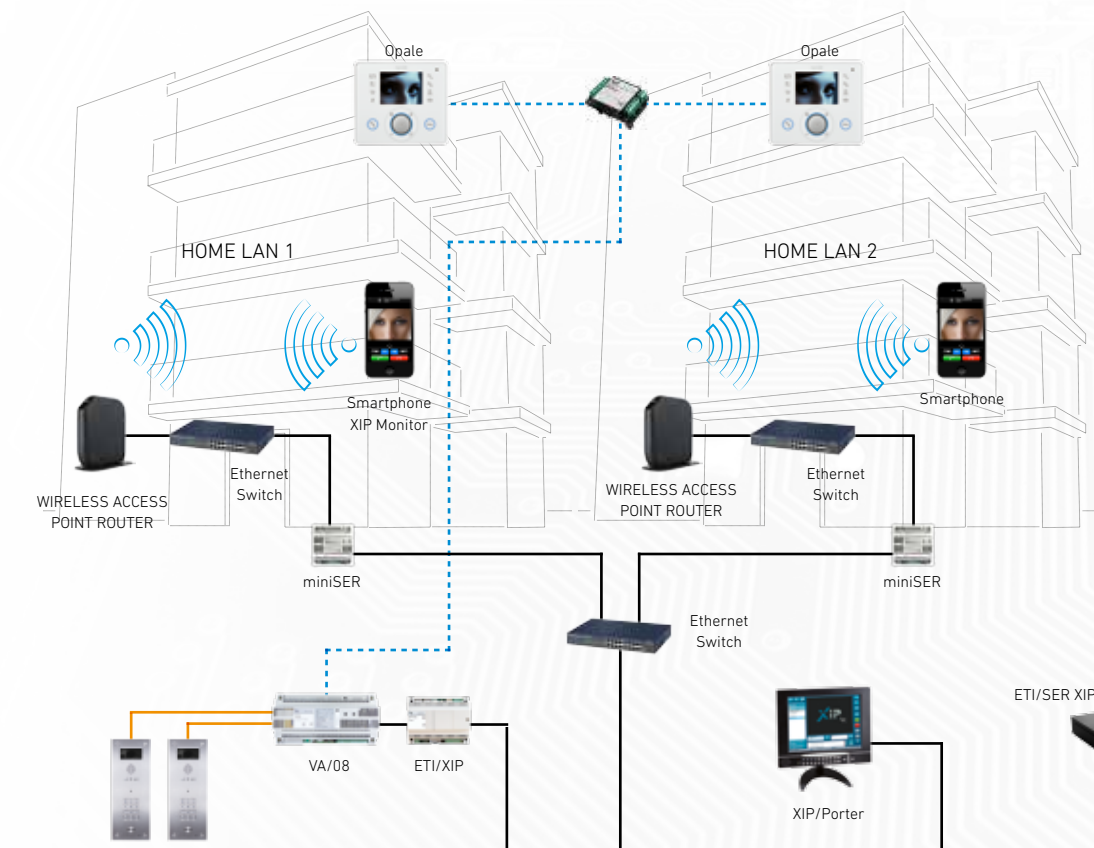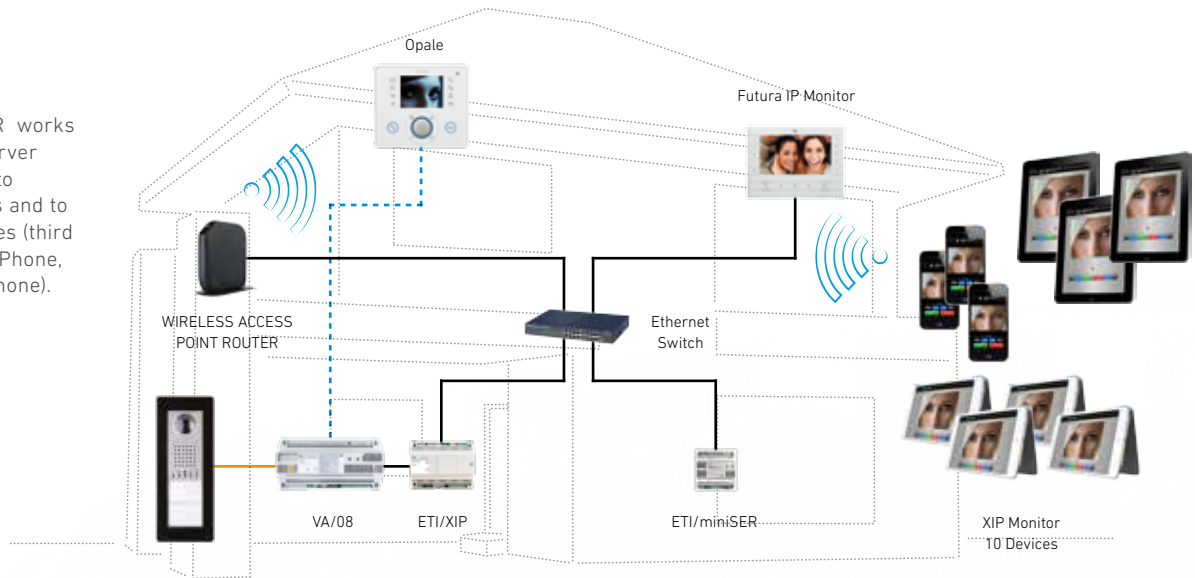
Building Setup

ETI/miniSER is set in "dual-network" mode. Home LAN is separated from common LAN. Each miniSER, one for each apartment, can manage calls to mobile devices as well as to third party terminals. ETI/SER Xip instead manages the concierge station and the call routing from the entry panels to the X1 receivers.

Opale

Opale

HOME LAN 1

HOME LAN 2

Smartphone XIP Monitor

Smartphone

WIRELESS ACCESS POINT ROUTER

Ethernet Switch

WIRELESS ACCESS POINT ROUTER

Ethernet Switch

miniSER

miniSER

Ethernet Switch

VA/08   ETI/XIP

XIP/Porter

ETI/SER XIP

THE NEW FRONTIERS OF THE XIP SYSTEM: FROM THE SINGLE HOUSE TO THE LARGE-S RESIDENTIAL COMPLEX

The new XIP system from BPT uses an ethernet distribution network as the main vehicle for communications between all the gateways. This means that the system can be expanded almost infinitely, while at the same time maintaining the traditional system of connection between the entry panels and the receivers. This structure makes installation of the system components rapid and simple. In addition, a wider range of models can be selected for installation at the various points in the system.

By utilising traditional cables to wire up the entry panels, it is possible to install long-distance connections as well as to connect points that the existing data networks cannot reach.

The system also features the access control function, which supervises and controls all access points in the complex, as well as a range of porter services, which complete the functions provided by XIP.

bpt
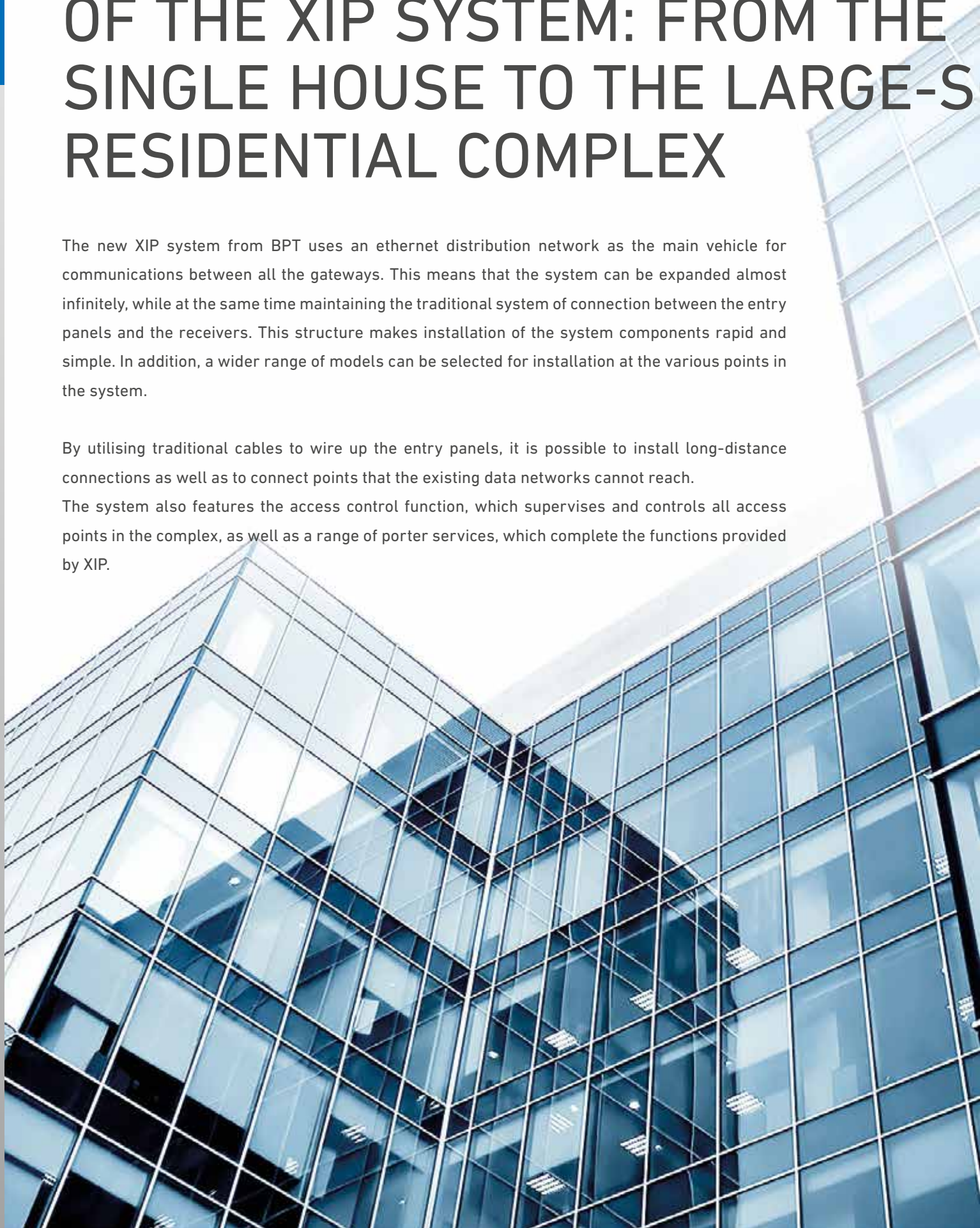
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Features of the system **XIP**

UNLIMITED WIRING DISTANCES

PORTER SWITCHBOARD

UTILISES THE X1 SYSTEM RECEIVERS AND RISERS

H.264 VIDEO COMPRESSION

DESIGNED FOR LARGE-SCALE RESIDENTIAL COMPLEXES

CAN BE MANAGED REMOTELY BY INTERNET

SUPPORTS FIBRE OPTICS, RADIO LINKS AND DEDICATED LINES

ACCESS CONTROL WITH ADVANCED FUNCTIONS

THE XIP SYSTEM.
NEW FEATURES, EXTENDED FUNCTIONS

ETI/XIP

VA/08

VSC/08

Thangram

Thangram

Thangram

VA/08

DIGITHA

ETI/XIP

Digitha

ETI/SER XIP V2

LAN NETWORK

FUNCTIONS

VIDEO ENTRY SYSTEMS
With XIP, the features offered by X1 are expanded to increase the possibility of communication between the various blocks. Ethernet provides an almost infinite number of simultaneous calls; thanks to IP, new and more powerful tools are now available: two-way video calls, re-routing and transfer of calls. A system with unprecedented flexibility.

CCTV
The images from any of the entry panels and traditional or IP video cameras can be displayed on any receiver and at all the porter stations connected to the system. The The video cameras can be connected to the system power supply modules or directly to the gateways via dedicated selectors.

ACCESS CONTROL
The system features sophisticated access control functions for a large number of users that can be programmed remotely via a simple internet interface. The access permits for the individual users can be reconfigured dynamically from the porters' stations, and historical events can be displayed. The BDDE support - a sophisticated dynamic replication procedure - ensures the integrity of the data even in the event of partial outages.

PORTER SERVICES
All the functions of the system can be controlled via the porter services using software that can be installed on any standard PC. The porter services feature a simple interface (for touch panels also) with the following main functions:
• Two-way video call
• Interception of calls according to time profiles
• Porter group hierarchy
• Management of profile exceptions

IP FUNCTIONS
In the systems with this feature the IP function, available only for the XIP System, enables a call to be managed, received or made to receivers outside the system (latest-generation mobile phones, tablets, analogue or GSM phones, porter switchboards) as well as a whole series of basic services such as opening doors, switching on stairway lights, using the video privacy function, etc.

ETI/XIP

VA/08

VSC/08

Thangram

Thangram

Digitha

VA/08

ETI/XIP

Digitha

XIP/Porter

— COAX
— VCM/4D or CAT5 Plus 1mm Pair
— RIBBON CONNECTOR
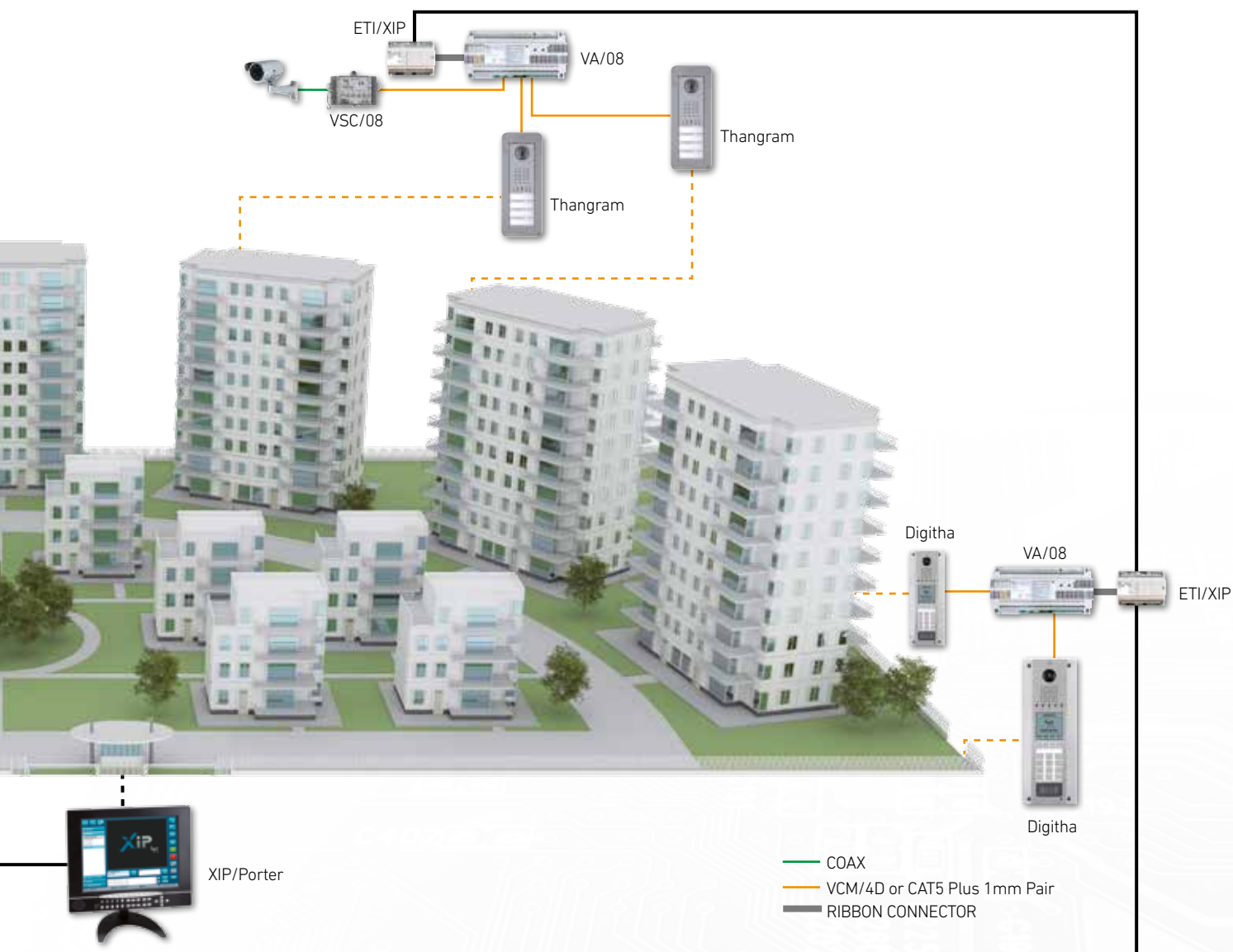
PRINCIPAL COMPONENTS

ENTRY PANELS		COMPONENTS		PORTER SOFTWARE
		Power supply module for video entry panel VA/08		
		Network interface ETI/XIP		
		Network server ETI/SER XIP V2		
Thangram	Digitha			XIP/PORTER

XIP: LAN NETWORKS WITHOUT SERVERS

LAN NETWORK
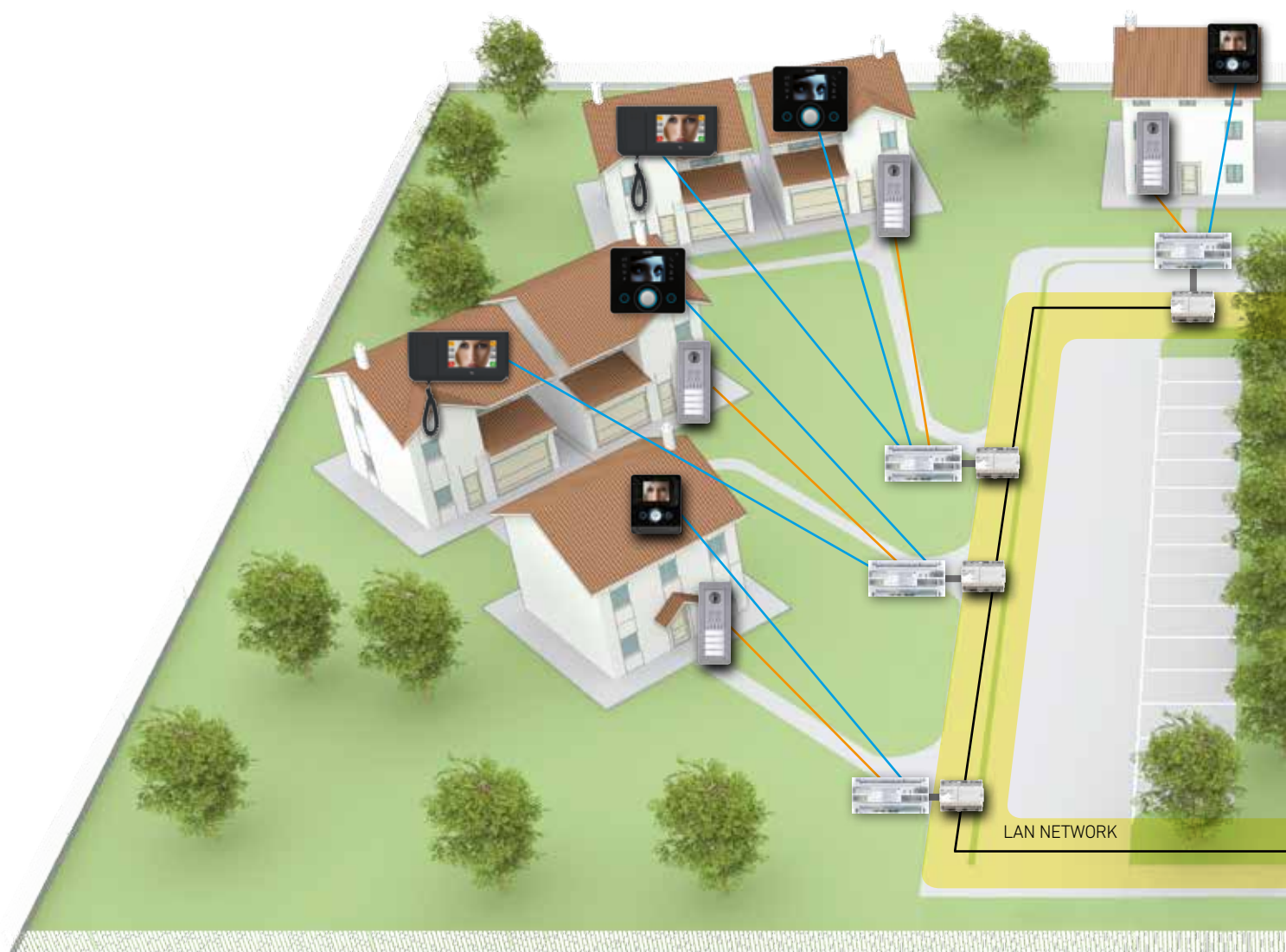
Characteristics

	EXTENSION	The system can be expanded without any limitations using the Ethernet network with copper, fibre optic or radio transmission.
	SCALABILITY	The modularity of the structure and the simplicity with which new "blocks" can be added make it possible to create scalable systems that can be developed as construction continues, so that full operation is guaranteed even in the intermediate stages.

