A NEW FRONTIER: THE XIP SYSTEM. FROM A SINGLE-FAMILY HOUSE TO A LARGE-SCALE 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.

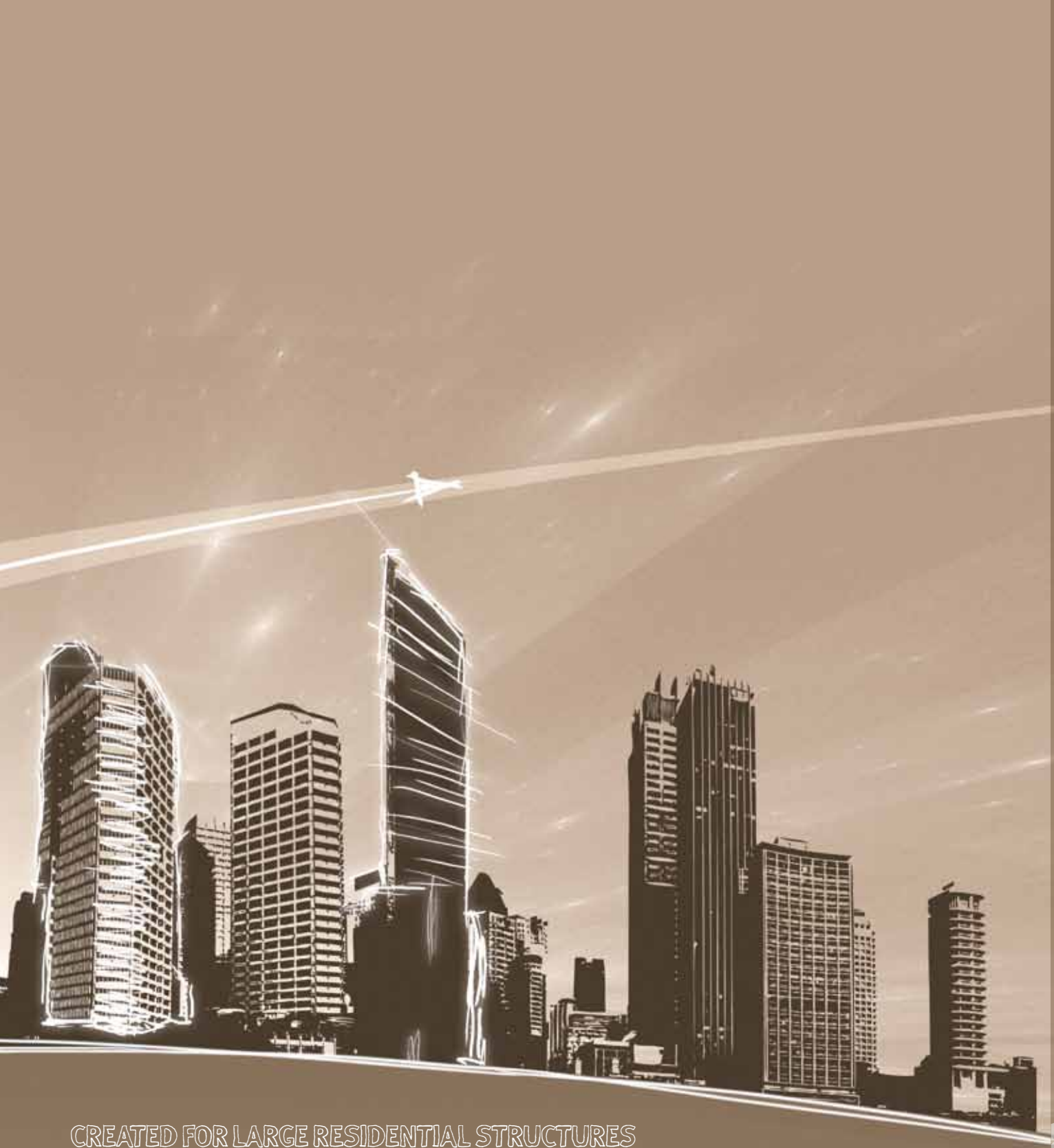
By utilising traditional cables to wire up the entry panels, it is possible to install long-distance connections as well as to connect points that the existing data networks cannot reach. The system also features the access control function, which supervises and controls all access points in the complex, as well as a range of porter services, which complete the functions provided by XIP.

UNLIMITED WIRING DISTANCES

PORTER SWITCHBOARD

H.264 VIDEO COMPRESSION

UTILISES THE X1 SYSTEM RECEIVERS AND RISERS



CREATED FOR LARGE RESIDENTIAL STRUCTURES

CONTROL VIA INTERNET

DESIGNED TO SUPPORT FIBRE OPTICS, RADIO LINKS AND DEDICATED LINES

ACCESS CONTROL
WITH ADVANCED FUNCTIONS

THE XIP SYSTEM.
NEW FEATURES, EXTENDED FUNCTIONS

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: bi-directional video calls, re-routing and transfer of calls. A system with unprecedented flexibility.