The ETI/XIP GATEWAY

The ETI/XIP gateway can be used to develop powerful, sophisticated access control and video entry systems.

Each "block", controlled by a power supply module, is independent and thus can not only control all local communications between that block's entry panels and receivers, but also receive and transfer calls to and from other blocks.

The ETI/XIP gateway is supplied complete with a connector cable, which plugs into the VA/08 power supply module, and two Ethernet ports for connection to the local network.

bpt

VCM/1D or CAT5

VCM/4D or CAT5 Plus 1mm Pair

LAN

RIBBON CABLE
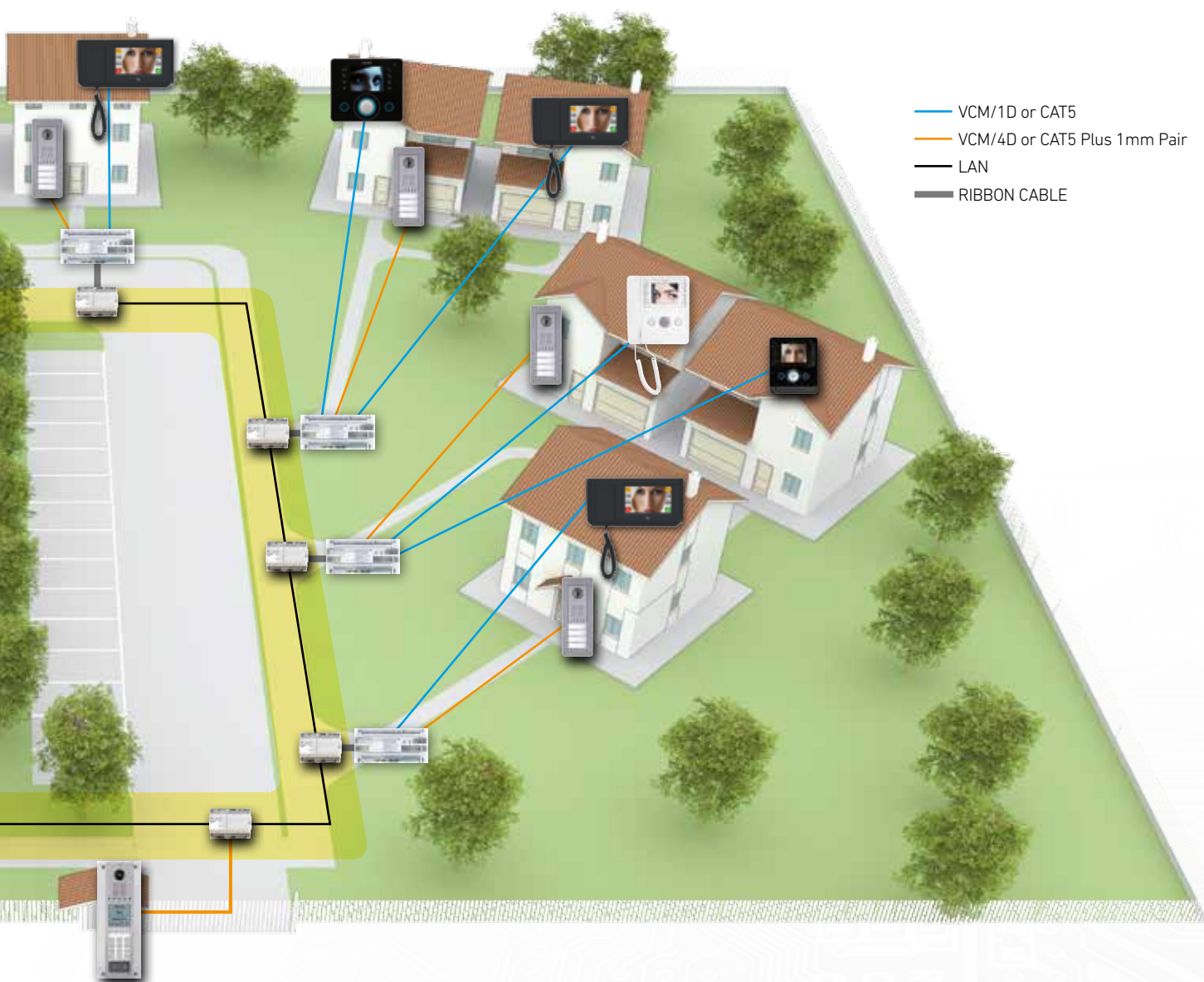
FUNCTIONS

OSD	OSD	Supplementary information concerning the status of the calls and the system can also be displayed on the "basic" X1 receivers.
	ACCESS CONTROL	Using one or more gateways, all the access control functions can be added to the system and synchronised between all the blocks to create a single system.
	DUAL CALL	The gateway can handle two audio/video calls simultaneously: one from the entry panel towards the network, and one from the network to the riser, thus enhancing the power of the system.
	REMOTE PROGRAMMING	Possibility of remote Internet access to the system programming function for remote assistance, updating and programming of the system.
10/100	USE OF EXISTING NETWORKS	The gateways utilise the Ethernet 10/100 standard and can therefore be connected to any existing data network, thus reducing the costs of distribution.

XIP: LAN NETWORKS WITH SERVERS

ETI/XIP   XIP/PORTER   ETI/XIP   XIP/PORTER

LAN

ETI/SER XIP V2
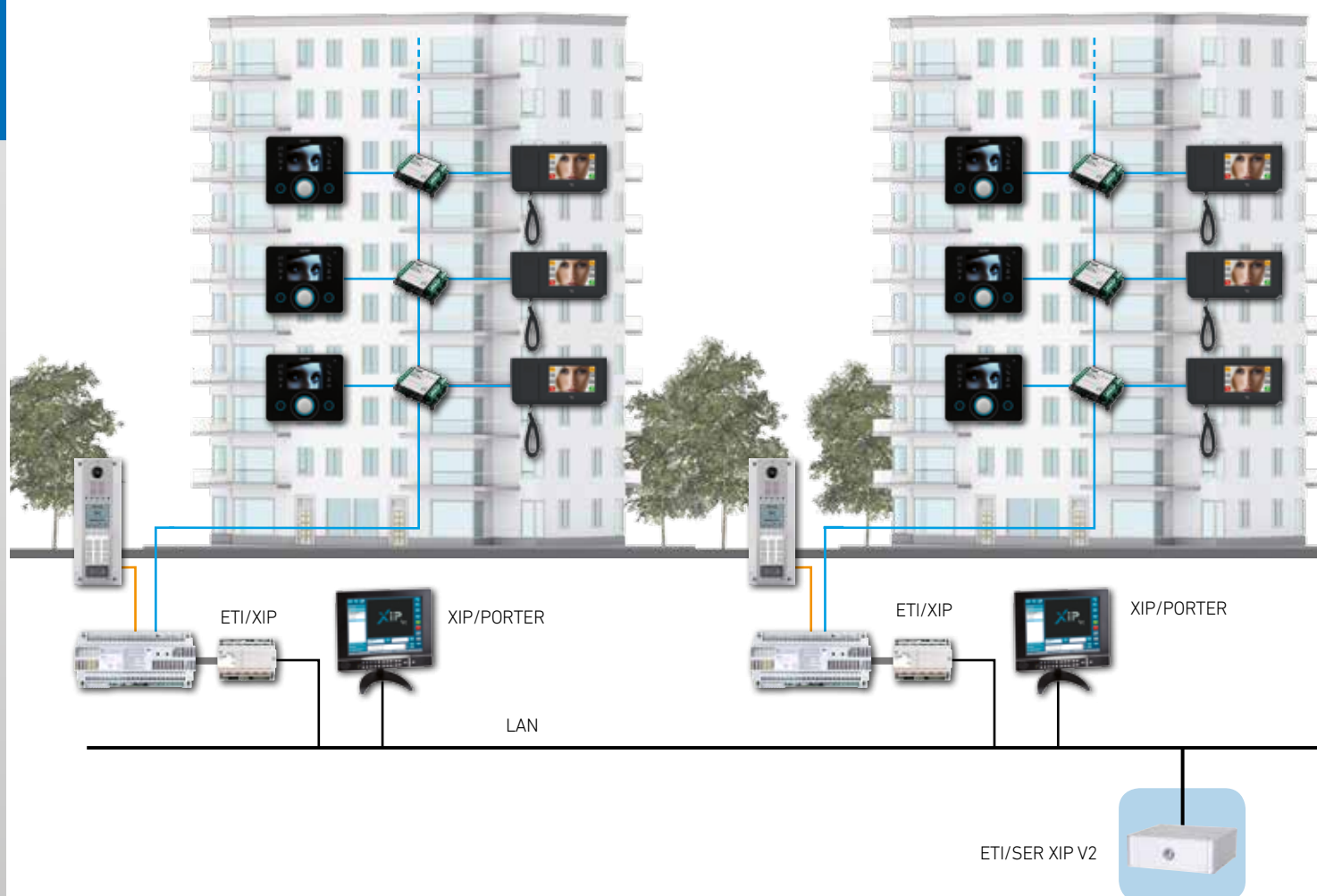
VERSION 2.x XIP SYSTEM NEW FUNCTIONS

The XIP system is evolving with the introduction of the firmware 2.x versions of the main devices and software, offering new functions and enabling management of the system's inter-operation with third-party devices.

From today it is possible to use Multiserver architecture in an XIP system, particularly recommended where two or more sections are connected via a low bit rate connection (for example a radio link, VPN via Internet without guaranteed bandwidth, ADSL link). Each server manages the calls relating to its own subsystem, thus avoiding congestion on the line interconnecting the different sections, increasing the audio/video quality of the calls, and permitting a larger number of simultaneous calls.

With the introduction of the new 2.x version it is also possible for the system to work with third-party devices (SIP ATA and SIP Gateway), through which, for example, a call can be received from the entry panel on a traditional or cordless (useful for a building's porter) analogue phone, to transfer the calls from the XIP system to a local telephone network, e.g. of a company, or to the GSM or PSTN networks,

In all these cases it is also possible to activate door opening or turn on a light with simple preset DTMF codes.

In addition to traditional telephones, from today XIP can be interfaced with third-party SIP phones and VoIP switchboards, devices that are becoming more widespread in the service sector as they provide a series of advanced functions that cannot be managed by traditional telephones. If allowed by the devices themselves, video calls from the entry panel can be made to the SIP phone, along with activations through DTMF tones.

THE ETI/SER XIP V2 SYSTEM XIP SERVER

Allows software for porters, Soft Receivers on PC, video entry system Apps and third-party receivers to be used, and centralises the access control functions and the porter services. Is produced in a container 150x150x51 mm in size. IP40 Protection rating: The server includes an RJ45 connector for 10/100/1000BaseT Ethernet networks, a DVI connector to connect a digital monitor (just for diagnostics), 2 USB 2.0 ports for maintenance operations. The server has a default licence that can be used for the Porter software or the Soft-Receiver software. 12V DC power supply (power unit/transformer included).

bpt

ETI/XIP   XIP/PORTER   ETI/XIP   XIP/PORTER

LAN

— VCM/1D or CAT5   — VCM/4D or CAT5 Plus 1mm Pair   — LAN CABLE   ▬ RIBBON CABLE

MAIN CHARACTERISTICS AND ADDITIONAL FUNCTIONS

	PORTER SERVICES	The server offers a porter service that includes the operating profiles and porter management software.
	PORTER SOFTWARE	The porter management software can be installed on any PC and provides all the functions to manage the system. The porter can receive and dispatch all the system's calls and can also send the video from a locally connected webcam.
	TWO-WAY VIDEO CALL	All the porters can communicate with each other by using the two-way video call function.
	OPERATING PROFILES	The porter services include the facility to intercept all calls from the entry panels and send them to the respective porters. The operating profiles include all the rules relating to the re-routing or transfer of all calls to receivers.
	WEBCAM	The porter can use a normal webcam to transmit images, including his/her own.
	RE-ROUTING OF CALLS	The system can be set to re-route calls to the porter in certain conditions (line busy, no reply, privacy).
	UNCONDITIONAL FORWARDING	It is possible to configure the system temporarily so that all calls are unconditionally re-routed to the porter.

ETI/miniSER

ETI/miniSER is a device used in XIP small-medium sized systems, in which all the functions that can be managed by the ETI/SER XIP V2 server are not required, or else as an apartment interface in more extensive systems.

The server manages calls and transfers to analogue receivers and can centralise access control functions.

Includes 6 UNIVERSAL licences that can be configured as LIC/APP or LIC/GST (also in mixed mode) to allow interfacing with the system and management of communications from mobile devices with the XIP/Mobile app or third-party devices.

The server is equipped with two Ethernet network 10/100 Mbits interfaces with RJ45 connectors that can be in a "switch" or "dual-network" configuration.

The latter makes it possible to separate, for example, a domestic LAN network from a building LAN thus meaning a user who uses a smartphone is able to receive calls from the entry panel (through the common LAN) but at the same time is able to browse the Internet on the domestic network. This is all security protected, so that each apartment with an ETI/miniSER only sees its own local network and not those of the other tenants, only sharing the common LAN to receive calls from the main entry panel or from a porter in the block.

TECHNICAL CHARACTERISTICS

- 2 10/100 Mbits Ethernet network interfaces
- USB for exporting event logs
- 12-24V DC power supply
- LED for different signals
- dimensions: 6 DIN

Special FUNCTIONS

	ACCESS CONTROL
	RE-ROUTING OF CALL
	MAX 10 SIMULTANEOUS CALLS TO VOIP DEVICES OR MIXED GROUPS X1-VOIP
	MASTER FUNCTION FOR ETI/XIP
	SUPPORT FOR MULTISERVER SYSTEMS

EXAMPLE SCHEMATICS: SINGLE FAMILY SCENARIO

INTERNET NETWORK

Opale

3rd Party Terminal

HOME LAN

Smartphone
XIP Mobile

ADSL ROUTER
Default GW

VA/08   ETI/XIP   ETI/miniSER

- - - VCM/1D or CAT 5
─── VCM/4D or CAT5 Plus 1mm Pair
─── LAN CABLE
▬▬ RIBBON CABLE
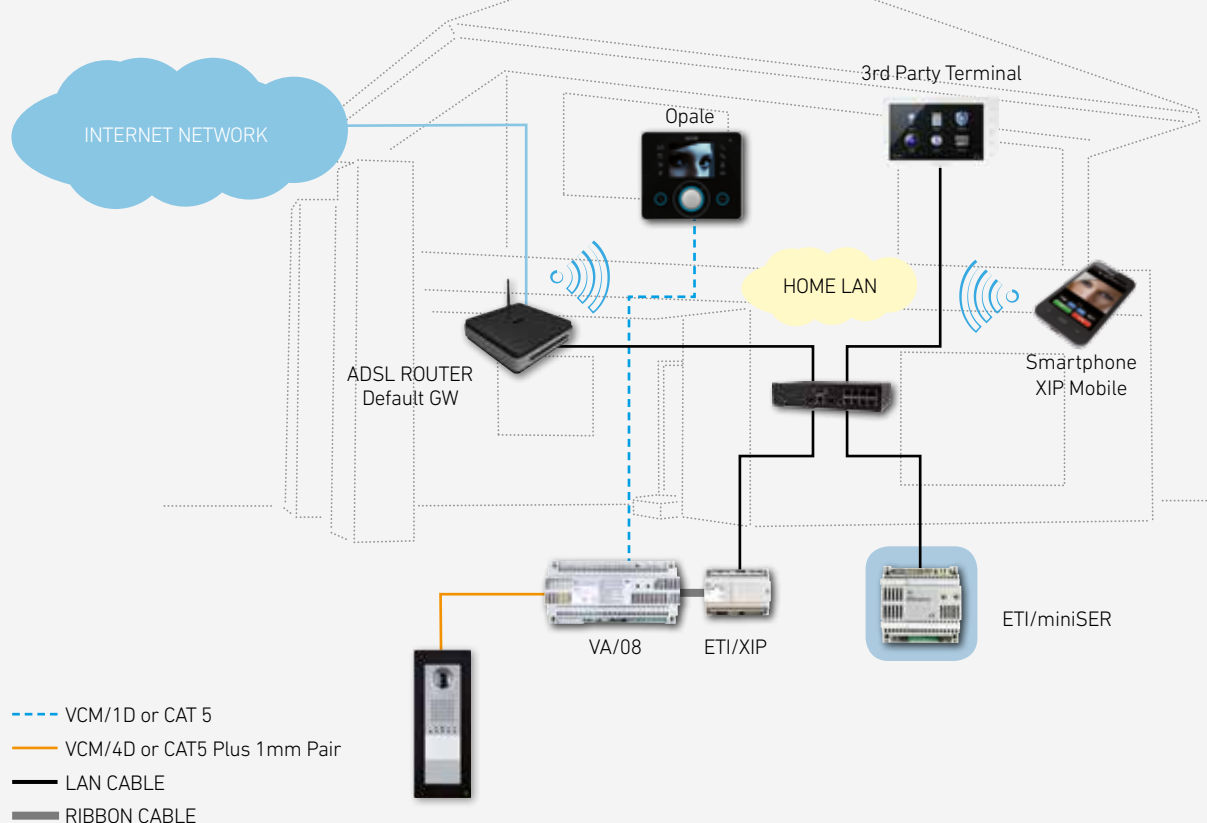
EXAMPLE SCHEMATICS: MULTI-USER WITH PORTER AND MAIN SCENARIO

INTERNET NETWORK

INTERNET NETWORK

Opale

Opale

HOME LAN 1

HOME LAN 2

Smartphone
XIP Mobile

Smartphone
XIP Mobile

Ethernet switch

Ethernet switch

ADSL ROUTER
Default GW

ADSL ROUTER
Default GW

ETI/miniSER

ETI/miniSER

COMMON LAN

Ethernet switch

- - - VCM/1D or CAT5
─── VCM/4D or CAT5 Plus 1mm Pair
─── LAN CABLE
▬▬ RIBBON CABLE

VA/08   ETI/XIP

ETI/SER XIP V2

XIP/PORTER

LAN
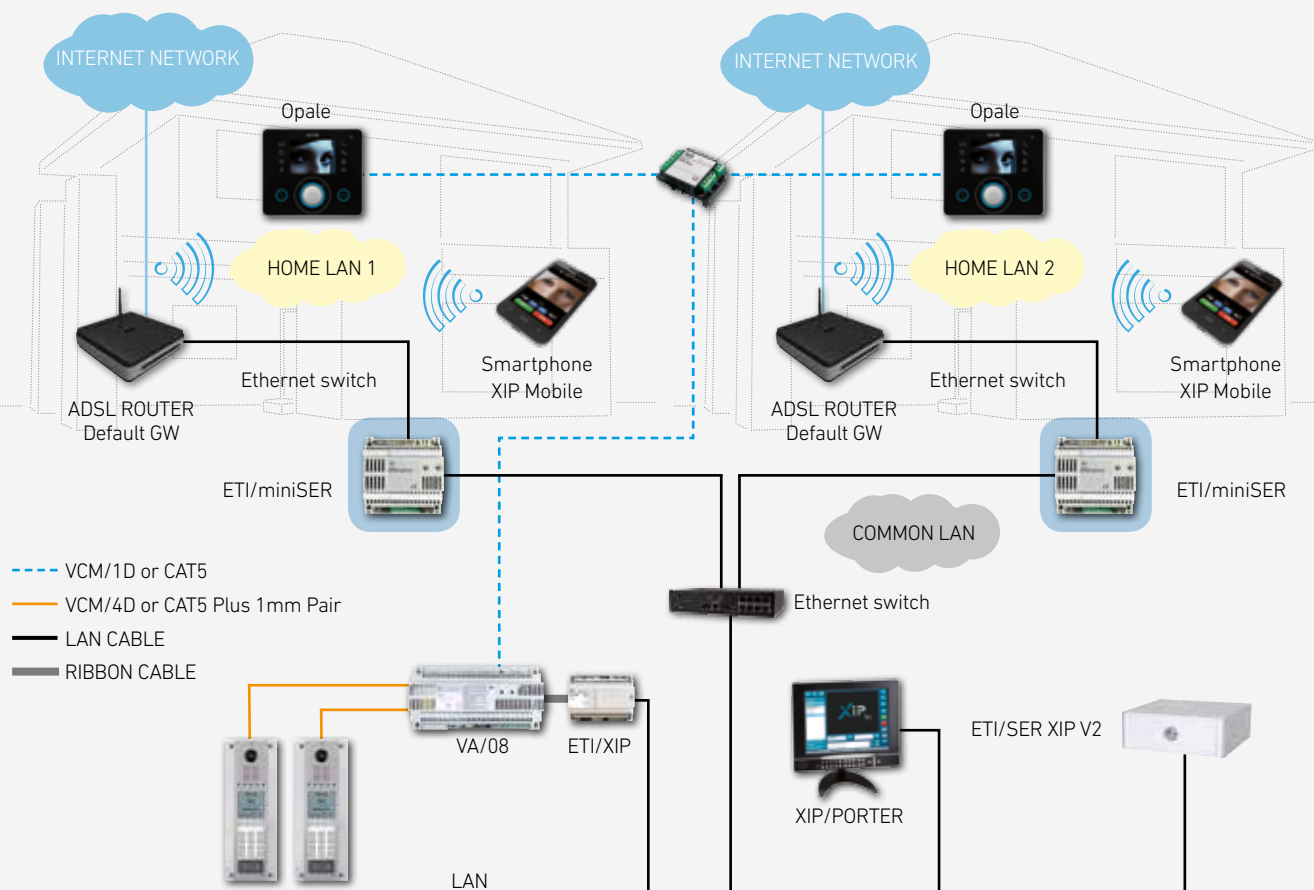
PORTER SERVICES

The software for porter services, which runs under the Windows operating system, can be used to supervise the entire system even in large-scale residential complexes. The interface has been developed specifically to give the operator full control of the system in the simplest and most practical way. Simple, intuitive commands and the possibility of using the software with a touch-screen PC are especially useful to operators who are accustomed to more traditional systems. A webcam can be connected directly for two-way contact between all the porters.

INTERFACE

The synoptic section displays all the devices in the system in three different ways that will facilitate the search function; coloured icons identify the status (free, busy etc.).

The display area comprises three different menus:
· Favourites: list of devices already programmed.
· System: structure with all the system's devices.
· Entry panels and video camera: structure with all the entry panels and video cameras that are in the system.
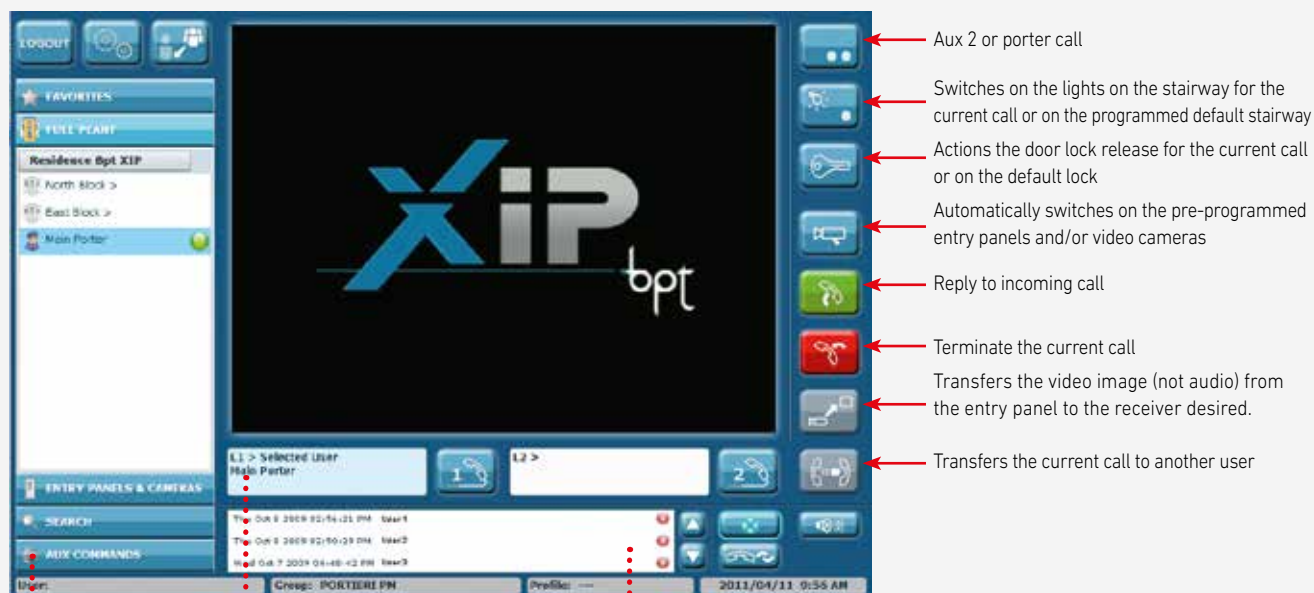
Aux 2 or porter call

Switches on the lights on the stairway for the current call or on the programmed default stairway

Actions the door lock release for the current call or on the default lock

Automatically switches on the pre-programmed entry panels and/or video cameras

Reply to incoming call

Terminate the current call

Transfers the video image (not audio) from the entry panel to the receiver desired.

Transfers the current call to another user

The call area indicates the status of each of the two available communication channels

The events log shows missed calls, "Panic" alarm calls or the list of messages, depending on which push button is pressed.

By pressing the "Auxiliary command" button it is possible to display the auxiliary commands list previously programmed.

bpt

INCOMING CALL - EXAMPLE

When a call is received, the image from the entry panel is displayed in full-screen mode on the porter's monitor; the image of the porter is shown in PIP (picture-in-picture) mode. If the call is transferred from the entry panel to a receiver, the external video image will be shown (with the porter in PIP mode) on the receiver.

SIMULTANEOUS CALLS - EXAMPLE

If a second call is received while a call is in progress, the images will be displayed as shown in the diagram. One of the two calls can be placed on hold at the touch of a fingertip.

TECHNICAL DATA

MINIMUM PC REQUIREMENTS	
CPU	Pentium 4.2 GHz
screen	1024x768
RAM	1 GB
Hard disk	350 MB free
operating system	Windows XP / Vista / Windows 7 / Windows 8
audio devices	Microphone+loudspeaker
VIDEO CAMERA	Built-in / external
required software	Adobe Flash Player 10; Windows Explorer 7

CONFIGURATION OF THE SYSTEM

The new devices that make up the X1 and XIP systems are all fitted with USB ports, so that it is unnecessary to use bulky serial adapters, and programming is faster and simpler.
The configuration software for the new systems (PCS/XIP) is designed to create all the structures necessary for the system. Using a single set of software and one graphic interface, just a few simple clicks of the mouse are sufficient for configuration of a video entry system of any dimensions, from a single-family home to an entire digital village.

All the objects that make up the system can be transferred to the main part of the screen using the simple "drag & drop" method. From the "objects properties" area, all these objects can be configured with all the necessary parameters and can be assigned names which will simplify control and maintenance.

Once the structure has been created and all the devices have been configured, all the devices connected to the system can be programmed rapidly from the USB port.
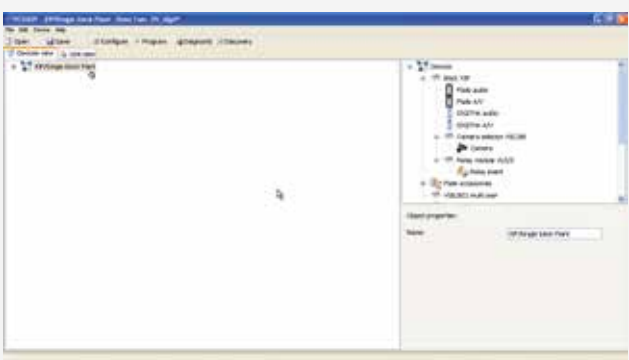
In this way, the entire system can be programmed (or re-programmed) from a single point.
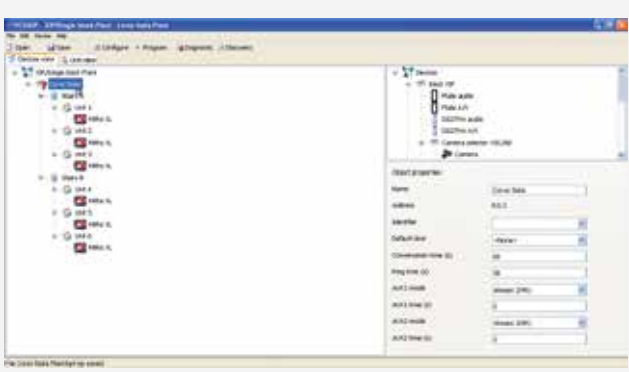
The "Unit view" section can be used to enter advanced access control settings and for self-connection of the entry panels by the users.
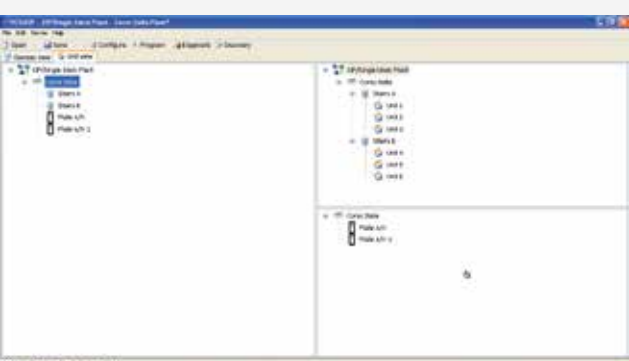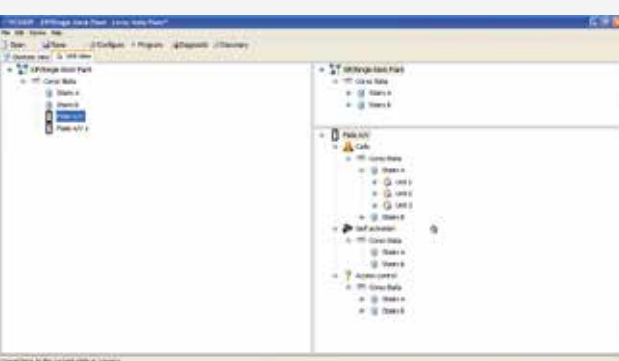
CONFIGURATION OF THE NETWORK

DAISY-CHAIN CONNECTIONS

The gateways can be interconnected in daisy-chain configuration (i.e. in series - see below) subject to a maximum distance between gateways of 100 metres. Up to a maximum of 20 gateways can be connected in this way.

Using this type of configuration, the system can be installed without the use of other network devices.

STAR CONNECTION

If the gateways are connected to a pre-existing network structure, different limitations are applicable. The system should be wired in star configuration (typical of Ethernet networks). The network can include not only the CAT 5, but also sections in fibre optics or radio links. Whichever solution is used, the bandwidth must be sufficient.
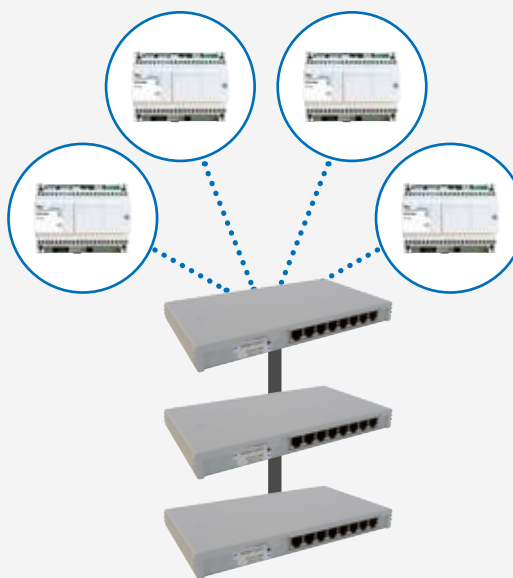
CONFIGURATION OF THE NETWORK PARAMETERS

For configuration of the network parameters, it is sufficient to access the web interface and modify the parameters in the corresponding window. Once the IP address has been configured, the configuration tool can be used to set up the remaining devices.

XIP: RESIDENTIAL SOLUTIONS WITHOUT LANS

Systems for medium-sized residential complexes can be created using the backbone connecting the main entrance point(s) and the individual residential units (houses and/or blocks), using a normal non-polarised twisted pair (or, for maximum performance, it is possible to use BPT's VCM/1D dedicated cable).

This cable can be routed through normal signal distributors placed in each block (daisy-chain connections), or by distributing a pair for each block directly to the main entrance (star connections). The activation of the system can be done directly via software for all the system's functions. Refer to the tables of characteristics for the correct method of utilisation and the technical performance data.

MITHO SB

It is possible to create installations for residential complexes with main porters and separate porters for each block. Each porter switchboard may intercept calls made to users belonging to the corresponding block and then transfer them as required. The porter switchboard comprises a table-top audio/video terminal with a 4.3" touch screen. The terminals will be programmed using the programming tool and provided with a list of all the users served by the system. The terminals may display incoming calls and alarm messages.

CAPACITY OF A SYSTEM WITHOUT LAN

—— VCM/1D or CAT5
—— VCM/2D or CAT5 Plus 1mm Pair
—— VCM/4D or CAT5 Plus 1mm Pair
—— COAX
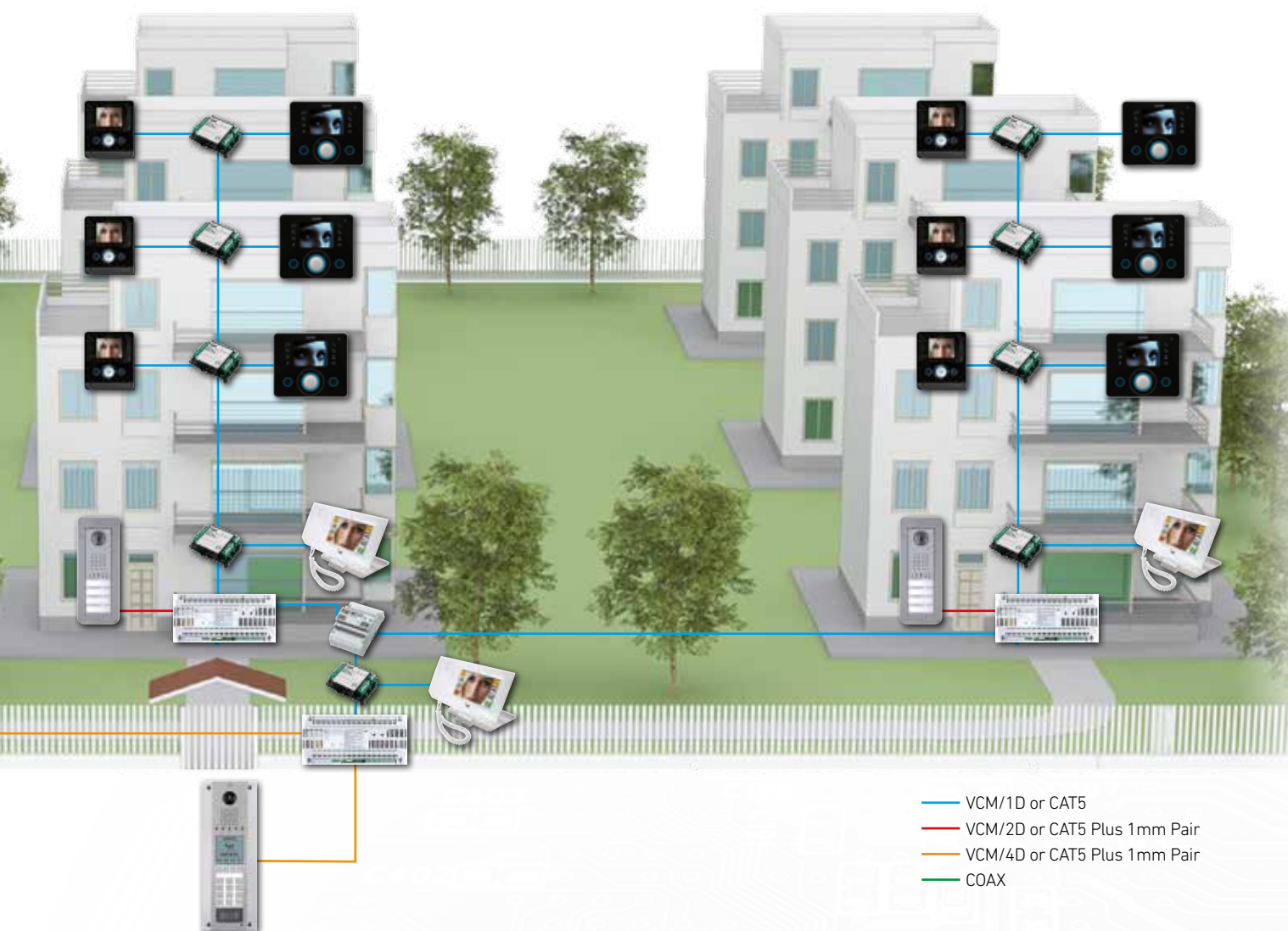
BLOCK

- Up to **64** blocks (buildings)

- Up to **108** users per block

- Up to **2** entry panels per block

- Distance between monitor and entry panel of block up to **150** metres

- Intercom service between all receivers in block without additional wiring (max 10)

- **8** monitors in simultaneous call mode

- Self-connection, door release, **2** commands for auxiliary services and call privacy as standard

- Up to **2** block porters to give a total of **128** block porters

- Up to **2** main porters

SYSTEM

- Up to **2,000** total users

- Up to **2,600** metres of cable in total between the main power supply unit and the block monitor

- Up to **4** main entry panels

- Up to **1,500** different access to the system badges

MITHO SB: THE PORTER SWITCHBOARD
The Advanced Solution For Porter Services

The Mitho SB is a colour video porter switchboard system for table-top installation, featuring a 4.3" LCD touch screen in 16:9 format and available in Fusion Black or Ice White.

As with all terminals in the "Mitho" range, navigation of the numerous functions is simple and intuitive, using colour codes for immediate association between the various functions and the different colours. This range also offers image zoom/pan functions, video-voicemail and audio using the handset or the hands-free option. It can be installed on an elegant and practical table-top support comprising a sturdy 3 mm steel base whose design perfectly complements the terminal, and an adapter in two colours: Ice White or Fusion Black.

SINGLE BLOCK XIP SYSTEMS

Mitho SB is the ideal solution for simple systems with porter services, both for X1 and XIP single-block installations, especially for a limited number of users. Up to two porter switchboards can be installed for each system. The porter switchboards can intercept all calls made to users of the system.

X1

VAS/100 MH — MITHO SB — XDV/304 — MITHO SB — VAS/100 MH
VA/01
DVC...

─── VCM/1D or CAT5
─── VCM/2D or CAT5 Plus 1mm Pair

XIP

VAS/100 MH — MITHO SB — XDV/304 — MITHO SB — VAS/100 MH
VA/08
DDVC...