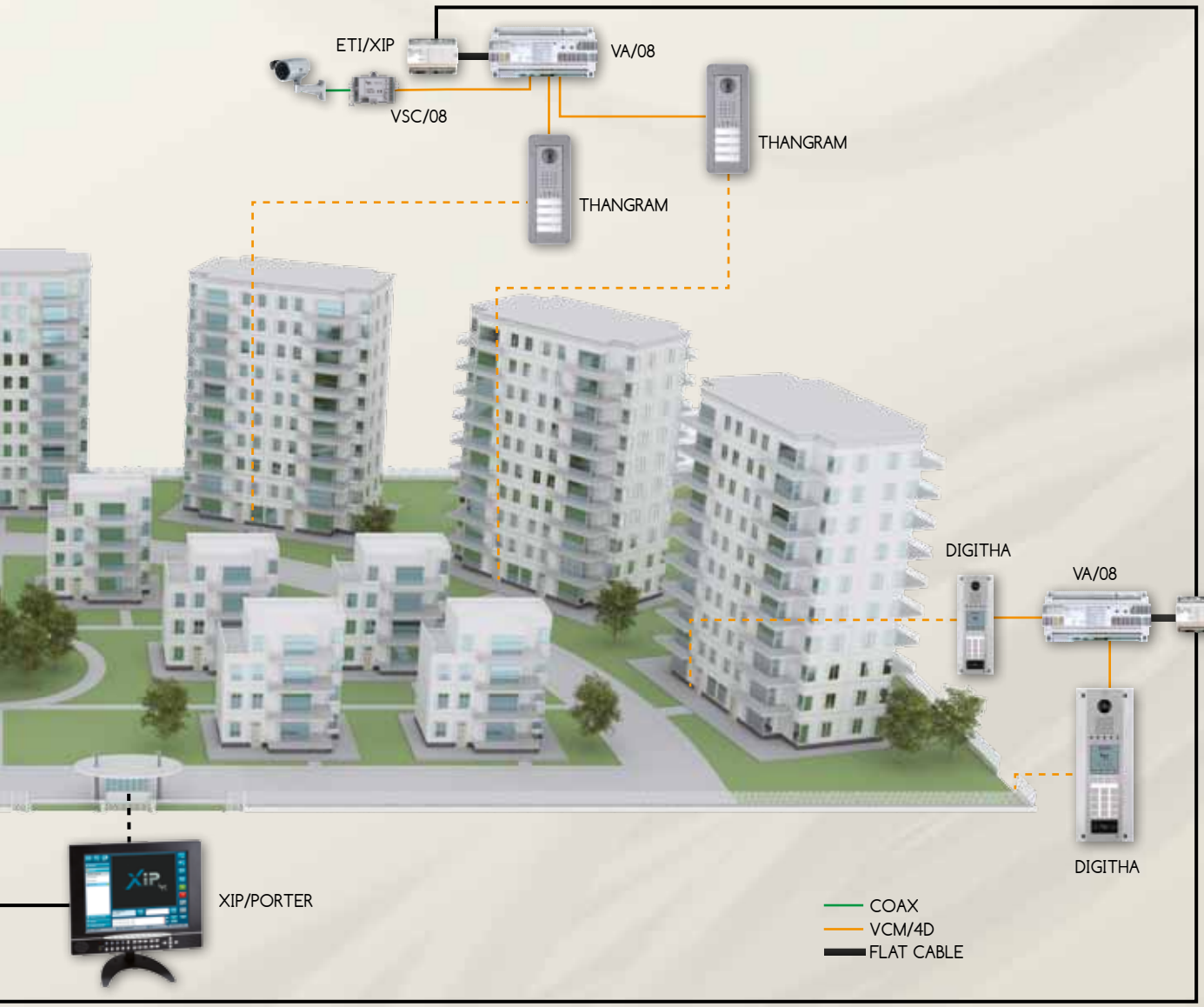
CCTV

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

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:

- Bi-directional video call
- Interception of calls according to time profiles
- Porter group hierarchy
- Management of profile exceptions



PRINCIPAL COMPONENTS

ENTRY PANELS

Thangram

Digitha

COMPONENTS

Power supply module for video entry panel VA/08	
Network interface ETI/XIP	
Network server ETI/SER XIP	

PORTER SOFTWARE

XIP/PORTER

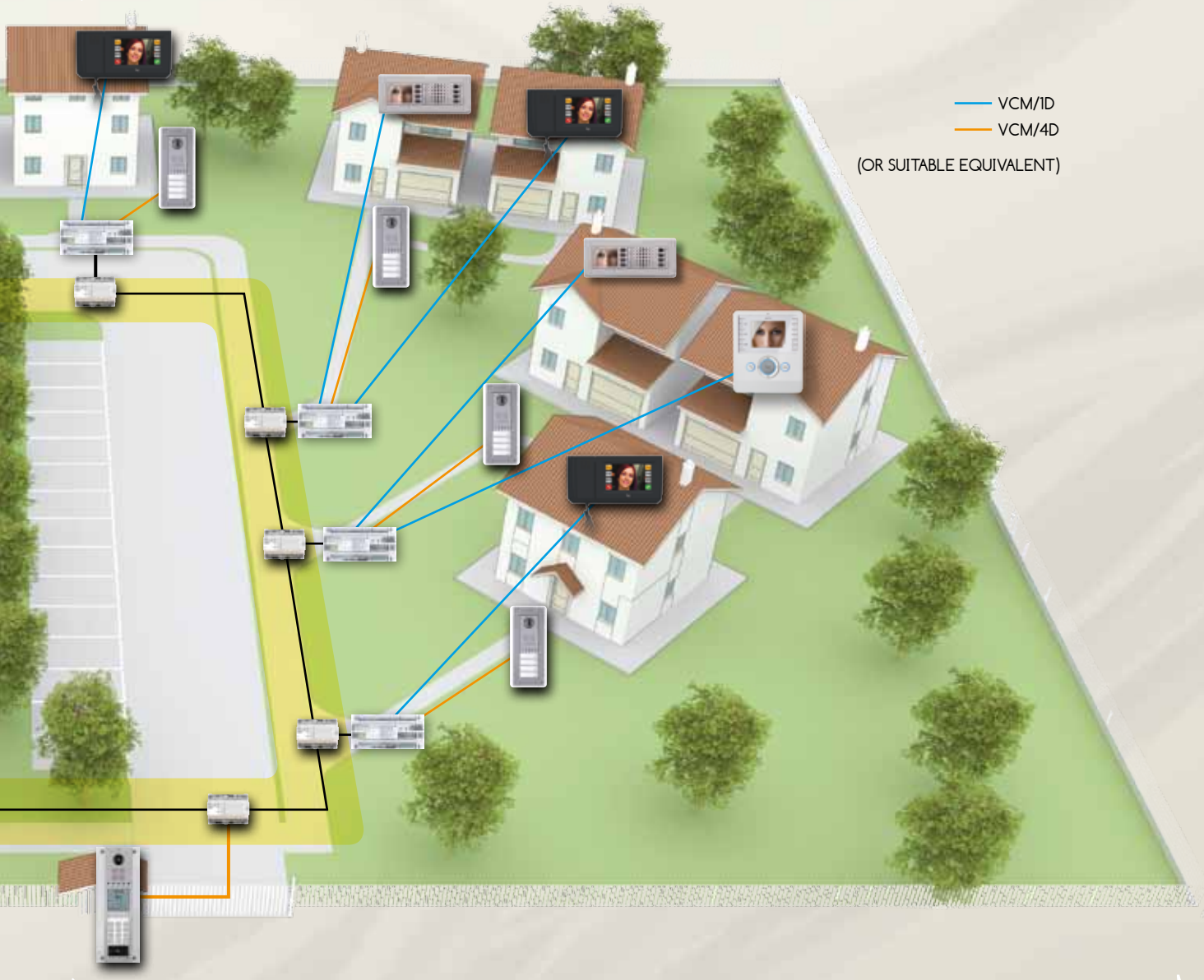
XIP: LAN NETWORKS WITHOUT SERVERS

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

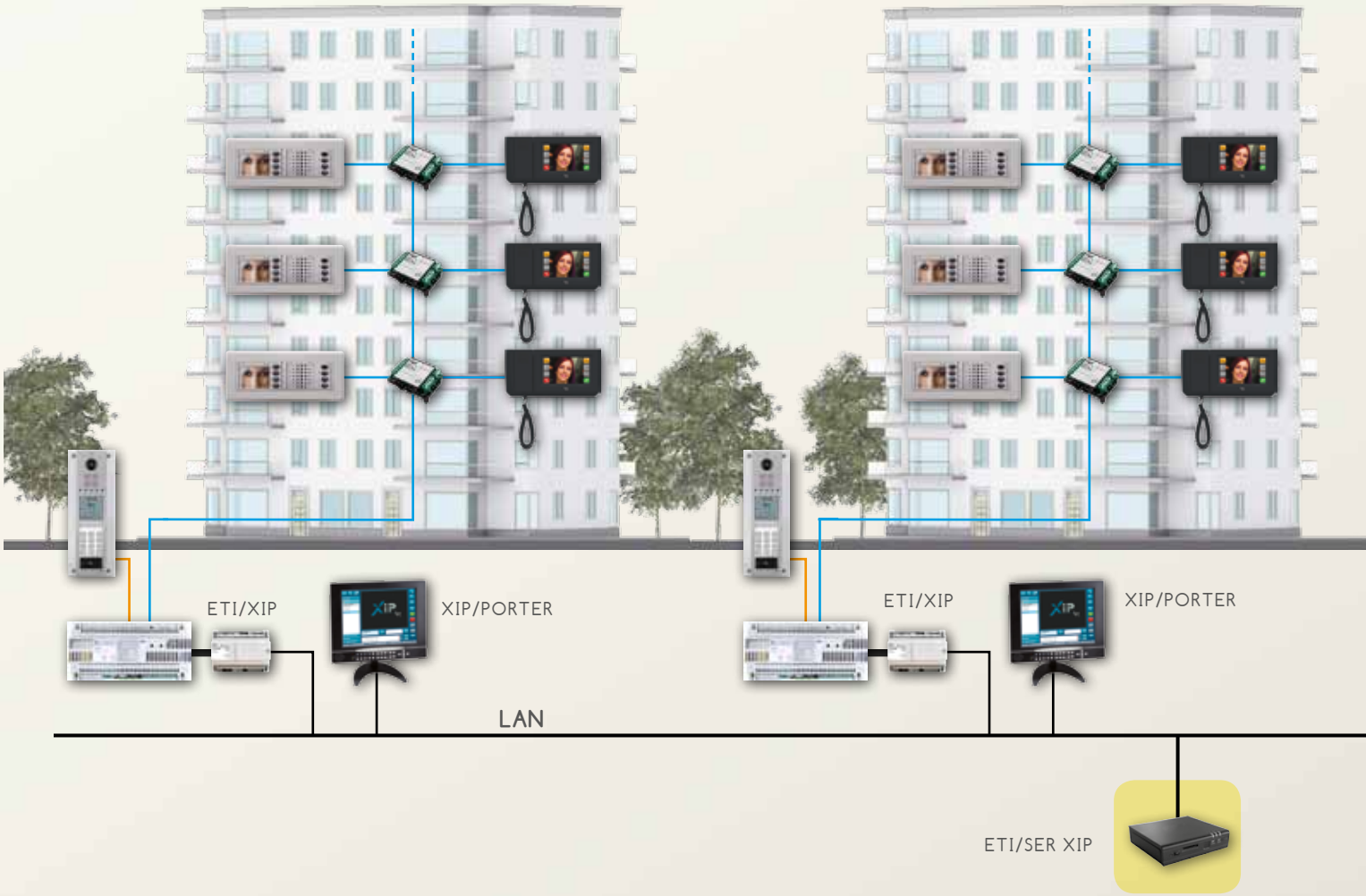
ETI/XIP gateways can be used to develop powerful, sophisticated video entry systems.
Each "block", controlled by a power supply module, is independent and thus can not only control all local communications between that block's entry panels and receivers, but also receive and transfer calls to and from other blocks.
The ETI/XIP gateways are supplied complete with a plug-in connector cable which plugs into the VA/08 power supply module and two ethernet ports for connection to the local network.



FUNCTIONS

	OSD	Supplementary information concerning the status of the calls and the system can also be displayed on the "basic" X1 receivers.
	DUAL CONVERSATION	The gateway can handle two audio/video calls simultaneously: one from the entry panel towards to 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.
	USE OF EXISTING NETWORKS	The gateways utilize 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 SERVER