─── VCM/1D or CAT5
─── VCM/4D or CAT5 Plus 1mm Pair
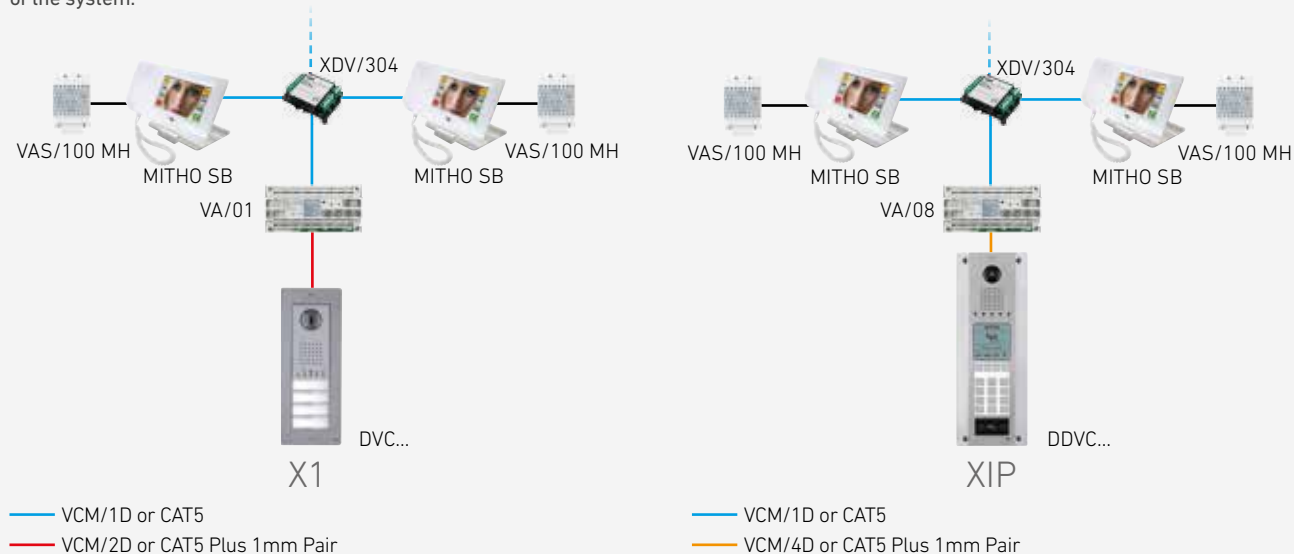
XIP SYSTEMS WITHOUT LAN

Mitho SB is a sophisticated solution for providing porter services in XIP systems in which LAN networks are not used. Up to two units can be installed for the main block, and another two for each of the secondary blocks, connecting the units immediately downstream of each VA/01 and VA/08 main unit. The Mitho SB audio/video switchboard can intercept all calls made from entry panels and passing along the riser to which the switchboard is connected.

MITHO SB — XDV/304 — MITHO SB
VAS/100MH   VAS/100MH
VA/01
DVC...
XDV/304A
VAS/100MH — MITHO SB — XDV/304 — MITHO SB — VAS/100MH
VA/08

XDV/304 — MITHO SB
VAS/100MH
VA/01
DVC...

DDVC/08 VR

─── VCM/1D or CAT5
─── VCM/2D or CAT5 Plus 1mm Pair
─── VCM/4D or CAT5 Plus 1mm Pair

bpt
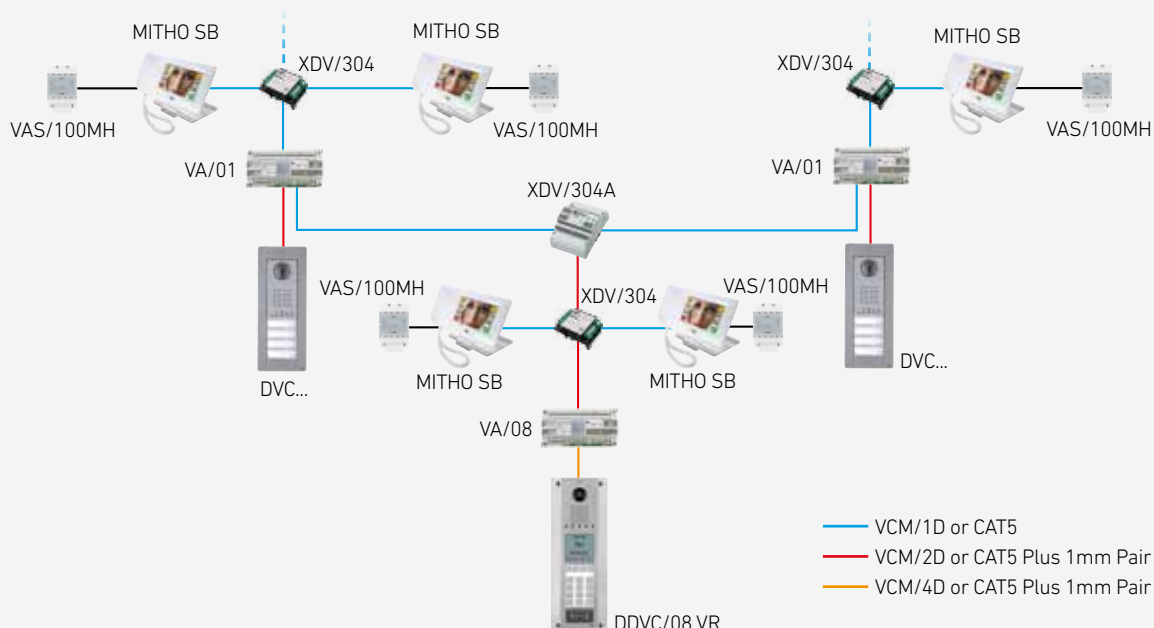
The Mitho SB interface is specially designed for simplicity of operation.

The switchboard operator always maintains full control of the status of the system and can perform the following functions simply by touching the screen:

Switch on stairwell lights and auxiliary services

Enable /disable the interception of calls

Scroll through the list of Users to transfer calls.

Transfer messages to individual receivers

Listen to messages stored in the voicemail system

Call back the most frequently called users using the "Favourites" menu

Control all the video cameras, including the entry panels

Examine the list of unanswered calls

Enter operating profiles and weekly programming

Action the door release mechanism

Enable/disable the voicemail function

When a call is received from one of the entry panels, the switchboard operator is advised by a customisable ringtone melody and receives the video image from the entry panel.
At this point, the operator may:

◉ Allow the caller to enter immediately
◉ Open the audio channel with the entry panel
◉ Transfer the call to a different user

Transfer of the call takes place via a smart-sensitive user search. Once selected, the call from the entry panel is put on hold and a call is made to the user.

During the call to the user, and with the call from the entry panel on hold, the operator can:

◉ Transfer the call from the entry panel directly to the user
◉ Start a conversation with the user and then decide whether or not to transfer the call from the entry panel.

After terminating the call by pressing the relative key, the operator re-establishes communication with the conversation that was left on hold and the system returns to the preceding video page.

The system comprises two different operating profiles:

◉ Porter present
◉ Porter absent: all calls are routed automatically to the receivers called.

Switching from one profile to the other can be carried out manually using the icon on the Home Page, or automatically using the weekly programming function.

BPT CABLES
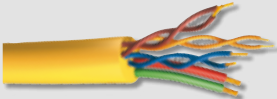
With the XIP system, BPT offers guaranteed performance and signal quality irrespective of the selected method of transmission. The maximum distances depend on the number of receivers connected and the maximum power absorption of the overall system.

High specification VCM/4D and VCM/2D custom cable from BPT is also available to optimise system performance.

VCM/4D cable by BPT (Optimum performance)

Cable comprising 3 twisted pairs (wire section 0.28 mm2) and 2 wires (section 1.5 mm2).

PVC insulating sheath, diameter 11 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: blue/blue-white - brown/brown-white - orange/orange-white for twisted pairs - red and green for power supply wires. Nominal impedance of twisted pairs 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 105 mm. Fully compliant with CEI 46-6 (latest amendment)/CEI 20-11 (latest amendment)/CEI 20-37.

Supplied in 100m or 500m coils.

		COLOUR OF WIRE	THICKNESS	TYPE OF CABLE
VCM/4D		Green	1.5 mm²	Power supply
		Red	1.5 mm²	
		Light Blue	0.28 mm²	Audio
		White/Light Blue	0.28 mm²	
		Orange	0.28 mm²	Bus
		White/Orange	0.28 mm²	
		Brown	0.28 mm²	Video
		White/Brown	0.28 mm²	

VCM/2D cable by BPT (Optimum performance)

Cable with 0.28 mm2 twisted pair and 2 wires (section 1 mm2).

PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair: 70mm twist pitch. Copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (±20%) (f = 1 mhz), capacitance 50 pF (at 20°C).

Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment), CEI 20-11 (latest amendment), CEI 20-37.

Supplied in 100m or 500m coils.

		COLOUR OF WIRE	THICKNESS	TYPE OF CABLE
VCM/2D		Green	1.00 mm²	Power supply
		Red	1.00 mm²	
		Light Blue	0.28 mm²	Bus
		White/Light Blue	0.28 mm²	

VCM/1D cable

Cable with 1 mm2 twisted pair.

PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colour: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (±15%) (f = 1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment).
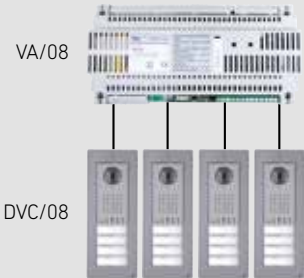
Supplied in 100 m or 500 m coils.

		COLOUR OF WIRE	THICKNESS	TYPE OF CABLE
VCM/1D		Light Blue	1.00 mm²	Bus/Power supply
		White	1.00 mm²	

RECOMMENDED WIRES FOR EACH TYPE OF CONNECTION

The XiP system by BPT guarantees excellent performance and signal quality on a variety of cable types including CAT5. Distances shown are the same for all entry panels and monitors types and represent expected working capability.
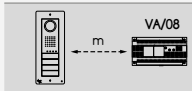
For systems using UTP Cat5 or alternatives, expected working distance may be much greater than shown. (dependent on situation)
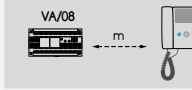
TYPE OF CONNECTION		RECOMMENDED WIRE
Connection between entry panels and power supply modules	VA/08 DVC/08	**VCM/4D (Optimum performance)** Cat5 Cat6
Distribution on riser	XDV/304	For X1 systems with separate power supply for the receivers: **VCM/2D (Optimum performance)** **CAT5** **Twisted pair + Power**
	XDV/304	For X1 systems with bus powered receivers: **VCM/1D (Optimum performance)** **CAT5** **Twisted pair + Power**

bpt

DISTANCES

STANDARD SYSTEM
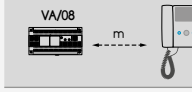
	VCM/4D OR CAT5E UTP + 2X 1MM² CSA	UTP5
[entry panel] m VA/08	250	30
Q = Tot amount of cable laid	1000	120

	VCM/1D	VCM/2D	UTP5 CAT5E
VA/08 m [receiver]	100	250	30

SYSTEM WITH LINE AMPLIFIER

Optional**

XAS/301.01

XAS/301.01

	VCM/4D OR CAT5E UTP + 2X 1MM² CSA	UTP5
[entry panel] m VA/08	250	30
Q = Tot amount of cable laid	1000	120
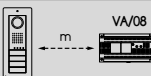
	VCM/1D	VCM/2D	UTP5
VA/08 m [receiver]	100**	100**	100**
Q = Tot amount of cable laid	1000**	1000**	400**
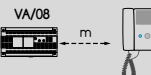
Optional

(**) The maximum distance between the entry panel and the receiver is increased by 250 metres (plus 1,000 metres total cable length) for each supplementary XAS/301.01 power supply module (maximum of 2 in cascade formation), on condition that no receivers are installed between the XAS/301.01 power supply modules or between the XAS/301.01 and the VA/01 modules, or if the receivers are powered locally.

RESIDENTIAL SYSTEM

Main

	VCM/4D OR CAT5e UTP + 2x 1mm² CSA	UTP5
[entry panel] m [VA/08]	250	30
Q = Tot amount of cable laid	1000	120

	VCM/1D	VCM/2D	UTP5
[VA/08] m [receiver]	250**	250**	250**

Block

	VCM/4D OR CAT5e UTP + 2x 1mm² CSA	UTP5
[entry panel] m [receiver]	150**	60**

	VCM/1D	VCM/2D	UTP5
[VA/01] m [receiver]	100**	100**	100**
Q=Tot amount of cable run	600	600	400

⚠ (*) The total amount of cable laid refers to the wiring of all the receivers plus that of the entry panel of the furthest block.
(*) For each additional power supply XAS/301.01 (Max no. two XAS/301.01 in daisy-chain configuration), the maximum distance from entry panel to receiver can increase by 250 m (plus the 1000 m of total cable laid), provided there is no receiver or the latter is locally supplied.

PERFORMANCE

Thangram entry panels and VA/08 power supply

TYPICAL RISER DISTRIBUTION

XDV/304

Mitho

Opale

VAS/100MH

Perla

Agata

——— VCM/1D or CAT5
——— VCM/2D or CAT5 Plus 1mm Pair
——— VCM/4D or CAT5 Plus 1mm Pair
——— COAX
——— 2 wires
▬▬▬ RIBBON CABLE
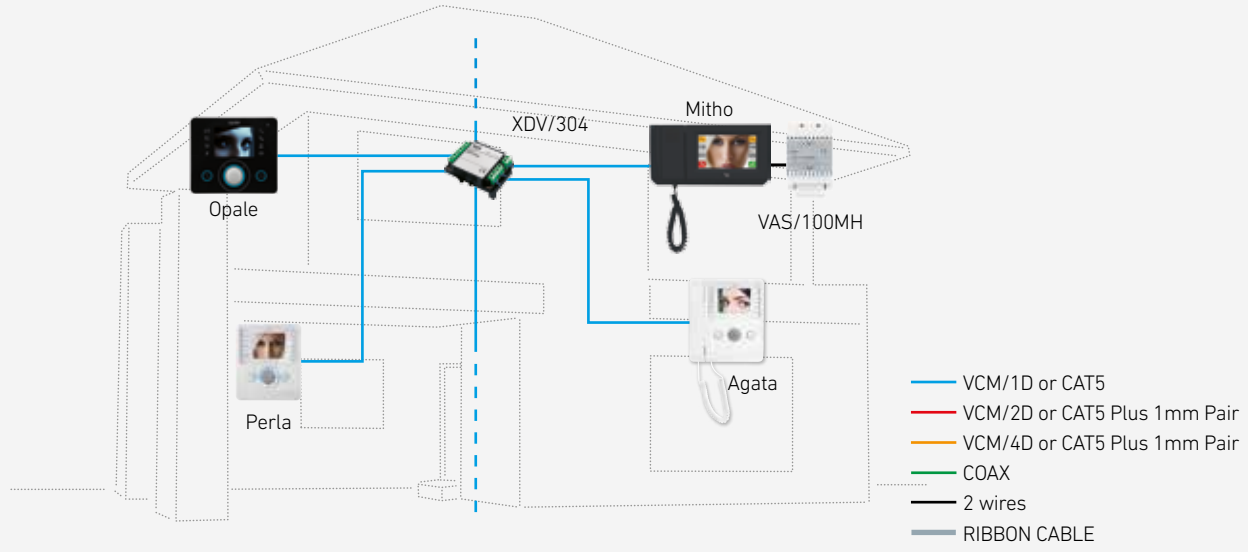
A ... it is possible to create systems with 4 separate entry panels connected in 'star' configuration and 108 receivers.
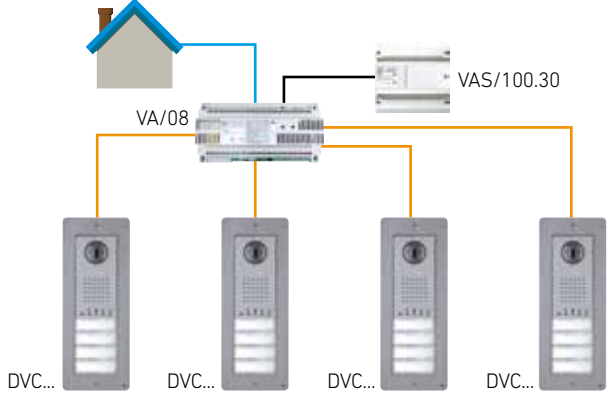
B ... or systems with cyclic selection of 4/8/12 video cameras that can be viewed from the receivers.

VAS/100.30

VA/08

DVC... DVC... DVC... DVC...

VAS/100.30

VA/08

DVC... DVC... DVC...

VSC/08

bpt
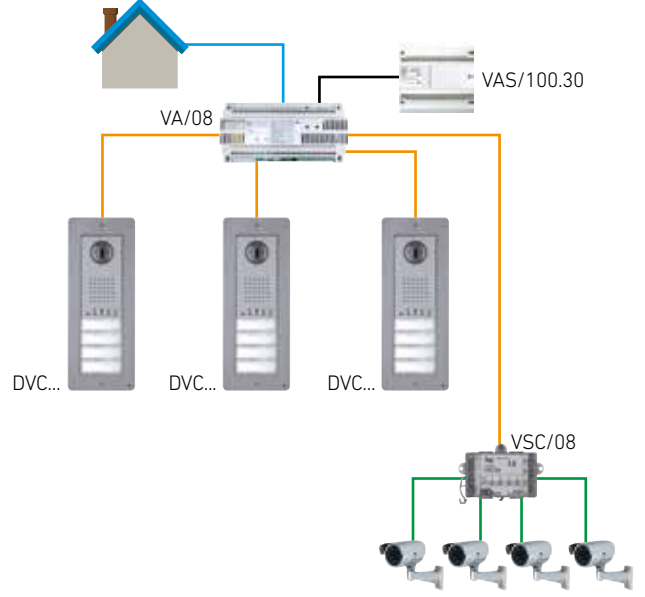
C ... software programming with a PC connected via USB
to the power supply module can be used.

DVC...　　　VA/08

.....or

DVC...　　　VA/08　　　RIR/08

SYSTEM COMPONENTS

POWER SUPPLY MODULES

Article	Description	Code	List Price
	Power supply module for video entry panel for XIP systems Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. Complete circuit board for control of entry panels (18 VDC - 1.1A max) and for control of the video entry system riser (20 VDC - 0.8A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus and terminals for connection of an audio/video/bus for 4 entry panels. Open-collector outputs for auxiliary functions (AUX1 and AUX2). RS232 serial ports (for future functions) and mini USB for programming from PC (with LED indicators for 'connection' and 'data being transferred'). Serial connector for network devices. Manual system programming button with indicator LED. Jumper for access to programming of access control devices (cards and keys). Powered by mains circuit 230 VAC 50/60 Hz.	VA/08	£378.75
	Supplementary power module for X1/Xip systems. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 4 low-profile DIN modules. Protection rating IP30. Complete circuit board for power supply to entry panels and receivers (18 VDC - 1A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus. Fitted with terminals for connection of the device power supply modules. Powered by mains circuit 230 VAC 50/60 Hz	VAS/101	£77.50
	Supplementary power module for X1/Xip systems. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Electronic circuit-breaker for protection against overloads/short-circuits. Complete with output terminals for power supply to devices (17.5 VDC - 1.7A max). Powered by mains circuit 230 VAC 50/60 Hz. If used as the only power supply module for the system, RFID and DNA modules can not be used for access control.	VAS/100.30	£90.00
	Bus ower supply module/repeater for audio, video and data signals Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. Complete circuit board for device control (20 VDC - 0.8 A max). Electronic circuit-breaker for protection against overloads/short-circuits. Complete with terminals for control of IN and OUT bus and 9 switches for compensation of signals according to distance. Two LEDs for confirmation of connection and data transfer. Potentiometers for compensation of audio volume to and from the receiver. Powered by mains circuit 230 VAC 50/60 Hz.	XAS/301	£239.63

VIDEO SIGNAL DISTRIBUTORS

Article	Description	Code	List Price
	4-output video signal distributor Plastic housing for installation in electrical control panels (EN50022). Dimensions 4 low-profile DIN modules. Protection rating IP30. Complete with 8 input terminals for 4 twisted pairs from the receivers and 4 terminals for IN/OUT connection from the riser. Line impedance closure switch for each output. Power supply 14 - 18 VDC, 60mA.	XDV/304	£45.00
	4-output video signal distributor, amplified Plastic housing for installation in electrical control panels (EN50022). Dimensions 4 low-profile DIN modules. Protection rating IP30. Complete with 8 input terminals for 4 twisted pairs from the receivers and 4 terminals for IN/OUT connection from the riser. Line impedance closure switch for each output. Power supply 14 - 18 VDC, 60mA.	XDV/304A	£130.00

OTHER COMPONENTS

Article	Description	Code	List Price
	XIP system server XIP The server makes it possible to utilize the porter software, and also centralizes the access control and porter service functions. The unit is housed in a casing measuring 150x150x51mm (WxDxH). Protection rating IP20. The server features one RJ45 connector for 10/100 ethernet, one HDMI socket for connection to a digital monitor (for diagnostics only), four USB ports for FW updates, back-ups or exporting the event logs. The server is supplied complete with a license for the utilization of the XIP/Porter software. Power supply 230 VAC 600 mA.	ETI/SER XIP	£1,975.00
	Triple-relay unit for auxiliary devices (lights, apertures, XIP **acoustic alarms etc.).** Plastic housing for installation in electrical control panels (EN50022), dimensions 4 low-profile DIN modules. Protection rating IP30. The three relays, with a switching contact, are associated by default to the door aperture and AUX2 commands from the receivers. Switching power 5A resistive (2A inductive) at a maximum voltage of 250 VAC. Complete with 2 active grounded inputs for connection of pushbuttons for local actioning of two of the three relays and a button for programming the method of activation of the receivers with LED to signal data reception from the BUS line. Power supply 11/18 VDC 200 mA.	VLS/3	£155.00
	XIP Gateway for ethernet XIP The ethernet gateway makes it possible to use the data network for the creation of an access control system. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. The circuit board includes a quick connector for VA/08 power supply modules, two RJ45 ports in "switch" configuration for ethernet 10/100 and terminals for direct connection to an entry panel. Also features three configurable inputs and a serial port for maintenance and diagnostics. Three LEDs for signalling of communication and system status. The gateway supports the XIP and SIP protocols. It utilizes H.264 video compression and ULAV audio compression and can handle up to two audio/video calls simultaneously. Also includes BDDE and access control functions. Power supply 18VDC 250 mA.	ETI/XIP	£931.25
	Bidirectional video distributor, 8-unit slimline module with DIN guides. XIP Balanced video signal distributor for distribution or concentration of cable transmission lines.	XDV/303	£100.00
	Data line repeater for XIP system XIP Data line repeater for Bpt's XIP digital video entry system. Designed for installation on DIN guides either on the wall or built into watertight embedding boxes.	RIR/08	£86.25
	Device for restoring/regenerating modulated video signals XIP X1 **on X1 systems** Miniaturized housing for installation in junction boxes (dimensions 60x44x16 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with IN/OUT terminals for video signal and 2 switches for compensation of the signals according to the method of connection. Power supply directly from X1 bus line. Absorption 20 mA max.	XDV/300A	£61.25
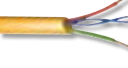
SYSTEM COMPONENTS

POWER SUPPLY MODULES

Article	Description	Code	List Price
	Table-top porter switchboard Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Fusion Black.	MITHO SB NF	£918.75
	Table-top porter switchboard Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Ice White.	MITHO SB BI	£918.75

PROGRAMMING SOFTWARE

Article	Description	Code	List Price
	Programming software for X1 and XIP systems **for Windows XP (SP2) operating system or later** System requirements: PC with PENTIUM III 700 MHz processor or better, 256 MB available RAM, minimum space on HD 40 MB, XVGA video card. Contents of box: USB cable, length 4.5m, 2 GB pen drive. Disk includes software and user manual.	PCS/XIP	£325.00
	License for the utilization of the porter software - single user Additional license for the utilisation of more than one porter (1 license per porter)	PCS/PORTER	£432.50

CONNECTOR CABLES

Article	Description	Code	List Price
	Cable with 1 mm2 twisted pair PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colours: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment). Supplied in 100m coils or cut lengths by the metre.	VCM/1D or VCM/1DCUT	£96.25 (100m drum) £1.07 (per meter)
	Cable with 0.28 mm2 twisted pair and 2 wires (section 1 mm2). PVC insulating sheath, diameter 8 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: white/light blue and light blue for twisted pair - red and green for power supply wires. Nominal impedance of twisted pair 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment), CEI 20-11 (latest amendment), CEI 20-37. Supplied in 100m coils or cut lengths by the metre.	VCM/2D or VCM/2DCUT	£165.00 (100m drum) £1.75 (per meter)
	Cable with three 0.28 mm2 twisted pairs and 2 wires **(section 1.5 mm2).** PVC insulating sheath, diameter 11 mm, colour: RAL 1021 yellow. Twisted pair, 70 mm twist pitch. Tinned copper wires. Colour: blue/blue-white, brown/brown-white, orange/orange-white for twisted pairs - red and green for power supply wires. Nominal impedance of twisted pairs 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 150 mm. Fully compliant with CEI 46-6 (latest amendment)/CEI 20-11 (latest amendment)/CEI 20-37. Supplied in 100m coils or cut lengths by the metre.	VCM/4D or VCM/4DCUT	£275.00 (100m drum) £3.00 (per meter)

SEAMLESS IP INTEGRATION WITH XIP FROM BPT

Following extensive of development and close technical cooperation initiated in 2010 between Crestron – world leader in AV and home automation system controls – and BPT – UK market leader of video door entry systems, it is now possible for seamless IP integration like nothing else available, truly cutting edge lifestyle control.

At a technical level, Crestron and BPT R&D departments have worked together to create a system with full interoperability between the BPT XiP video door entry system and Crestron home control. Without the requirement for any additional specialist units, the BPT and Crestron systems can work in complete harmony.

Using a shared network, the full functionality of the Xip system features such as IP porter facilities and entry control can be accessed seamlessly with Crestron touchscreen panels and remote devices, true integration.

With this level of Flexibility from two market leaders, the possibilities are limitless.

- Single network architecture
- Standard LAN platform
- Central switchboard management system
- Direct IP connection
- Easy to install

OUR NEW

CRESTRON

INTEGRATION DEMO SUITE IS NOW OPEN, CONTACT OUR HEMEL HEMPSTEAD BRANCH TO ARRANGE A VISIT

bpt

EXAMPLE INTEGRATION SETUP

POE Switch

10/100 LAN

ETI/ser

XiP PORTER

Vandal
Resistant

VA/08

ETI/XiP

Thangram
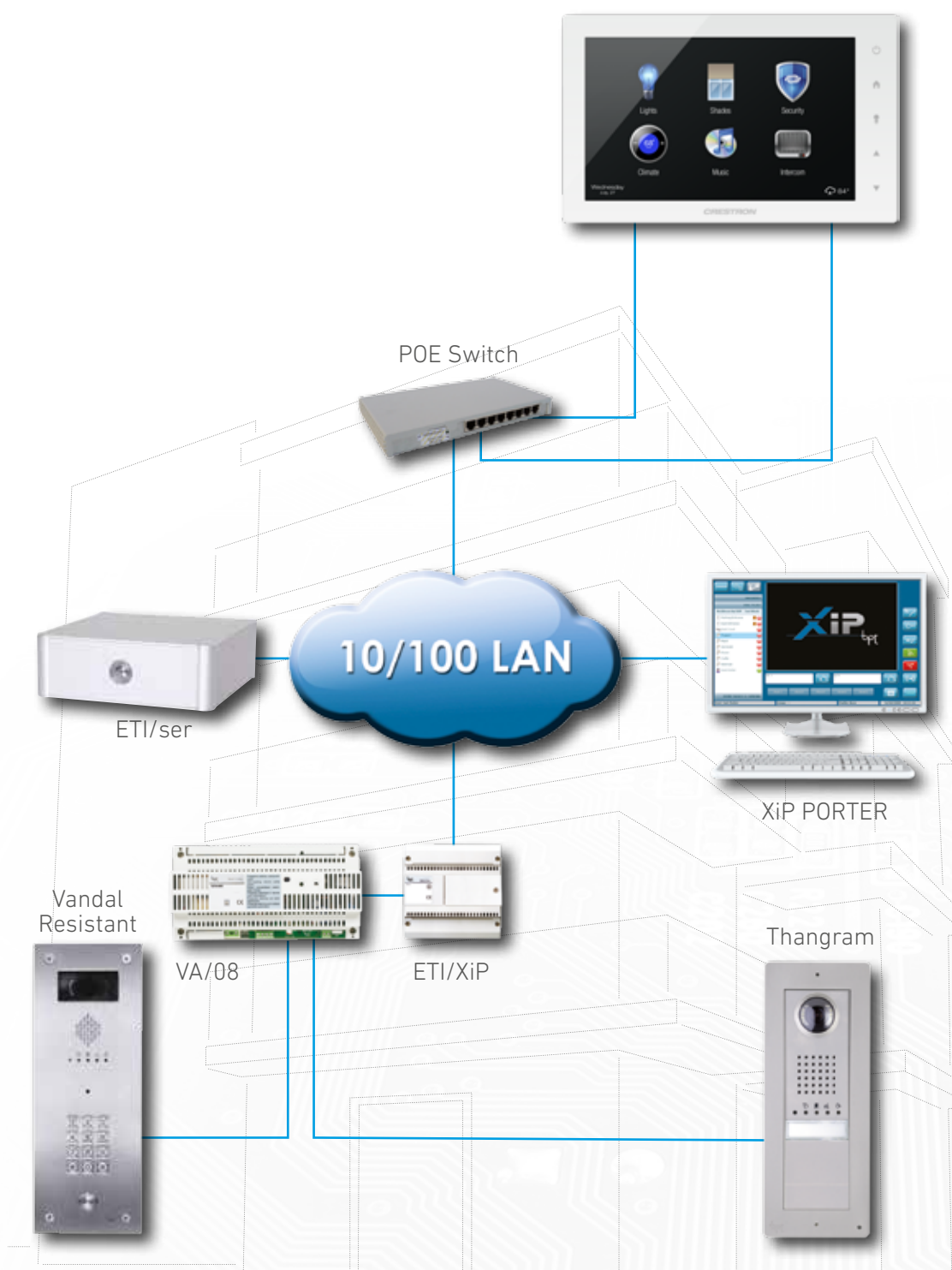
For more details visit www.bpt.co.uk/crestron

CRESTRON.

MULTIPLE ENTRANCES TO CRESTRON CONTROL WITH APP

INTERNET

POE SWITCH

Wireless Access
Point/Router

Layer 3 Switch
If Required

10/100 ethernet

non power over ethernet (poe)
lan network

Porter PC

Agata

B

D — To Access Control Equipment For
Interfacing Into Lift Control

ETI/SER XIP

VA/08

240VAC

ETI/XIP

A   A   A   A

Main
Entrance

Main
Entrance

Gym
Entrance

Car Lift
Entrance
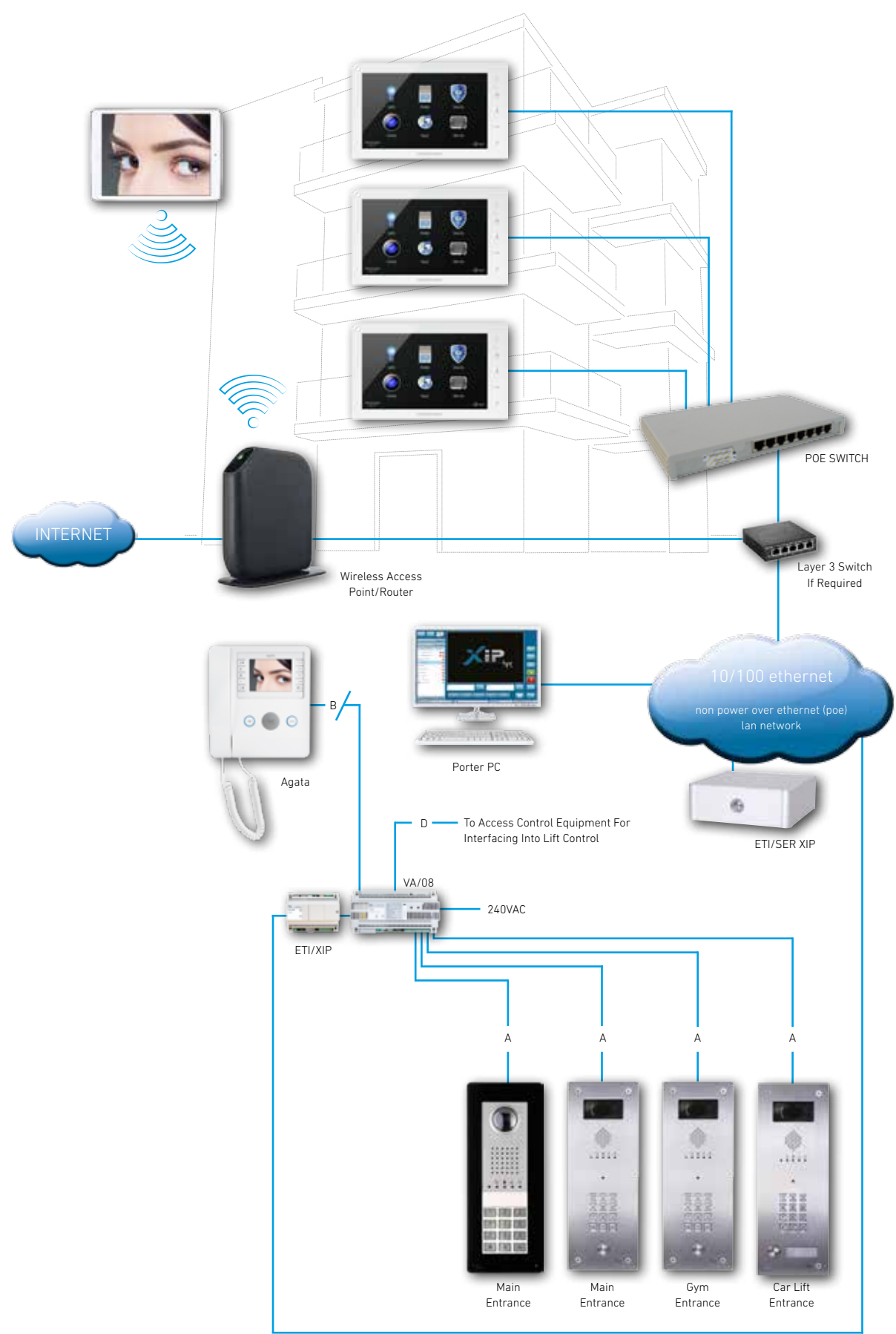
Contact BPT for
LAN requirements

CRESTRON®

108   bpt

SYSTEM COMPONENTS

POWER SUPPLY MODULES

Article	Description	Code	List Price
	Power supply module for video entry panel for XIP systems Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 12 low-profile DIN modules. Protection rating IP30. Complete circuit board for control of entry panels (18 VDC - 1.1A max) and for control of the video entry system riser (20 VDC - 0.8A max). Electronic circuit-breaker for protection against overloads/short-circuits. Terminals for control of riser bus and terminals for connection of an audio/video/bus for 4 entry panels. Open-collector outputs for auxiliary functions (AUX1 and AUX2). RS232 serial ports (for future functions) and mini USB for programming from PC (with LED indicators for 'connection' and 'data being transferred'). Serial connector for network devices. Manual system programming button with indicator LED. Jumper for access to programming of access control devices (cards and keys). Powered by mains circuit 230 VAC 50/60 Hz.	VA/08	£378.75

OTHER COMPONENTS

Article	Description	Code	List Price
	XIP system server The server makes it possible to utilize the porter software, and also centralizes the access control and porter service functions. The unit is housed in a casing measuring 150x150x51mm (WxDxH). Protection rating IP20. The server features one RJ45 connector for 10/100 ethernet, one HDMI socket for connection to a digital monitor (for diagnostics only), four USB ports for FW updates, back-ups or exporting the event logs. The server is supplied complete with a license for the utilization of the XIP/Porter software. Power supply 230 VAC 600 mA.	ETI/SER XIP	£1,975.00
	XIP Gateway for ethernet The ethernet gateway makes it possible to use the data network for the creation of an access control system. Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. The circuit board includes a quick connector for VA/08 power supply modules, two RJ45 ports in "switch" configuration for ethernet 10/100 and terminals for direct connection to an entry panel. Also features three configurable inputs and a serial port for maintenance and diagnostics. Three LEDs for signalling of communication and system status. The gateway supports the XIP and SIP protocols. It utilizes H.264 video compression and ULAV audio compression and can handle up to two audio/video calls simultaneously. Also includes BDDE and access control functions. Power supply 18VDC 250 mA.	ETI/XIP	£931.25

SELECTORS

Article	Description	Code	List Price
	Intercom receiver selector Plastic housing, for installation in electrical control panels (EN50022). Dimensions: 8 low-profile DIN modules. Protection rating IP30. Complete with 4 terminals for IN/OUT to the bus line, as well as two switches for access to programming and resetting of the data stored in memory. Powered by mains circuit 230 VAC 50/60 Hz.	VSE/301	£171.25
	Manual cyclic selector for CCTV for XIP system Miniaturized housing for installation in junction boxes (dimensions 85.5x60x21 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with 8 input terminals for video signal from 4 standard B&W or colour video cameras (standard CCIR/EIA or PAL/NTSC) and three switches for programming of the video cameras connected. Key for access to programming mode. 7 LEDs indicating "video camera connected"and programming/data status. Powered by external power supply module 12 VDC 0.09A max.	VSC/08	£93.75

INTEGRATION LICENCES

Article	Description	Code	List Price
	Crestron Integration un-lock licence For each Crestron unit within an apartment a licence is required to un-lock the integration features. Once activated, the Crestron unit can operate as a full function video apartment station. Including Porter call and call transfer.	VSE/301	£171.25
	Tablet/Smartphone Integration un-lock licence For each Tablet or smartphone device unit within an apartment a licence is required to un-lock the integration features. Once activated, the unit can operate as a full function video apartment station. Including Porter call and call transfer.	PCS/PORTER	£432.50

GSM:
TELEPHONE BASED ENTRY SOLUTION

The new GSM range from BPT is a telephone based door entry solution. Using GSM mobile or landline technology, this system is designed for applications where a hard wired door entry system cannot be installed. Telephone based technology is ideal for use in environments where there is an excessive distance between a gated entrance and the main building or applications where the entry panel needs to call a conventional or mobile phone.

The GSM entry panel range includes versions of all BPT entry panels as well as VR and brass panels manufactured in the UK to the highest standards. Bespoke units can also be produced to suit every requirement

bpt

Features

SINGLE TEXT
PROGRAMMING

LOW ENERGY CONSUMPTION

AUTOMATIC
TEXT ALERTS

EASY PROGRAMME
VOICE GUIDE

ADJUSTABLE TIME OUT
FUNCTION

EXTRA SECURE
CONFIGURATION

GSM OR PSTN?

GSM

Global System for Mobile communications (GSM) allows digital mobile phones to make connections with mobile telephone service providers.

Just like your mobile phone, our GSM entry system uses a SIM card, telephone number and service provider so that it can connect to any telephone, anywhere.

PSTN

The Public Switched Telephone Network (PSTN) which is also often referred to as a Landline.

Just like the standard telephone in your home, our PSTN (Landline) entry system has to be connected to its own cabled telephone line* and have its own telephone number so that it can communicate as your programming requires to any telephone, anywhere.

PSTN products are ideally suited to applications where GSM connectivity cannot be achieved.

*In most cases a second dedicated telephone line (with separate number) is required for operation.

GSM ENTRY OR GSM PLUS+

GSM ENTRY

The GSM Entry system is designed for applications where a hard wired door entry system cannot be installed.

Telephone based technology is ideal for use in environments where there is an excessive distance between a gated entrance and the main building or applications where the entry panel needs to call a conventional or mobile telephone.

GSM Entry is the perfect stand alone GSM system with one GSM SIM card required per entry panel.

GSM PLUS +

GSM PLUS+ is a hybrid telephone entry system which utilises the very best of different technologies.

Using GSM mobile or PSTN landline technology, this system is designed for applications where a hard wired door entry system cannot be installed.

Telephone based technology is ideal for use in environments where there is an excessive distance between a gated entrance and the main building or applications where the entry panel needs to call a conventional or mobile telephone.

GSM ENTRY

A Vandal Resistant Low Cost GSM Entry Solution

SYSTEM TYPE

TARGHA GSM ENTRY

The BPT GSM Entry range is a sleek and cost effective solution, providing basic entry functions. The polished stainless steel front plate and tough anthracite grey metal alloy surround, make the Targha VR GSM unit both stylish and hard wearing.