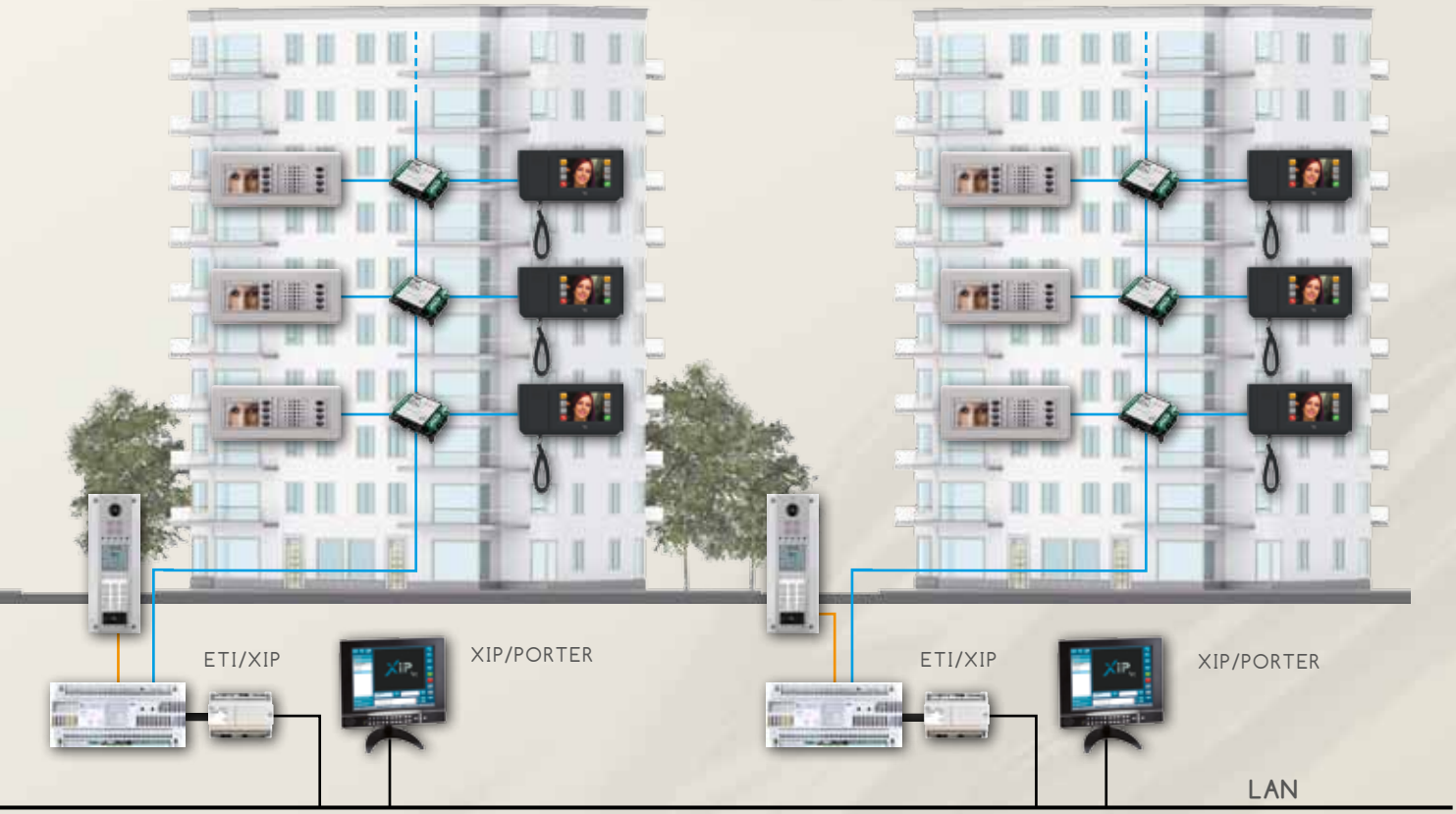


ADDITIONAL CHARACTERISTICS AND FUNCTIONS

	PORTER SERVICES	The server provides porter services which include the operating profiles and the control software for the porter function.
	PORTER SOFTWARE	The control software for the porter function can be installed on a PC, and provides all the functions for control of the system. The porter can receive and distribute all calls throughout the system, and can also transmit a video signal from a locally-connected webcam.
	BI-DIRECTIONAL VIDEO CALLS	All the porters can communicate using the bi-directional video function.
	OPERATING PROFILES	The porter services also make it possible to intercept all calls from the entry panels and to forward them to the respective porters. The operating profiles include all the parameters governing the re-routing or transfer of all calls to the receivers.

ETI/SER XIP 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 Porter software.



VCM/1D
VCM/4D
UTP CAT.5
FLAT CABLE

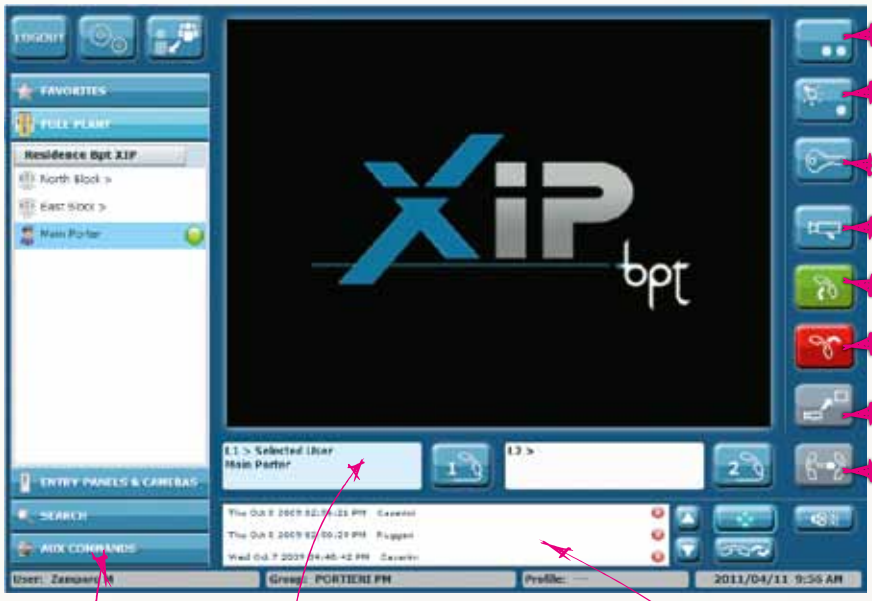
WEBCAM	The porter can use a normal webcam to transmit images, including his/her own.
RE-ROUTING OF CALLS	The system can be set to re-route calls to the porter in certain conditions (line busy, no reply, privacy).
UNCONDITIONAL FORWARDING	It is possible to configure the system temporarily so that all calls are unconditionally re-routed to the porter.

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 bi-directional 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:** to select from a pre-programmed list of devices.
- **Full plant:** structure consisting of all the devices connected to the system.
- **Entry panels and cameras:** structure comprising all the entry panels and video cameras connected to 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.

Pressing the "Auxiliary commando" push button is possibile to display the auxiliary commands list previously programmed.

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

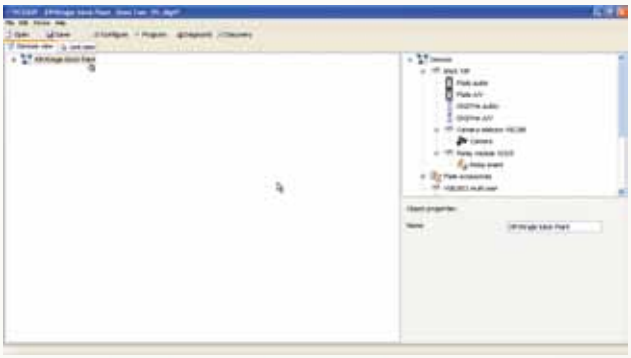
If a second call is received while another call is in progress, the images will be displayed as shown opposite. One of the two calls can be placed on hold at the touch of a fingertip.

TECHNICAL DATA

MINIMUM PC REQUIREMENTS	
CPU	Pentium 4 2GHz
SCREEN	1024x768
RAM	1GB
HARD DISK	350MB free
OPERATING SYSTEM	Windows XP/Vista/Win7
AUDIO DEVICES	Microphone+loudspeaker
VIDEO CAMERA	Built-in / external
REQUIRED SOFTWARE	Adobe Flash Player 10; Windows Explorer 7.

CONFIGURATION OF THE SYSTEM

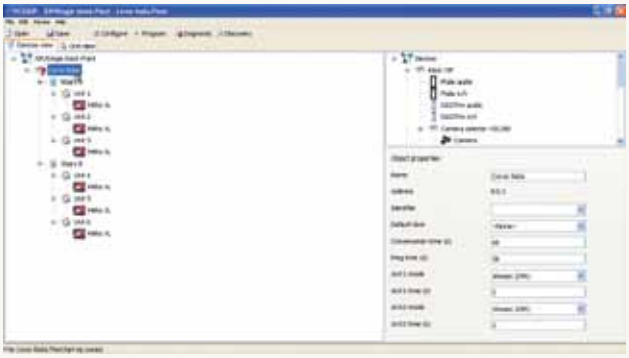
The new devices that make up the X1 and XIP systems are all fitted with USB ports, so that it is unnecessary to use bulky serial adapters, and programming is faster and simpler.
The configuration software for the new systems (PCS/XIP) is designed to create all the structures necessary for the system. 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.