ONLY £680.00 // TAKGSM/1 KIT

FEATURES

- IP54 Rated
- GSM / GPRS Quad Band 900/1800 MHz
- microSIM card slot (Push-Pull mode)
- SMS programming
- Two relays
- Each relay, door opening time can be configured by SMS
- Up to 5 stored Numbers
- Relay Type: AC/DC dual use, Load Voltage (peak AC) 50V, Load current 500mA
- Illuminated
- Surface mounted

EXAMPLE SETUP

SECURE SIDE

TARGHA GSM ENTRY

SIM REQUIRED

PSU

LANDLINE OPERATION

MOBILE OPERATION

bpt

WALL-MOUNTED

207 mm

99 mm | 22 mm | 45,5 mm
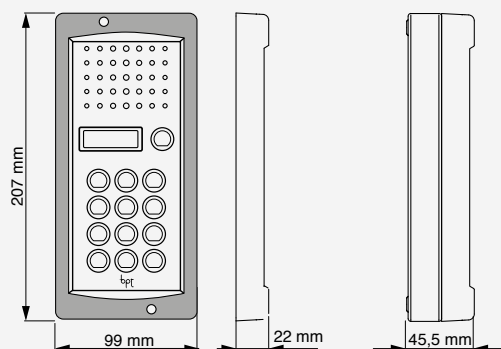
PRODUCT DIMENSIONS

	W (mm)	H (mm)	D (mm)
Wall Mounted	99	207	45.5
Embedded	99	207	22*

* Exact dimensions supplied with instructions

FLEXIBLE RELAYS

Each relay can be activated in 3 ways:

- During an active call by pressing asterisk or hash on the mobile keypad.
- By telephone : the GSM module recognizes the incoming number and activates the relay 1 or 2 (upon programming)
- Sending an SMS text to the device

COMPLETE KIT INCLUDES

Available with up to four buttons standard or two buttons with keypad

TAGSM/1
£550.00

TAGSM/2
£575.00

TAGSM/4
£667.50

- GSM Entry Panel
- PSU
- Antenna

SIM CARD IS NOT INCLUDED IN THE KIT AND WILL NEED TO BE PURCHASED SEPARATELY

STANDARD VERSION

Article	Keypad	Description	Code	List Price
	✗	Targha VR GSM 1 Button	TAGSM/1	£550.00
	✗	Targha VR GSM 2 Button	TAGSM/2	£575.00
	✗	Targha VR GSM 4 Button	TAGSM/4	£667.50

KEYPAD VERSION

Article	Keypad	Description	Code	List Price
	✓	Targha VR with Keypad GSM 1 Button	TAKGSM/1	£680.00
	✓	Targha VR with Keypad GSM 2 Button	TAKGSM/2	£750.00

bpt

GSM PLUS+

GSM PLUS+ is a hybrid telephone entry system which utilises the very best of different technologies.

This system is designed for higher security applications where a full hard wired door entry system cannot be installed. Alternatively it can be used in environments where there is an excessive distance between an entrance and the main building or where the entry panel needs to call a conventional or mobile telephone.

TWO SIMPLE PROGRAMMING METHODS

SMS

SMS - Short Message Service

Program or modify your entire system with a single text message.

IDA

IDA - Integrated Digital Assistant

Voice guided set up. Allows you to manually program the system following the pre-recorded instructions. This can be done at the unit itself via the keypad or remotely from your phone.

NEW VR CODED KEYPAD

GSM PROGRAMMABLE KEYPAD

- Designed for GSM PLUS+ systems and operates with a GSM or PSTN controller (no local power required).
- Can be used on its own with a controller or in mixed installs with GSM PLUS+ entry panels.
- 40 access codes, 4 release relays.
- Up to 3 keypads and 3 GSM PLUS+ entry panels sharing 1 controller.
- Simple programming.
- Remote PIN code change by SMS or IDA.
- Max. distance 50m using CAT5 cable.
- Surface mounted as standard. Flush mounted versions are available on request
- Compact surface mount design measuring: 83mm (W) x 128mm (H) x 44mm (D).

PANELS ONLY

UP TO 4 PANELS OPERATING FROM 1 CONTROLLER & 1 SIM CARD OR PSTN LINE
(EXCLUDING STARTER KITS)

EXAMPLE
SETUP

SECURE SIDE

GSM PLUS+

LANDLINE
OPERATION

GSM
CONTROL
UNIT

SIM
REQUIRED

MOBILE
OPERATION

PSU
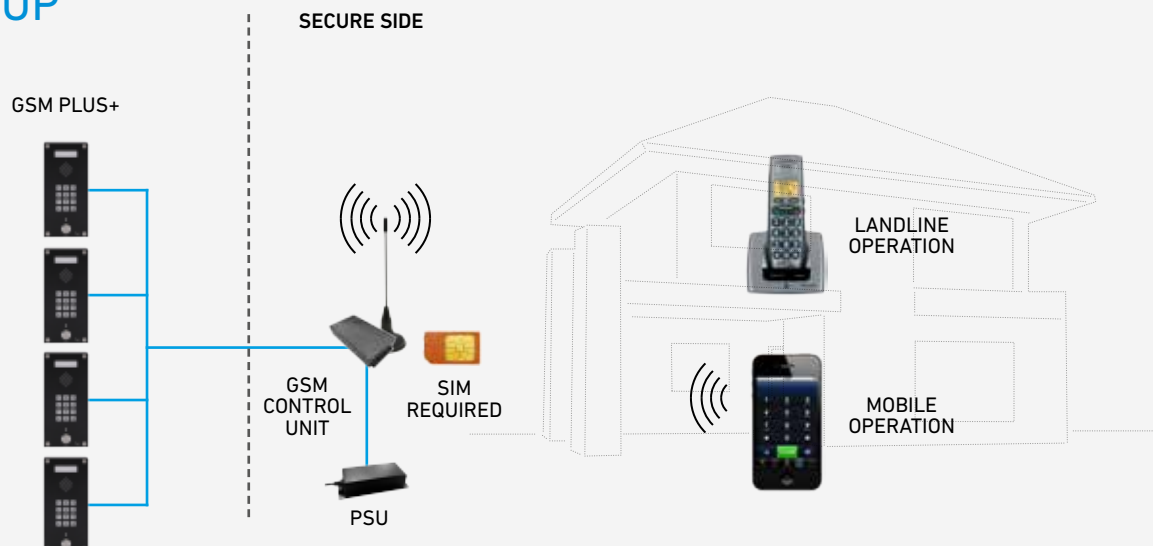
PANELS & CODED KEYPADS

UP TO 3 PANELS & 3 CODED KEYPADS, OPERATING FROM 1 CONTROLLER & 1 SIM CARD
OR PSTN LINE

EXAMPLE
SETUP

SECURE SIDE

GSM PLUS+

LANDLINE
OPERATION

GSM
CONTROL
UNIT

SIM
REQUIRED

MOBILE
OPERATION

PSU
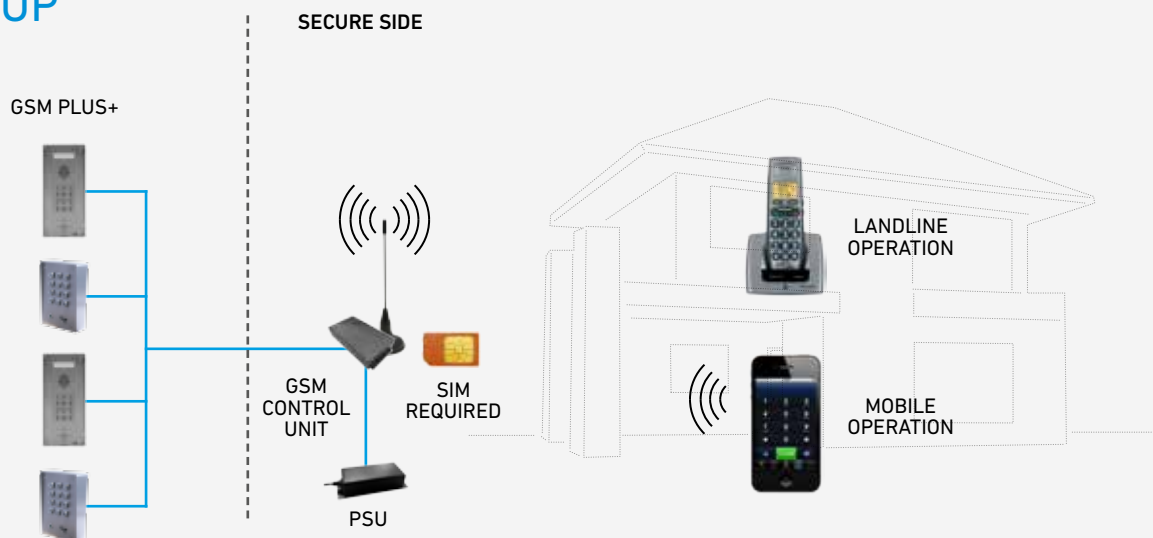
*For multi-panel systems please contact sales@bpt.co.uk

LITHOS GSM PLUS+

Versatile Feature Packed 1-4 Call Button Complete Kit

SYSTEM TYPE

LITHOS GSM PLUS+

A compact unit with brushed stainless steel frontplate in a modern design. Up to four illuminated push buttons, can be fitted giving maximum flexibility without the need to change the panel. Capable of storing up to ten numbers with dual flexible relays and all of the advanced features of BPT GSM PLUS+. 12vDC @460mA active current (180mA in standby)
PSTN Landline connection kit also available

GSM PLUS+ FEATURES

• Programmable in a single text
• Separate control unit on secure side
• Quick remote entry release
• Timed text alerts (automatic & AUX input)
• Entry preview
• Easy programe voice guide
• Low energy consumption
• Cost saving time out function
• Unique security pin
• Flexible dual relays
• Surface mounted
• Single entrance or multi-entrance modes

ONLY £595.00 // LIGSM KIT

ONE FLEXIBLE KIT, MULTIPLE CONFIGURATIONS

EXAMPLE SETUP

SECURE SIDE

EXTLCT/0

GSM/CONT

SIM REQUIRED

GSM/LPSU

LANDLINE OPERATION

MOBILE OPERATION

WALL-MOUNTED

PRODUCT DIMENSIONS

	W (mm)	H (mm)	D (mm)
Wall Mounted	99	207	44
Embedded	135	243	6.5(*)/(**)

(*) Embedding box: depth 54.5 mm; protrusion from wall: 6.5 mm
(**) Frame included
FOR FLUSH MOUNTING LSI & LCI UNITS REQUIRED

ONE FLEXIBLE KIT, MULTIPLE CONFIGURATIONS

Lithos GSM PLUS+ is supplied in a single kit with a variety of push button types and an optional stainless steel surround, making the Lithos GSM PLUS+ truly vesatile. Each kit can be configured for either single or multi button use.

1
1 button

1
2
2 buttons

1	2
3	4
3-4 buttons
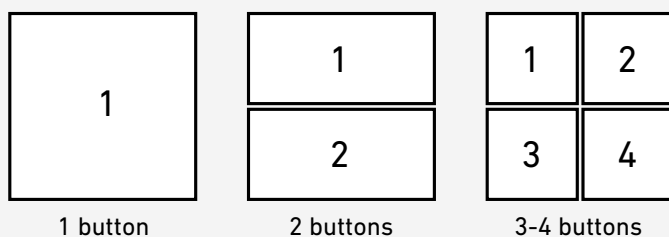
COMPLETE KIT INCLUDES

EXTLCT/0

LRS Rainshield

GSM/LPSU

GSM/CONT

DPD Double Pushbutton

DPS Single Pushbutton

DPH Double-height Pushbutton

GSM/Aerial

- Lithos Panel
- Rainshield
- Control Unit (GSM)
- PSU
- Antenna
- 1x Double Height Pushbutton
- 2x Single Pushbutton
- 2x Double Pushbutton

SIM CARD IS NOT INCLUDED IN THE KIT AND WILL NEED TO BE PURCHASED SEPARATELY

COMPLETE KIT

Article	Description	Code	List Price
	1-4 button Lithos GSM PLUS+ KIT (Requires SIM card)	LIGSM	£595.00

ACCESSORIES

Article	Description	Code	List Price
	Embedding frame for Lithos	LCI	£13.75
	Plastic embedding box for Lithos	LSI	£6.25

THANGRAM GSM PLUS+

Versatile Feature Packed 1-8 Call Button With Coded Access Keypad Complete Kit

SYSTEM TYPE

THANGRAM GSM PLUS+

The Thangram/TEL for GSM PLUS+ is a modular unit with metal effect front plate and high gloss black surround in a modern design. Up to eight illuminated push buttons can be fitted or two buttons and coded access keypad giving maximum flexibility without the need to change the panel. Capable of storing up to ten numbers with dual flexible relays and all of the advanced features of BPT GSM PLUS+. 12vDC @460mA active current (180mA in standby). PSTN Landline connection kit also available

GSM PLUS+ FEATURES

- Programmable in a single text
- Separate control unit on secure side
- Quick remote entry release
- Timed text alerts (automatic & AUX input)
- Entry preview
- Easy programe voice guide
- Low energy consumption
- Cost saving time out function
- Unique security pin
- Flexible dual relays
- Surface mounted
- Single entrance or multi-entrance modes

ONLY £698.75 // THKGSM KIT

ONE FLEXIBLE KIT, MULTIPLE CONFIGURATIONS

EXAMPLE SETUP

SECURE SIDE

EXTDCT/0

GSM/CONT

SIM REQUIRED

GSM/LPSU

LANDLINE OPERATION

MOBILE OPERATION
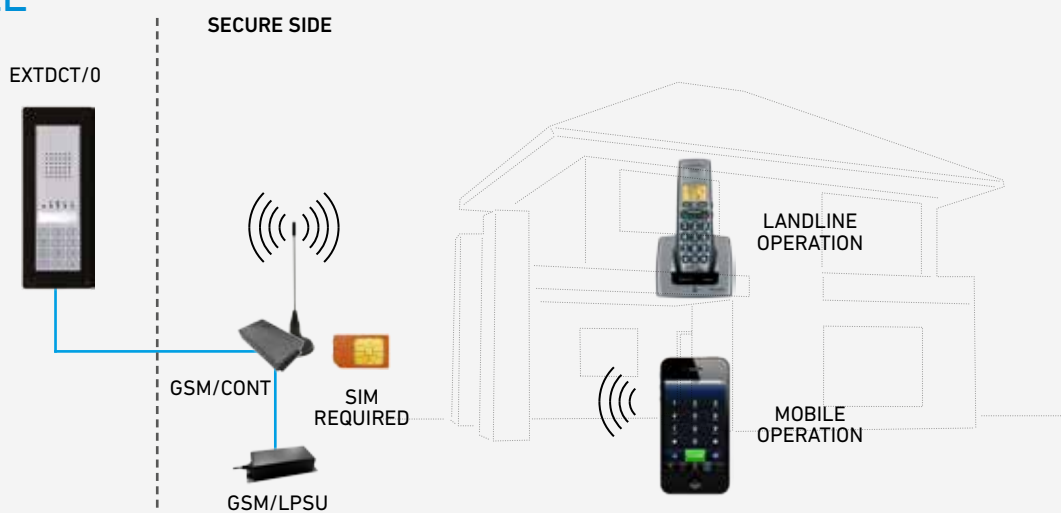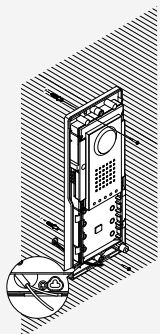
WALL-MOUNTED

RECESSED
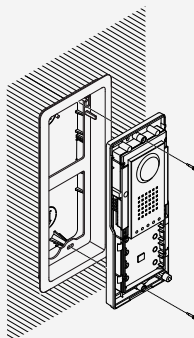
COMPLETE KIT INCLUDES

EXTDCT/0

GSM/Aerial

GSM/LPSU

GSM/CONT

THKP
Keypad

DTH ME
Double height
blank

DPD
Double
Pushbutton

DPS
Single
Pushbutton

DPH
Double-height
Pushbutton

PRODUCT DIMENSIONS

	W (mm)	H (mm)	D (mm)
Wall Mounted	99	244	25
Embedded	127	281	2 (*)

*Embedding box depth 54.5 mm; projecting from the wall 2 mm.
FOR FLUSH MOUNTING DSI & DCI UNITS REQUIRED

ONE FLEXIBLE KIT,
MULTIPLE CONFIGURATIONS

Thangram GSM PLUS+ is supplied in a kit with a selection of push button types and an optional keypad, making the Thangram GSM PLUS+ truly versatile. Each kit can be configured for either single or multi button use.

1
DBL HEIGHT BLANK
1 button

1
2
2 button

1
2
3
UNUSED
3 button

1
2
3
4
4 button

1 2
3 4
5 6
7 8
5 – 8 button

1 button
with keypad

2 button
with keypad
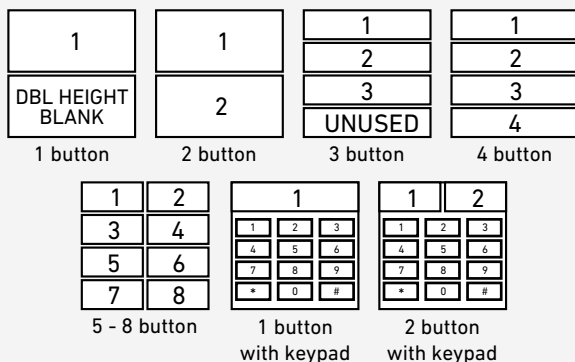
- Thangram Panel
- Control Unit (GSM)
- PSU
- Antenna
- 1x Thangram Coded Keypad
- 1x Double Height Blank
- 4x Double Pushbutton
- 4x Single Pushbutton
- 2x Double Height Pushbutton

SIM CARD IS NOT INCLUDED IN THE KIT AND WILL NEED TO BE PURCHASED SEPARATELY

COMPLETE KIT

Article	Description	Code	List Price
	1 flexible kit (1-8 buttons or 1 button keypad/2 button keypad). Thangram GSM PLUS+	THKGSM	£698.75

ACCESSORIES

Article	Description	Code	List Price
	Embedding frame for Thangram	DCI	£11.25
	Plastic embedding box for Thangram	DSI	£5.00

STANDARD PANEL FINISHES
(CAN BE USED FOR GSM PLUS+ OR PSTN)

VR - Brushed Stainless Steel

A Brushed Stainless Steel Finish

Produced from 304 grade stainless steel and engineered to the highest standards. Brushed stainless steel has proven to be durable and versatile to compliment any surrounding. Panels are finished with high precision black laser engraving.
(316 marine grade steel version available at additional cost).

BL - Satin Black

A Sleek Semi Gloss Finish

Manufactured from 304 grade stainless steel and powder coated with a hard wearing semi gloss black powder coat. The BL range of panels are the last word in understated elegance. High precision laser engraving in silver provides contrast and impact.

STANDARD PANEL FINISHES
(CAN BE USED FOR GSM PLUS+ OR PSTN)

HP – Highly Polished Steel

A Stylish Mirror Finish

Made with 304 grade stainless steel polished to achieve a mirrored chrome effect. The HP panels provide an alternative to brushed steel for applications requiring a less industrial look without any compromise. Panels are finished with high precision black laser engraving.

BR – Classic Brass

An Alternative To Steel.

Produced from CZ108 unlaquered solid brass to achieve a timeless appearance. BR panels offer an alternative to the vandal resistant range to compliment many heritage applications. Panels are finished with high precision black laser engraving.

VANDAL RESISTANT GSM PLUS+

Brushed Stainless Steel Finish

SYSTEM TYPE

The VR GSM PLUS+ kit contains a hard wearing vandal resistant panel finished in brushed stainless steel with user name windows. 1-4 button kits are available and with illuminated coded access keypad if required. Capable of storing up to ten numbers with dual flexible relays and all of the advanced features of BPT GSM PLUS+. 12vDC @460mA active current (180mA in standby.
PSTN Landline connection kit also available.

ADVANCED ENTRY PANEL

GSM PLUS+ FEATURES

- Programmable in a single text
- Secure separate control unit
- Quick remote entry release
- Timed text alerts (automatic & AUX input)
- Entry preview
- Easy programe voice guide
- Low energy consumption
- Cost saving time out function
- Unique security pin
- Flexible dual relays
- Surface mounted
- Single entrance or multi-entrance modes

STANDARD ENTRY PANEL

SIM CARD IS NOT INCLUDED IN THE KIT AND WILL NEED TO BE PURCHASED SEPARATELY

DIMENSIONS

Button/Keypad	Dimensions
1 Button (Found in starter kit)	175mm H x 100mm W x 40mm D
1 Button with Keypad and 2 Button	225mm H x 100mm W x 45mm D
3 and 4 button (with or without keypad)	295mm H x 100mm W x 45mm D

STANDARD

Article	Keypad	Description	Code	List Price
	✗	1 button GSM PLUS+ starter kit (Requires SIM card) ***NOT EXPANDABLE***	VRGSM/1	£583.75
	✗	2 button GSM PLUS+ advanced kit (Requires SIM card)	VRGSM/2	£680.00
	✗	3 button GSM PLUS+ advanced kit (Requires SIM card)	VRGSM/3	£700.00
	✗	4 button GSM PLUS+ advanced kit (Requires SIM card)	VRGSM/4	£708.75

* For 1 button GSM PLUS+ adavanced kits please contact sales@bpt.co.uk

KEYPAD

Article	Keypad	Description	Code	List Price
	✓	1 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	VRKGSM/1	£745.00
	✓	2 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	VRKGSM/2	£755.00
	✓	3 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	VRKGSM/3	£775.00
	✓	4 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	VRKGSM/4	£783.75

Note: Kits supplied surface mount, Flush versions available

SATIN BLACK GSM PLUS+

Satin Black Finish

SYSTEM TYPE

The BL GSM PLUS+ kit contains a hard wearing vandal resistant panel finished in Satin Black with user name windows. 1-4 button kits are available and with illuminated coded access keypad if required. Capable of storing up to ten numbers with dual flexible relays and all of the advanced features of BPT GSM PLUS+. 12vDC @460mA active current (180mA in standby).
PSTN Landline connection kit also available.

GSM PLUS+ FEATURES

- Programmable in a single text
- Secure separate control unit
- Quick remote entry release
- Timed text alerts (automatic & AUX input)
- Entry preview
- Easy programe voice guide
- Low energy consumption
- Cost saving time out function
- Unique security pin
- Flexible dual relays
- Surface mounted
- Single entrance or multi-entrance modes

ADVANCED ENTRY PANEL

**STANDARD ENTRY PANEL**

SIM CARD IS NOT INCLUDED IN THE KIT AND WILL NEED TO BE PURCHASED SEPARATELY

DIMENSIONS

Button/Keypad	Dimensions
1 Button (Found in starter kit)	175mm H x 100mm W x 40mm D
1 Button with Keypad and 2 Button	225mm H x 100mm W x 45mm D
3 and 4 button (with or without keypad)	295mm H x 100mm W x 45mm D

STANDARD

Article	Keypad	Description	Code	List Price
	✗	1 button GSM PLUS+ starter kit (Requires SIM card) **NOT EXPANDABLE**	BLGSM/1	£605.00
	✗	2 button GSM PLUS+ advanced kit (Requires SIM card)	BLGSM/2	£700.00
	✗	3 button GSM PLUS+ advanced kit (Requires SIM card)	BLGSM/3	£720.00
	✗	4 button GSM PLUS+ advanced kit (Requires SIM card)	BLGSM/4	£730.00

* For 1 button GSM PLUS+ adavanced kits please contact sales@bpt.co.uk

KEYPAD

Article	Keypad	Description	Code	List Price
	✓	1 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	BLKGSM/1	£766.25
	✓	2 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	BLKGSM/2	£775.00
	✓	3 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	BLKGSM/3	£795.00
	✓	4 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	BLKGSM/4	£805.00

Note: Kits supplied surface mount, Flush versions available

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HIGHLY POLISHED GSM PLUS+

Highly Polished Finish

SYSTEM TYPE

The HP GSM PLUS+ kit contains a hard wearing vandal resistant panel finished in highly polished stainless steel with user name windows. 1-4 button kits are available and with illuminated coded access keypad if required. Capable of storing up to ten numbers with dual flexible relays and all of the advanced features of BPT GSM PLUS+. 12vDC @460mA active current (180mA in standby) **PSTN Landline connection kit also available.**

ADVANCED ENTRY PANEL

STANDARD ENTRY PANEL

GSM PLUS+ FEATURES

- Programmable in a single text
- Secure separate control unit
- Quick remote entry release
- Timed text alerts (automatic & AUX input)
- Entry preview
- Easy programe voice guide
- Low energy consumption
- Cost saving time out function
- Unique security pin
- Flexible dual relays
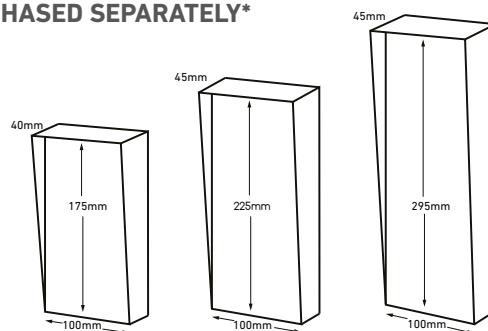- Surface mounted
- Single entrance or multi-entrance modes

SIM CARD IS NOT INCLUDED IN THE KIT AND WILL NEED TO BE PURCHASED SEPARATELY

DIMENSIONS

Button/Keypad	Dimensions
1 Button (Found in starter kit)	175mm H x 100mm W x 40mm D
1 Button with Keypad and 2 Button	225mm H x 100mm W x 45mm D
3 and 4 button (with or without keypad)	295mm H x 100mm W x 45mm D

STANDARD

Article	Keypad	Description	Code	List Price
	✗	1 button GSM PLUS+ starter kit (Requires SIM card) **NOT EXPANDABLE**	HPGSM/1	£662.50
	✗	2 button GSM PLUS+ advanced kit (Requires SIM card)	HPGSM/2	£758.75
	✗	3 button GSM PLUS+ advanced kit (Requires SIM card)	HPGSM/3	£778.75
	✗	4 button GSM PLUS+ advanced kit (Requires SIM card)	HPGSM/4	£787.50

* For 1 button GSM PLUS+ adavanced kits please contact sales@bpt.co.uk

KEYPAD

Article	Keypad	Description	Code	List Price
	✓	1 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	HPKGSM/1	£823.75
	✓	2 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	HPKGSM/2	£833.75
	✓	3 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	HPKGSM/3	£853.75
	✓	4 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	HPKGSM/4	£862.50

Note: Kits supplied surface mount, Flush versions available

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CLASSIC BRASS GSM PLUS+

Classic Brass Finish

SYSTEM TYPE

The BR GSM PLUS+ kit contains a hard wearing solid brass unlaquered panel with user name windows. 1-4 button kits are available and with illuminated coded access keypad if required. Capable of storing up to ten numbers with dual flexible relays and all of the advanced features of BPT GSM PLUS+. 12vDC @460mA active current (180mA in standby)
PSTN Landline connection kit also available

GSM PLUS+ FEATURES

- Programmable in a single text
- Secure separate control unit
- Quick remote entry release
- Timed text alerts (automatic & AUX input)
- Entry preview
- Easy programe voice guide
- Low energy consumption
- Cost saving time out function
- Unique security pin
- Flexible dual relays
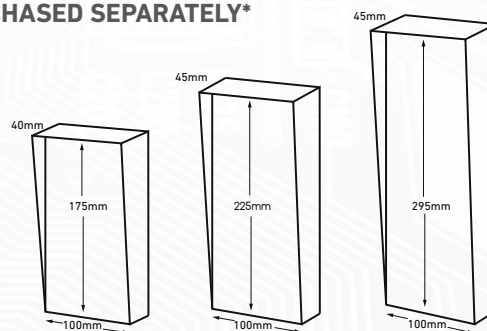- Surface mounted
- Single entrance or multi-entrance modes

ADVANCED ENTRY PANEL

STANDARD ENTRY PANEL

SIM CARD IS NOT INCLUDED IN THE KIT AND WILL NEED TO BE PURCHASED SEPARATELY

DIMENSIONS

Button/Keypad	Dimensions
1 Button (Found in starter kit)	175mm H x 100mm W x 40mm D
1 Button with Keypad and 2 Button	225mm H x 100mm W x 45mm D
3 and 4 button (with or without keypad)	295mm H x 100mm W x 45mm D

STANDARD

Article	Keypad	Description	Code	List Price
	✗	1 button GSM PLUS+ starter kit (Requires SIM card) **NOT EXPANDABLE**	BRGSM/1	£690.00
	✗	2 button GSM PLUS+ advanced kit (Requires SIM card)	BRGSM/2	£788.75
	✗	3 button GSM PLUS+ advanced kit (Requires SIM card)	BRGSM/3	£811.25
	✗	4 button GSM PLUS+ advanced kit (Requires SIM card)	BRGSM/4	£822.50

* For 1 button GSM PLUS+ adavanced kits please contact sales@bpt.co.uk

KEYPAD

Article	Keypad	Description	Code	List Price
	✓	1 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	BRKGSM/1	£851.25
	✓	2 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	BRKGSM/2	£863.75
	✓	3 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	BRKGSM/3	£886.25
	✓	4 button GSM PLUS+ advanced kit with coded access keypad (Requires SIM card)	BRKGSM/4	£897.50

Note: Kits supplied surface mount, Flush versions available

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PSTN LANDLINE KITS

SYSTEM TYPE

The BPT PSTN is a sleek and cost effective PSTN solution, providing all of the basic functions of a PSTN unit in a range of hard wearing entry panels.

PSTN FEATURES

- PSTN Modem: Conforms to TBR21
- PSTN cable connector: RJ/11 socket with line to pins 2 & 5
- Length of supplied PSTN Cable: Approximately 3 meters
- Operational voltage: 12Vdc (Reverse polarity protected)
- Current consumption: Standby = 180mA; Active = 460mA
- Operational temperature range: -20°C to +55°C
- Controller dimensions: 99 x 185 x 35mm (W x H x D)
- Installation requirements: Controller protected from elements
- Programming options: Remote by telephone using IDA (Integrated Digital Assistant) / Direct programming using IDA (Requires entry panel with keypad)
- Programming inactivity timeout: 5 min
- Number of entry panels that can be connected to one controller: Up to 4 (Provided that all call buttons and call orders on each entry panel mirror each other)
- Release relay ratings: MOSFET voltage free outputs Switching Max 60V ac or dc @ 500mA
- Number of release relays: 2 (Can be extended to 4 with a relay expansion module)

- Release relay adjustable time period: 1 to 256 Sec or toggle on/off
- Number of telephone numbers dialled per call button: Up to 10 (With 10 to 240 Sec individually set calling time per number)
- Number of call buttons: Up to 24 (Available on a selection of special order entry panels only)
- Number of call buttons on telephone Lithos: Up to 4
- Number of call buttons on telephone Thangram: Up to 8 (without a keypad) or 2 with a keypad
- Fixed conversation time: 60 Sec (automatic hang-up)
- Call inactivity timeout: 10 Sec
- Keypad coded access: Up to 40 codes shared across all relays
- Keypad access code length: Up to 8 digits including # or * (Hash & Star)
- Unique 6 digit factory set serial number security PIN, required to enter into programming
- Two remote entry release by telephone call (Dial to open) modes
- 400 caller ID recognised Dial to Open numbers can be saved

EXAMPLE SETUP

SECURE SIDE

THANGRAM/TEL

PHONE NETWORK

PSTN LINE*

PSTN CONTROL UNIT

LANDLINE

PSU
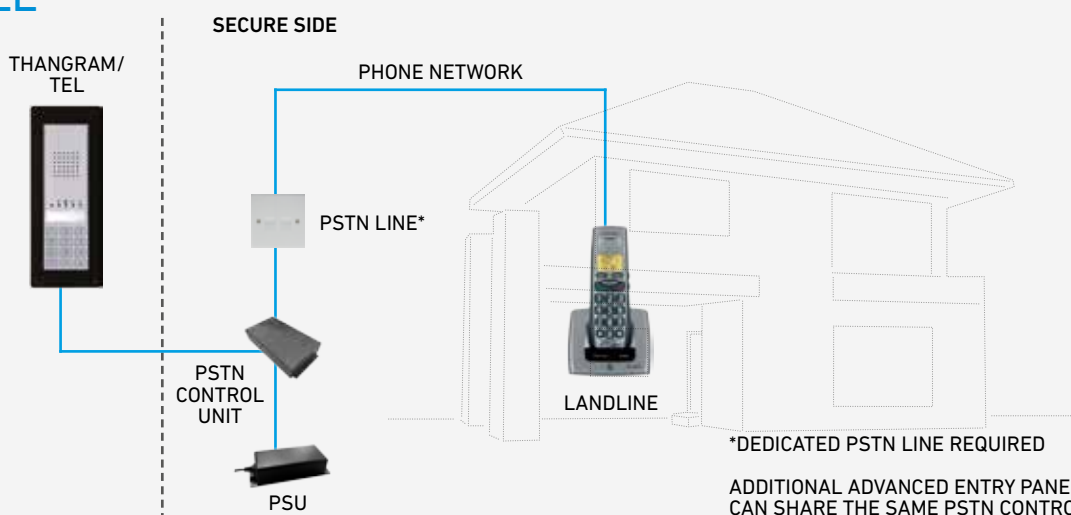
*DEDICATED PSTN LINE REQUIRED

ADDITIONAL ADVANCED ENTRY PANELS CAN SHARE THE SAME PSTN CONTROLER AND PSTN TELEPHONE LINE

PSTN LANDLINE KITS AVAILABLE IN THE FOLLOWING KIT OPTIONS

THKLND

VRLND/1

BLLND/1

LILND

HPLND/1

BRLND/1

LITHOS PSTN

Description	Code	List Price
Lithos landline kit	LILND	£560.00

THANGRAM PSTN

Description	Code	List Price
Thangram landline kit	THKLND	£632.50

VANDAL RESISTANT PSTN

Description	Code	List Price
1 button surface mount with name window landline starter kit	VRLND/1	£517.50
2 button surface mount with name window landline advanced kit	VRLND/2	£613.75

SATIN BLACK PSTN

Description	Code	List Price
1 button surface mount with name window landline starter kit	BLLND/1	£538.75
2 button surface mount with name window landline advanced kit	BLLND/2	£633.75

HIGHLY POLISHED PSTN

Description	Code	List Price
1 button surface mount with name window landline starter kit	HPLND/1	£596.25
2 button surface mount with name window landline advanced kit	HPLND/2	£692.50

CLASSIC BRASS PSTN

Description	Code	List Price
1 button surface mount with name window landline starter kit	BRLND/1	£623.75
2 button surface mount with name window landline advanced kit	BRLND/2	£722.50

TERMS & CONDITIONS

TERMS AND CONDITIONS
General conditions of sale of CAME BPT UK Ltd

1. INTERPRETATION
"Buyer" means the person firm or company who buys or agrees to buy the Goods from the Seller;
"Buyer's Premises" means the Buyer's premises detailed on the quotation given by the Seller to the Buyer in respect of the Goods;
"Delivery Date" means the date specified by the Seller when the Goods are to be delivered;
"Conditions" means these terms and conditions of sale;
"Contract" means the contract for the sale by the Seller and purchase by the Buyer of Goods;
"Goods" means all goods supplied by the Seller to the Buyer pursuant to the Contract;
"Price" means the price of the Goods plus VAT plus Additional Charges as referred to in Conditions 6.3 and 4.8;
"Seller" means CAME BPT UK Ltd, whose registered office is: Liberta House, Maxted Road, Hemel Hempstead.HP2 7DX
"Surcharge" means the sum of £10.00 (ten pounds);
"Wasted Time Rate" means the charge for wasted time at the Seller's standard rate for wasted time of £1 (one pound) per minute up to and including 30 (thirty) minutes and thereafter
at a charge of £2 (two pounds) per minute, or such other charge as notified to the
Buyer from time to time;
"Writing" includes facsimile transmission but excludes writing on the screen of a visual display unit or other similar device.

2. BASIS OF SALE

2.1 These Conditions shall apply to the sale by the Seller of all Goods purchased by the Buyer and these Conditions shall govern the contract to the exclusion of any other terms and conditions introduced or submitted by the Buyer.
2.2 No variation of these Conditions may be given by any of the Seller's employees unless confirmed in writing by an authorised director of the Seller and no collateral or supplemental contract may be made or construed unless confirmed in writing by an authorised director of the Seller on the Seller's official stationery.
Any tenders or quotations submitted to the Buyer shall remain valid for the period stated therein, but if no period is specified such tenders and quotations shall be valid for [30] days from the date thereof. All tenders and quotations shall be subject to these Conditions. Any tenders or quotations will not constitute an offer and the Contract shall be made when the Seller acknowledges the order placed by the Buyer in writing and not before. Where the Seller acknowledges or confirms the details of the Contract in writing, the Buyer shall be under a duty to bring any discrepancies to the Seller's notice immediately, and if the Buyer fails to do so, the Buyer shall, if the Seller so elects, be bound by the details contained mentioned or referred to in the written confirmation of the Contract.
Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other documentation or information issued by the Seller shall be subject to correction without any liability on the part of the Seller.
The Seller's employees or agents are not authorised to make any representations concerning the Goods unless confirmed by an authorised director of the Seller in writing. In entering into the Contract the Buyer acknowledges that it does not rely on any such representations which are not so confirmed, save that nothing in these Conditions shall exclude the Sellers liability for fraudulent misrepresentation. No order which has been accepted by the Seller may be cancelled by the Buyer except with the agreement in writing of the Seller and on terms that the Buyer shall indemnify the Seller in full against all loss (including loss of profit), costs (including the cost of all labour and materials used), damages, charges and expenses incurred by the Seller as a result of cancellation.
2.9 The Seller reserves the right to make any changes to the Goods:-
2.9.1 Which are required so that the Goods conform with any applicable statutory or EU requirement; or
2.9.2 Where such changes to the Goods do not materially affect the quality or performance of the Goods.

3. SAFETY

Any Goods supplied by the Seller must be handled correctly. The Buyer must ensure that all
appropriate safety precautions are taken and that its staff is aware of and comply with all storage and usage instructions.

4. DELIVERY

4.1 Unless otherwise agreed by the Seller in writing, delivery shall take place at the Buyer's Premises. The Seller shall reasonably endeavour to deliver the Goods to the Buyer's Premises or such other address as may be agreed between the parties in writing on the date indicated by the Seller or the date agreed between the parties, but the time of delivery or performance shall not be of the essence and if despite those endeavours, the Seller is unable for any reason to fulfill any delivery of the Goods on the date so indicated, the Seller shall not be deemed to be in breach of contract or have any liability to the Buyer.
The Seller shall notify the Buyer when the Goods are ready for delivery. In the event that the Buyer shall not be able to take delivery of the Goods within [10] working days from the date of receipt of such notification, the Seller shall be entitled, but not obliged, to arrange storage of the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage.
The Buyer shall provide the Seller with clear delivery instructions in the event that the Seller agrees to deliver the Goods to any point other than the Seller's premises. Upon delivery the Buyer will sign a delivery note which will be conclusive evidence that delivery of the Goods has been made.
4.5 The Seller shall have the right to deliver any Goods ordered in installments.
4.6 Failure by the Seller to deliver any one or more of the installments in accordance with these Conditions or any claim by the Buyer in respect of the Goods delivered in any one

or more installments shall not entitle the Buyer either to treat the Contract as a whole as repudiated or to reject or refuse to take delivery of any of the Goods delivered in any other Installment.
4.7 If the Seller fails to deliver the Goods (or any installment thereof) for any reason other than any cause beyond the Seller's reasonable control or the Buyer's fault, and the Seller is accordingly liable to the Buyer, the Seller's liability shall be limited to the excess (if any) of the cost to the Buyer (in the cheapest available market) of similar goods to replace those not delivered over the Price of the Goods.
4.8 The Buyer shall be ready to accept delivery on the agreed Delivery Date and unless the Seller agrees otherwise, the Seller shall unload the Goods. The Buyer shall ensure that at least one representative is available to assist the Seller during the unloading of the Goods and the Buyer shall be charged the Wasted Time Rate and any other expenses incurred by the Seller ("Additional Charges") for:-
4.8.1 Wasted time for any delay;

4.8.2 Each repeat delivery where the Seller or Seller's carrier leaves the delivery point and subsequently returns to the delivery point with the Goods as a result of the Buyer's inability or unwillingness to accept delivery and/or delay in unloading the Goods and/or the Buyer's failure to provide a representative to assist the Seller in the unloading of the Goods.
4.9The Buyer shall notify any loss of or damage to the Goods in writing to the Seller and to the carriers (if applicable) within 3 days of the Delivery Date in respect of any damage of the Goods and within 10 days of the Delivery Date in respect of any loss of the Goods, which will enable the Seller to comply with the carrier's conditions affecting such loss or damage. Where Goods are delivered by carrier, unless the Goods are checked on receipt, the carrier's documentation shall be endorsed "unexamined".
4.10 If the Buyer fails to take delivery of the Goods (otherwise than by reason of the Seller's fault) or fails to give the Seller adequate instructions for delivery then, without prejudice to any other right or remedy available to the Seller, the Seller may:-
4.10.1 Store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage and the Goods shall remain in all aspects at the Buyer's risk; or
4.10.2 Sell the Goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) charge the Buyer for any shortfall below the Price under the contract; be entitled to full payment in respect of the Goods refused; without prejudice to any right on the Seller's part to damages or payment in respect thereof, the Seller shall be entitled to cancel any further consignments under the contract.
4.10.3 CAME BPT reserves the right to charge carriage on all deliveries. Charge out rates may vary depending on order value, shipment size, weight, delivery timescales and shipment location.
4.10.4 Returned goods save as provided in and subject to the provisions in sub-clause 4.9 and 9.2 will attract a 10% handling charge and must be accompanied by a copy of the original sales invoice and will only be accepted if returned within 30 days from the date of delivery and In perfect unused condition.