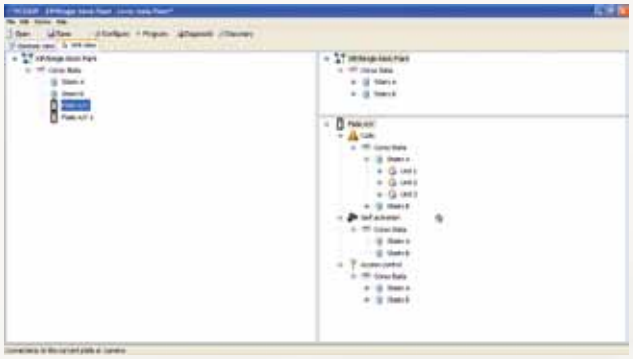
All the objects that make up the system can be transferred to the main part of the screen using the simple "drag & drop" method. From the "objects properties" area, all these objects can be configured with all the necessary parameters and can be assigned names which will simplify control and maintenance.

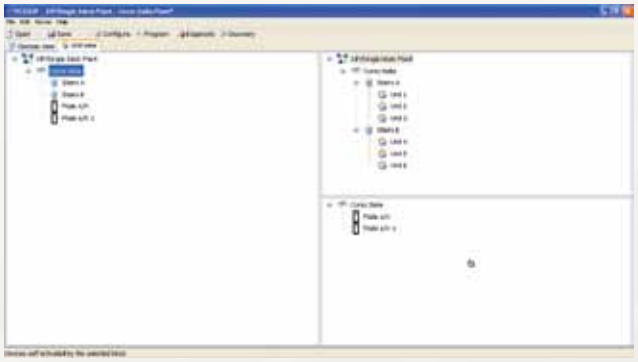
Once the structure has been created and all the devices have been configured, all the devices connected to the system can be programmed rapidly from the USB port.

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.

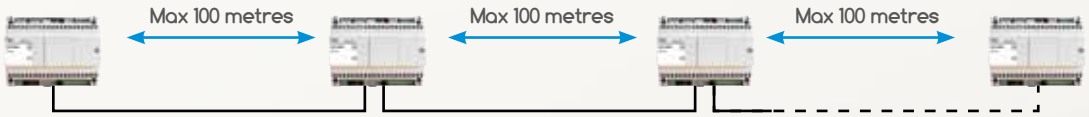




CONFIGURATION OF THE NETWORK

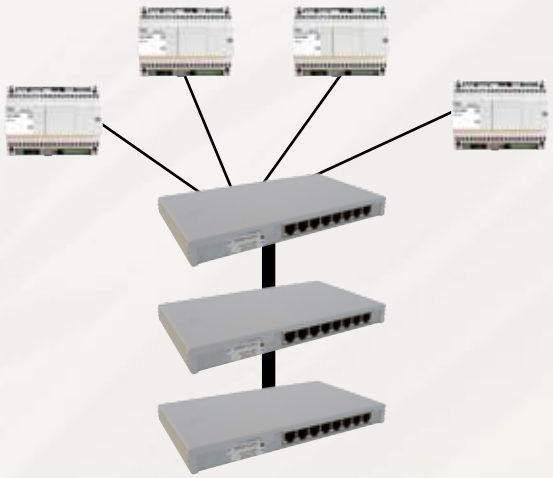
DAISY-CHAIN CONNECTIONS

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.



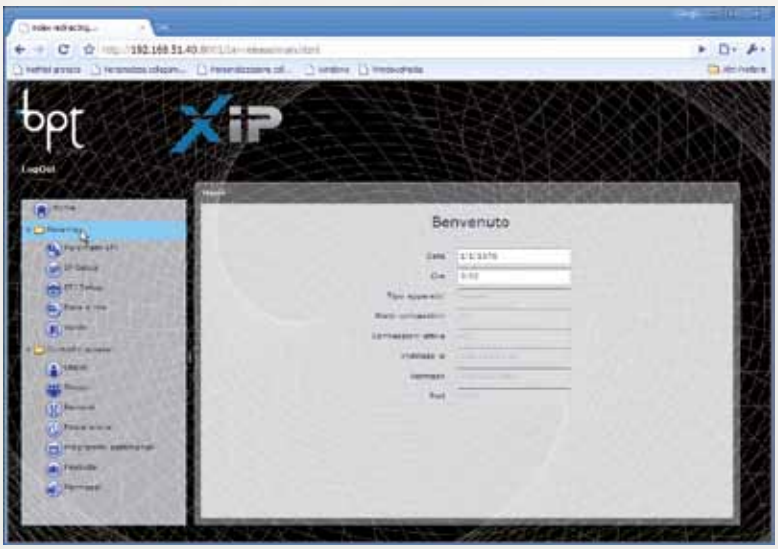
STAR CONNECTION

If the gateways are connected to a pre-existing network structure, different limitations are applicable. The system should be wired in star configuration (which is 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.



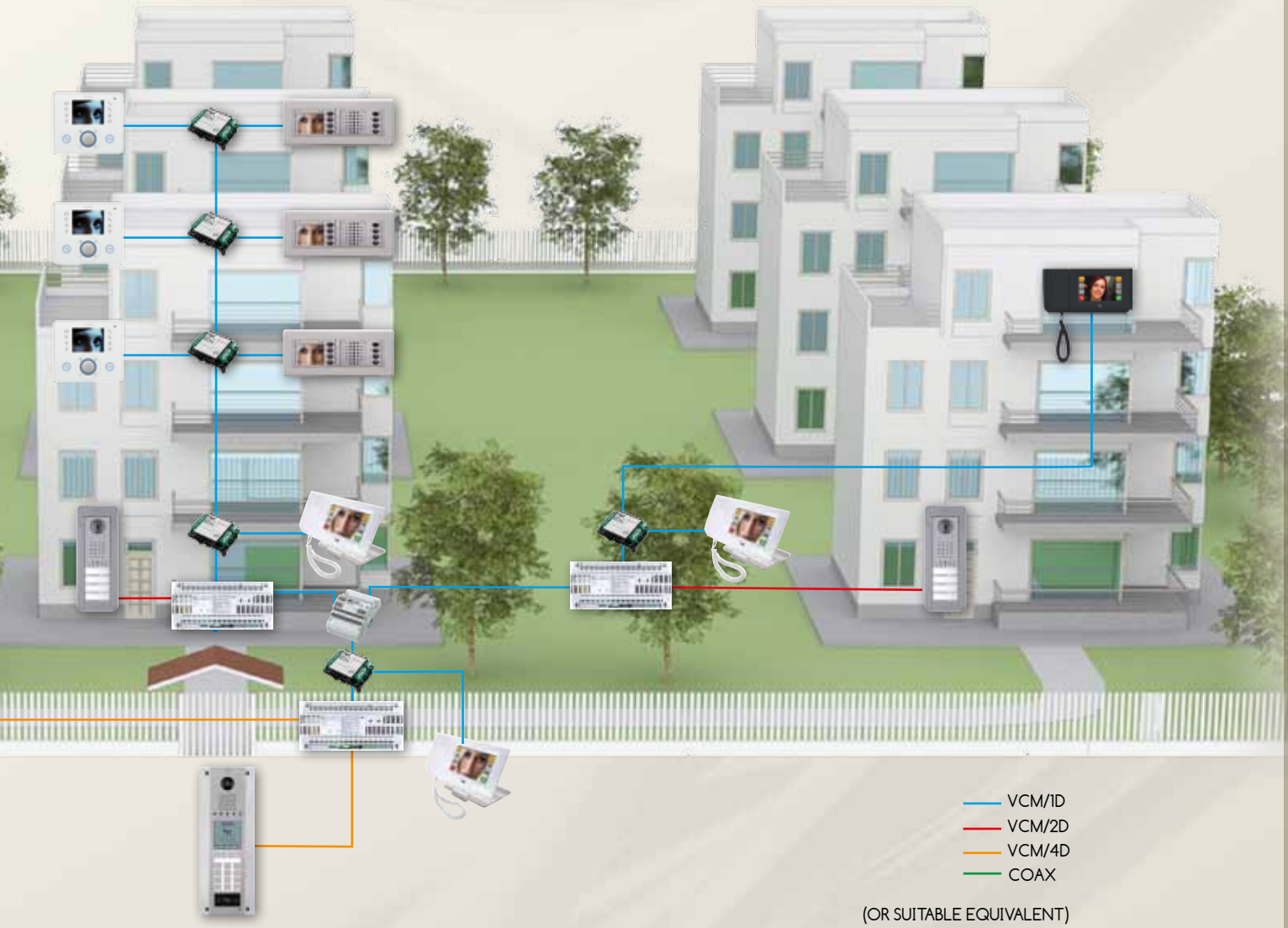
XIP: RESIDENTIAL SYSTEMS WITHOUT LAN

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-polarized twisted pair (or, for maximum performance, it is possible to use Bpt's VCM/1D dedicated cable).
The line derivation from this cable can be created using normal signal distributors for each of the blocks (Daisy-chain configuration), or by distributing a twisted pair for each block directly from the principal entrance (star configuration).
The system can be set up for all the functions directly using software.
Refer to the tables of characteristics for the correct method of utilization 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



(OR SUITABLE EQUIVALENT)

BLOCK

- Up to 64 blocks (buildings)
- Up to 100 users for each block
- Up to 2 entry panels for each block
- Distance between entry panel monitor and block: up to 150 metres
- Intercom service between all receivers in block without additional wiring
- 8 monitors in simultaneous call mode
- Self-connection, door lock release, 2 commands for auxiliary functions and confidentiality of calls
- Up to 2 porter switchboards per block for a total of 128 block switchboards
- Up to 2 main porter switchboards per block for a total of 128 block switchboards
- Up to 2 main porter switchboards

SYSTEM

- Up to 2,000 users
- Up to 2,600 metres between main power supply module and block monitors.
- Up to 4 main entry panels

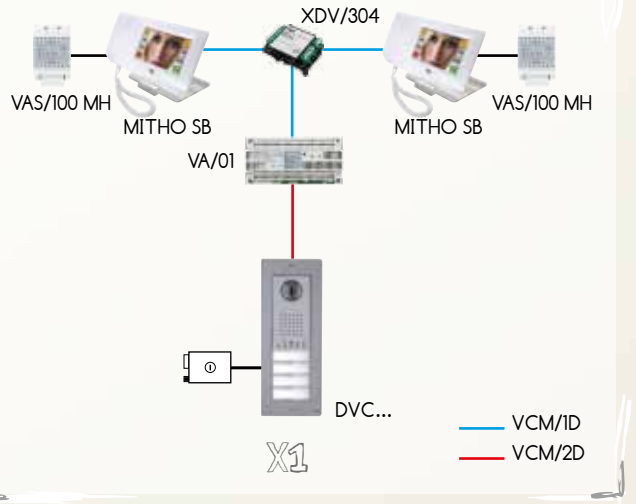
MITHO SB

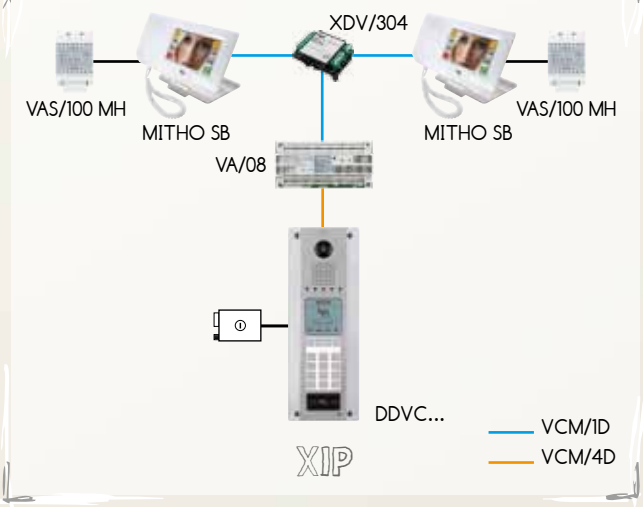
The advanced solution for the porter services

MITHO SB is a table-top colour video switchboard with a 4.3" 16:9 format LCD touch screen, and is available in two colours: Fusion Black and 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. Mitho is supplied complete with an elegant and practical table-top support comprising a sturdy 3 mm steel base with a refined, sleek shape, and an adapter in two colours: Fusion Black and Ice White.