5. RISK

Risk of damage to or loss of the Goods shall pass to the Buyer at the time of delivery, or if the Buyer wrongfully fails to take delivery, the time when the Seller has tendered delivery of the Goods.

6. PRICE

6.1 The Price for the Goods shall be the price specified by the Seller in the quotation and unless otherwise stated prices are quoted:-
6.1.1 Exclusive of Value Added Tax (which the Buyer shall be additionally liable to pay to the Seller); and
6.1.2 On an Ex-Works basis.
6.2 Where the Seller is required to deliver the Goods on any basis other than ExWorks unless any specific fee or charge is agreed by the Buyer with the Seller, the Seller reserves the right to charge a reasonable fee to the Buyer for the cost of any carriage and/or other expenses incurred by the Seller in relation to the delivery of the Goods ("Additional Charges").
6.3 The Buyer shall bear all additional costs incurred by the Seller on account of any materials or designs supplied by the Buyer requiring any additional process not taken into account in determining the Price.

7. PAYMENT TERMS

7.1 The payment terms in this Condition apply save to the extent that they are inconsistent with any specific payment terms agreed in writing between the Seller and the Buyer.
7.2 The Buyer shall pay the Price of the Goods and any Additional Charges in accordance with the payment terms set out on the quotation.
7.3 The Seller shall be entitled to invoice the Buyer for the Price of the Goods on or at any time before dispatch of the Goods or any installment thereof.
7.4 The Buyer shall make payment for the Price of the Goods in Euros, unless agreed otherwise in writing. Any payment received by the Seller in any other currency will not be deemed to be payment for the Goods in question.
7.5 Where the Buyer makes payment for the Goods by cheque the Seller reserves the right to charge a Surcharge in the event that any cheque rendered in payment of the Sellers invoice is initially refused.
7.6 Unless the Seller agrees that Condition 7.7 shall apply the Buyer shall pay each invoice from the Seller on demand.
7.7 Where the Seller agrees that this Condition 7.7 shall apply the Buyer shall pay each invoice from the Seller within 30 days of the date the Seller's invoice is issued.
7.8 In the event that the Buyer fails to pay any invoice from the Seller by the due date, all invoices issued to the Buyer by the Seller in respect of any goods sold or supplied pursuant to any other contract shall immediately fall due for payment and any credit offered or extended by the Seller to the Buyer in respect of the same shall be cancelled forthwith.
7.9 The Seller's invoices shall be payable in accordance with these Conditions,

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notwithstanding that delivery may not have taken place and the property in the Goods may not have passed to the Buyer. The time of payment of the Seller's invoices shall be of the essence of the Contract.

7.10 If the Buyer fails to make payment on the due date then, without prejudice to any other right or remedy available to the Seller: –

7.10.1 The Seller shall be entitled to charge the Buyer interest (both before and after any judgment) on the amount unpaid, at the rate of 3% per annum above the Seller's bankers base rate current from time to time; and

7.10.2 The Seller shall be entitled to withhold delivery of any Goods agreed to be sold by the Seller to the Buyer or any installment thereof (being the subject of the contract or any other contract) until the overdue payment is made in full.

8. TITLE

8.1 Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these Conditions, title in the Goods shall not pass to the Buyer until the Seller has received in cash or cleared funds payment in full of the Price of the Goods and all other goods agreed to be sold by the Seller to the Buyer for which payment is then due.

8.2 Until such time as title in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Seller's fiduciary agent and bailee, and shall keep the Goods separate from those of the Buyer and third parties and properly stored, protected and insured and identified as the Seller's property, but shall be entitled to resell or use the Goods in the ordinary course of its business.

8.3 Until such time as the title in the Goods passes to the Buyer, the Seller shall be entitled at any time to require the Buyer to deliver up the Goods to the Seller and if the Buyer fails to do so forthwith, to enter upon any premises of the Buyer or said party where the Goods are stored and mark identify and repossess the Goods.

8.4 The Buyer shall not be entitled to pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Seller, but if the Buyer does so all monies owing by the Buyer to the Seller shall (without prejudice to any other right or remedy of the Seller) forthwith become due and payable.

9. WARRANTIES AND LIABILITY

9.1 Subject to the Conditions set out below and clause 10.2 subject to the proviso that the Seller shall be under no liability arising from failure to follow the Seller's or the manufacturer's instructions (whether oral or in writing), inappropriate storage, improper use, inadequate maintenance or misuse of the Goods, the Seller warrants that:–

9.1.1 The Goods will correspond with the Seller's specification for them on delivery;

9.1.2 Save as provided in and subject to the provisions in sub-clause 9.1.4 below (unless otherwise agreed between the parties) the Goods manufactured by CAME Group of Companies, will be free from material defects for 3 years from the Delivery Date:

9.1.3 Where the seller is supplying goods from other manufacturers; their standard recommended warranty will apply.

9.1.4 This warranty does not cover wear items that are listed in the Operations Guide Relating to the Goods.

9.2 The Buyer shall be under a duty to inspect the Goods in accordance with the provision of clause 4.9. In the event of any patent defect the Buyer shall inform the Seller of such defect immediately on discovery but in any event within [14 days] of delivery. In the event of a latent defect being discovered, the Buyer shall inform the Seller of such defect immediately on discovery of the same. Any claim for breach of warranty by the Buyer shall not be accepted by the Seller unless the Buyer notifies the Seller in writing of the nature of the claim within the time limit specified within this Condition.

9.3 The Seller shall not be liable for any defect in the specification or performance of the Goods if such defect is due to inaccurate or insufficient information instructions or drawings being supplied to the Seller by the Buyer (or agent/employee/representative thereof) at the request of the Seller or otherwise.

9.4 Any warranty given in these Conditions shall not apply to any modification and/or repair carried out to the Goods without the Seller's prior approval in writing.

9.5 Subject as expressly provided in these Conditions, all warranties conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

9.6 The Buyer shall not be entitled to reject the Goods where the alleged defect or breach of contract is so slight that it would be unreasonable for the Buyer to reject the Goods.

9.7 Where any valid claim in respect of the Goods is made by the Buyer the Seller shall be entitled to replace or repair the Goods (or the part in question), at the Seller's sole discretion, refund to the Buyer the price of the relevant Goods (or a proportionate part of the price for the relevant Goods), and the Seller shall have no further liability to the Buyer. The Buyer acknowledges that any such valid claim is to be assessed and resolved in accordance with this Condition by the Seller working in conjunction with the CAME GROUP of companies and the original equipment manufacturers.

9.8 The Seller's liability in connection with the sale of the Goods and the provision of the Services to the Buyer shall be as follows:–

9.8.1 In respect of death or personal injury, the Seller's liability shall be unlimited;

9.8.2 In respect of physical damage to or loss of the Buyer's tangible property to the extent that it results from the willful default or negligence of the Seller, its employees, agents or contractors the Seller's liability shall be limited to an amount of £5 million in respect of each incident or series of connected incidents;

9.8.3 In respect of all other direct loss (whether in contract, tort, or otherwise) the Seller's liability shall not exceed £5 million; and

9.8.4 In respect of any loss goodwill or for any type of consequential, special or indirect loss or damage the Seller's liability shall be nil.

9.9 The Seller shall not be liable to the Buyer nor be deemed to be in breach of contract by reason of any delay in performing, or any failure to perform, any of the Seller's obligations in relation to the contract if the delay or failure was due to any cause beyond the Seller's reasonable control. The following shall (without limitation), be regarded as cause beyond the Seller's reasonable control:–

9.9.1 Act of God, explosion, flood, tempest, fire or accident;

9.9.2 War or threat of war, sabotage, insurrection, terrorism, civil disturbance or requisition;

9.9.3 Acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;

9.9.4 Import or export regulations or embargoes;

9.9.5 Strikes, lock-outs or other industrial actions or trade disputes (whether involving employees of the Seller or of a third party);

9.9.6 Difficulties in obtaining raw materials, labour, fuel, parts or machinery;

9.9.7 Power failure or breakdown in machinery.

10. SPECIFICATIONS AND INSTRUCTIONS

10.1 Unless the Seller agrees otherwise, only the specifications referred to in the quotation shall form part of the Contract.

10.2 The Seller reserves the right subject to giving prior written notice to the Buyer to modify the said specifications where the Goods cannot in the opinion of the Seller be manufactured according to the said specifications and the Buyer agrees to accept the Goods as manufactured according to the specifications so modified in satisfaction of the Sellers obligations as to manufacture of the Goods under the Contract.

11. INTELLECTUAL PROPERTY

11.1 All specifications, drawings, designs and technical description, and all Information and "know-how" whatsoever supplied by the Seller to the Buyer is as between the Seller and the Buyer the Seller's copyright and property and shall at all times be treated by the Buyer as confidential and shall not without the prior written consent of the Seller be used by the Buyer except for the purposes of the Contract.

11.2 The Buyer will indemnify the Seller against all actions claims demands costs charges, penalties, royalties and expenses arising directly or indirectly or incurred by reason of any infringement or alleged infringement of or any right attributable to any letters patent, registered design trade mark, trade name, copyright or proprietary right arising from the use of any instructions, specifications or designs whether express or implied supplied by the Buyer to the Seller.

12. INSOLVENCY OF BUYER

12.1 This Condition applies if: –

12.1.1 The Buyer makes any voluntary arrangement with its creditors or (being an individual or firm) becomes bankrupt or (being a company) becomes subject to an administration order or goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or

12.1.2 An encumbrancer takes possession or a receiver is appointed, of any of the property or assets of the Buyer; or

12.1.3 The Buyer ceases, or threatens to cease, to carry on business; or

12.1.4 The Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly.

12.2 If this Condition applies then, without prejudice to any other right or remedy available to the Seller, the Seller shall be entitled to cancel the contract and suspend any further deliveries under the contract without any liability to the Buyer, and if the Goods have been delivered but not paid for, all of the Seller's outstanding invoices to the Buyer become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

13. GENERAL

13.1 Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at his registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving the notice.

13.2 If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions shall remain in full force and effect.

13.3 No waiver by the Seller of any breach of the contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.

13.4 A person who is not a party to the contract has no rights under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of these Conditions but this does not affect any right or remedy of a third party which exists or is available apart from that Act).

13.5 These Conditions constitute the entire contract between the parties to the extent that the subject matter is dealt with herein and may only be varied or modified in writing under the hands of the parties or their authorised representatives.

13.6 The contract shall be governed by the laws of England, and the Buyer agrees to submit to The non-exclusive jurisdiction of the English courts.

PRODUCT RETURNS POLICY

Please find below a guide to our returns procedure, aimed to make replacement or repairs of faulty products simple and fast.

General Points
BPT electronic components are provided with a three year warranty.
All warranty returns require a returns number which can be obtained by contacting our sales team. If the return is for a product with a suspected fault covered under warranty, you will first need to contact our technical team who will issue the returns number.

Advanced replacements:
We do not offer advanced replacements, if you require a replacement product to be sent out in advance of the suspected faulty unit being returned, a purchase order will be required. Customers who do not hold a credit facility with us will need to pay for the replacement product by pro-forma or credit card. If we can find no fault with the original returned product (or it has been damaged and therefore not under warranty) a credit will not be raised and the original item returned to you.

PLEASE NOTE:
A very large number of products returned show no indication of fault when bench tested. Our technical team are often able to resolve many issues over the phone, they will only issue a returns number if they have reached a conclusion that the product in question will require further inspection. If a returns number is issued, you must get the product back to us within 14 days.

It is important you are aware that we are issuing a fault returns number based solely on the information you have given us. This does not automatically confirm that the product is faulty as we can only diagnose a suspected fault based on what we are told over the telephone. Please be aware that your original product may not actually be faulty but might have been incorrectly installed, damaged during installation or unintentionally damaged during operation.

When we receive the suspected faulty product back, it will be fully tested. If the product, which is within the warranty period, is found to be faulty, a credit, repair or replacement product will be issued, depending on the requirement.

If no fault is found with the product, then the product will be returned to you with a copy of the inspection sheet and no credit or replacement will be issued.

PLEASE BE AWARE THAT IF WE RECEIVE A PRODUCT WITHOUT A RETURNS NUMBER, WE WILL NOT BE ABLE TO PROCESS IT AND IT WILL BE RETURNED TO YOU.

Where we have provided a custom made product , we will not accept the goods back for credit under any circumstances, unless the products we have provided are diagnosed faulty by us.

Please note the following fault causes will negate the product warranty:
- **Water ingress through incorrect installation**
- **Unauthorised component replacement, using non BPT products.**
- **Insect damage**
- **Third party damage (e.g. evidence of a product that has been forced, or incorrect installation)**

Under these circumstances, we will not raise a credit for the products or issue new products without charge.

Re-Stocking Charges:
Where products have been ordered and are not required, BPT will accept the products back under the following conditions:
- **The products have not been installed**
- **The products are returned as complete items**
- **All packaging and instructions for each product are as new**

A re-stocking charge will be imposed on all unwanted returns. The amount will depend upon the condition of the products but will be a minimum of 10% of the value of the product for all returns within 30 days of the original purchase date.
Depending on the circumstances, we reserve the right to impose a higher re-stocking charge.
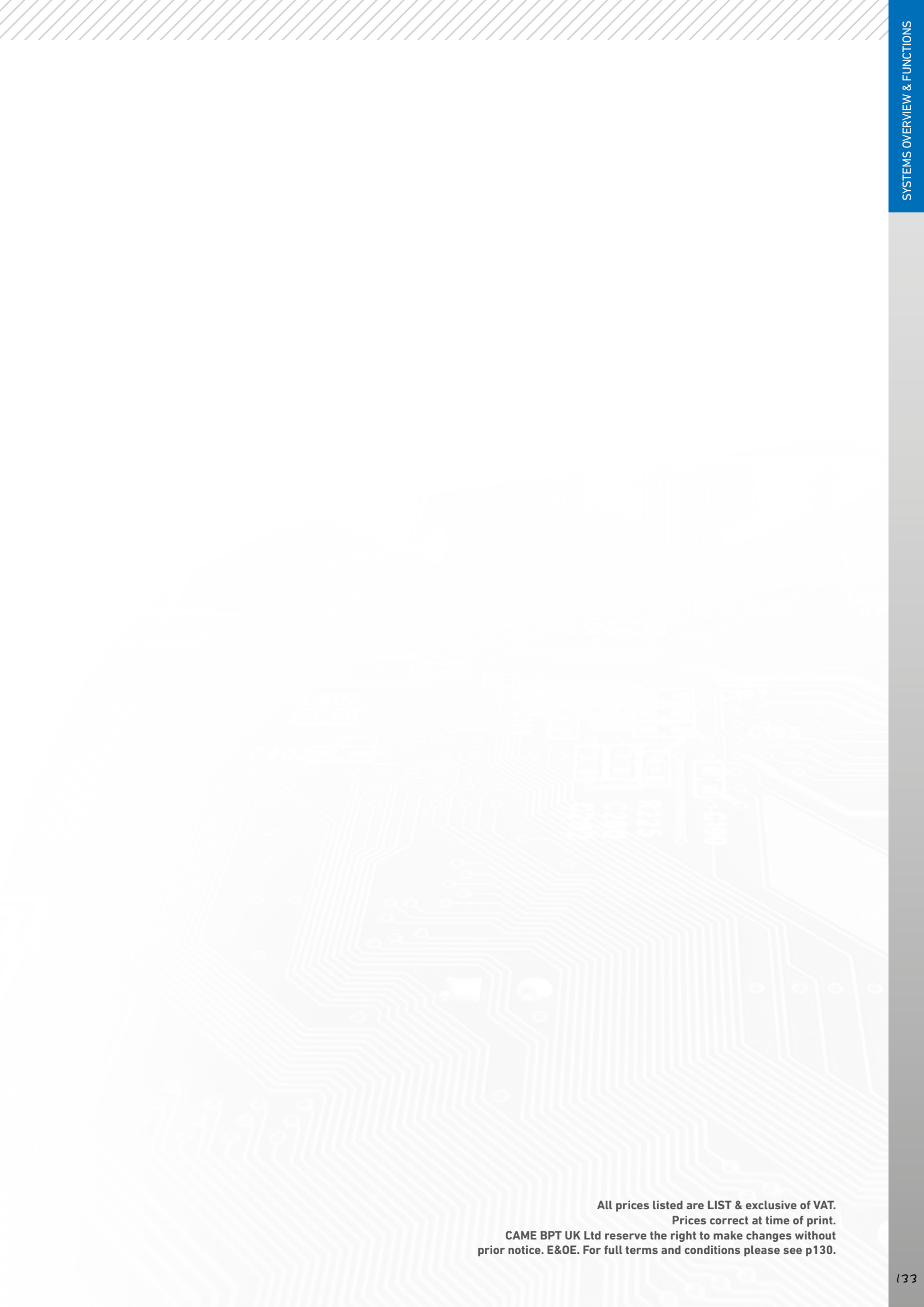Any products that we receive back that are not in the original packaging, which will enable us to re-sell the products to another customer, will be returned to the sender and no credit issued.

Repairs
Repairs for products out of warranty will be conducted on a chargeable basis, we will advise of the inspection fee at the time a returns number is generated, a purchase order will be required prior to the inspection taking place. Customers who do not hold a credit facility with us will need to pay for the inspection charge by pro-forma or credit card. Where we do perform a repair, the repaired element of the product will come with a 3 month warranty from date of the repair shown on the invoice. However, please be aware that we are not able to repair any products for obsolete systems.

When sending goods back to BPT for Credit or repair:

- **Please Package all items securely in an outer carton and ensure that the manufacturer's packaging is not marked in any way and will not be damaged during transit.**

- **Print out the address label that will be sent to you when the returns number is raised and fix to the outer carton.**

- **Once your items are received in our warehouse if they returned for credit they will be thoroughly checked and if found to be in a suitable condition, a credit will be issued via your original payment method, less any applicable re-stocking charge**

- **Please note that if the Returns Order Number Label is not attached, your return will be rejected by our goods in.**

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CAME BPT – South – Tel: 01442 230 800 – Fax: 01442 244 729
Liberta House, Maxted Road, Maylands Industrial Estate, Hemel Hempstead HP2 7DX

CAME BPT – Midlands – Tel: 0115 921 0430 – Fax: 0115 921 0431
Unit 3, Orchard Park Industrial Estate, Town Street, Sandiacre, Nottingham NG10 5BP

CAME BPT – North – Tel: 0161 406 9800 – Fax: 0161 406 4791
Unit 14, Latham Close, Bredbury Park Industrial Estate, Bredbury Stockport, SK6 2SD

CAME BPT – IRELAND – Tel: 01 429 5660 – Fax: 01 429 5956
Unit A1, Ballymount Corporate Park, Ballymount, Dublin 12, IRELAND

www.bpt.co.uk

For account customers, please contact your local branch for trade terms.