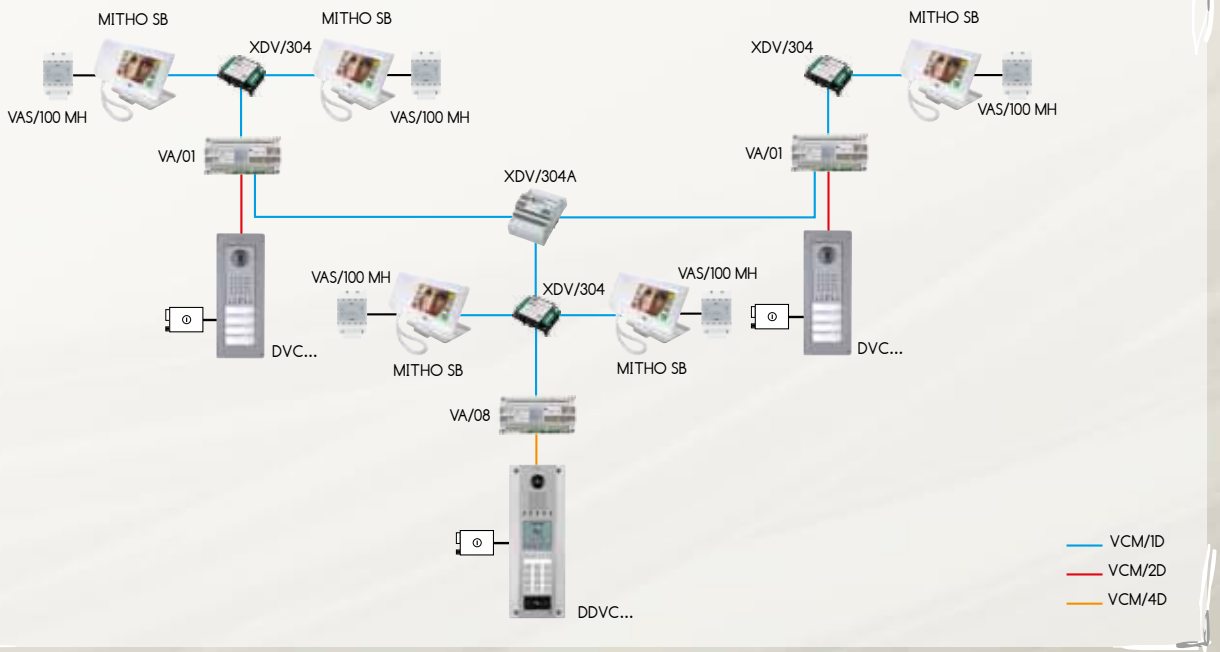
X1 AND XIP SYSTEMS FOR SINGLE BLOCKS

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.





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.



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 down the list of users for transfer of calls

Forward messages to the individual receivers

Listen to messages memorized in the voicemail system

Select the most frequently-used functions from the "Preferred" 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 customizable 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
- Open 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.

CABLES

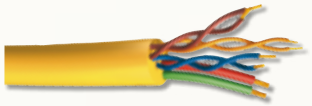
With the XIP system, BPT offers guaranteed performance and signal quality irrespective of the selected method of transmission. The maximum distances depend on the number of receivers connected and the maximum power absorption of the overall system.

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).

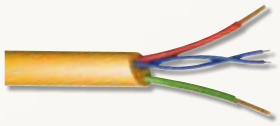
PVC insulating sheath, diameter 11 mm, colour: RAL 1021 yellow. Twisted pair, 70mm twist pitch. Tinned copper wires. Colour: blue/blue-white - brown/brown-white - orange/orange-white for twisted pairs - red and green for power supply wires. Nominal impedance of twisted pairs 100 ohm (f=1 MHz), capacitance 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 100m or 500m coils.

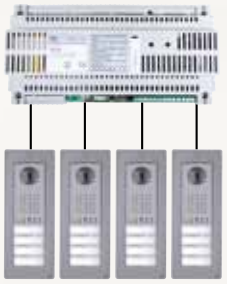
		Colour of wire	Thickness	Type of cable
VCM/1D		Blue	1.00 mm²	Bus/Power supply
		White	1.00 mm²	

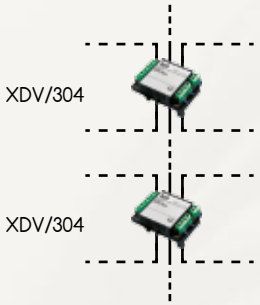
RECOMMENDED WIRES

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)

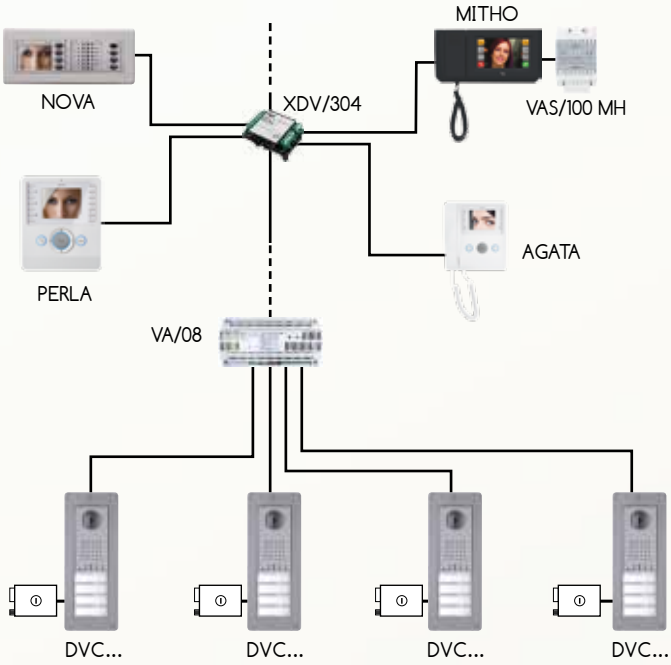
FOR EACH TYPE OF CONNECTION

TYPE OF CONNECTION		RECOMMENDED WIRE
Connection between entry panels and power supply modules		VCM/4D (Optimum performance) Cat5 Cat6

TYPE OF CONNECTION		RECOMMENDED WIRE
Distribution on riser		For X1 systems with seperate power supply for the receivers: VCM/2D (Optimum performance) CAT5 Twisted pair + Power For X1 systems with bus powered receivers: VCM/1D (Optimum performance) CAT5 Twisted pair + Power

DISTANCES

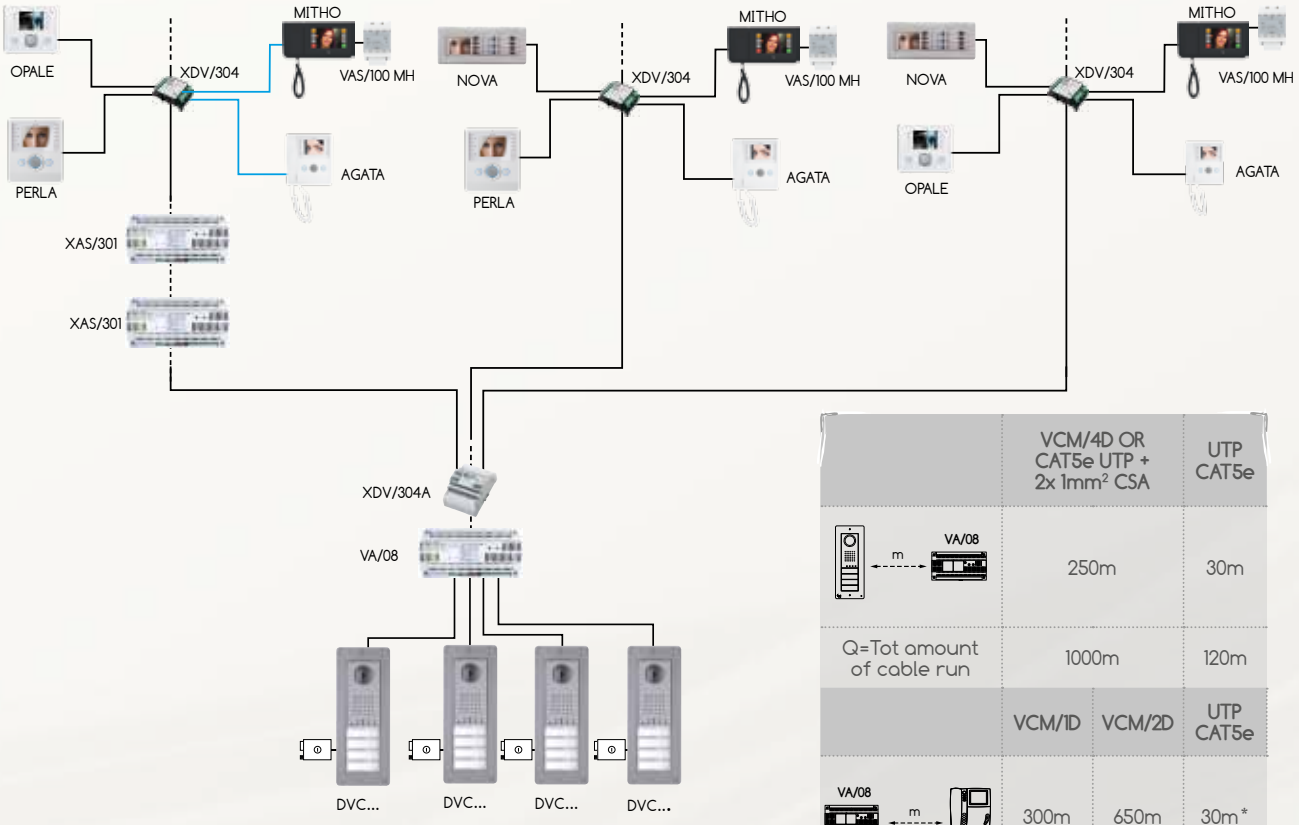
STANDARD SYSTEM



	VCM/4D OR CAT5e UTP + 2x 1mm² CSA	UTP CAT5e
VA/08 — m	250m	30m
Q=Tot amount of cable run	1000m	120m

	VCM/1D	VCM/2D	UTP CAT5e
VA/08 — m	100m	250m	30m

SYSTEM WITH LINE AMPLIFIER



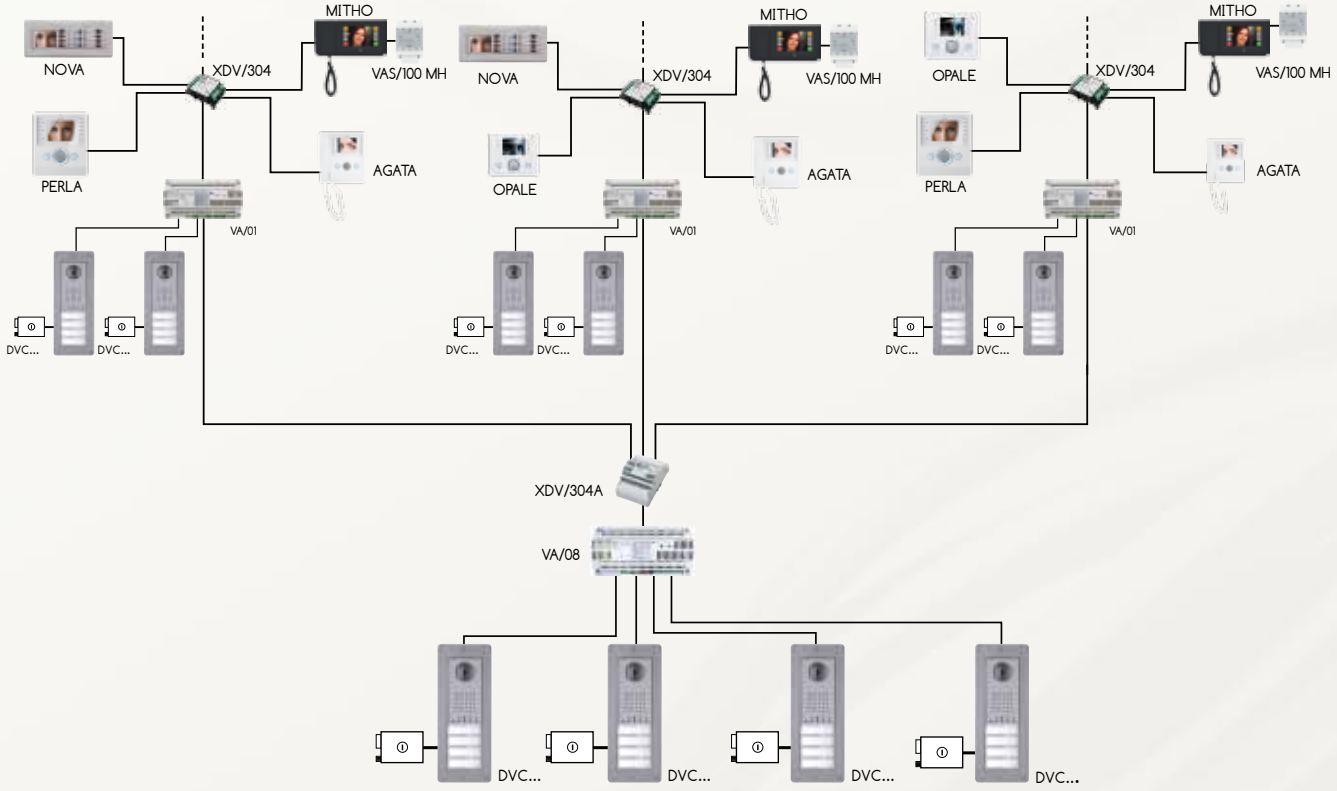
Max 2 units of XAS/301 in-out connection.

	VCM/4D OR CAT5e UTP + 2x 1mm² CSA	UTP CAT5e
VA/08 — m	250m	30m
Q=Tot amount of cable run	1000m	120m

	VCM/1D	VCM/2D	UTP CAT5e
VA/08 — m	300m	650m	30m *
Q=Tot amount of cable run	3000m	3000m	400m *

DISTANCES

RESIDENTIAL SYSTEM



MAIN	VCM/4D OR CAT5e UTP + 2x 1mm² CSA		UTP CAT5e
VA/08 m	250m		30m
Q=Tot amount of cable run	1000m		120m
	VCM/1D	VCM/2D	UTP5 CAT5e
VA/08 VA/01 m	250m	250m	250m

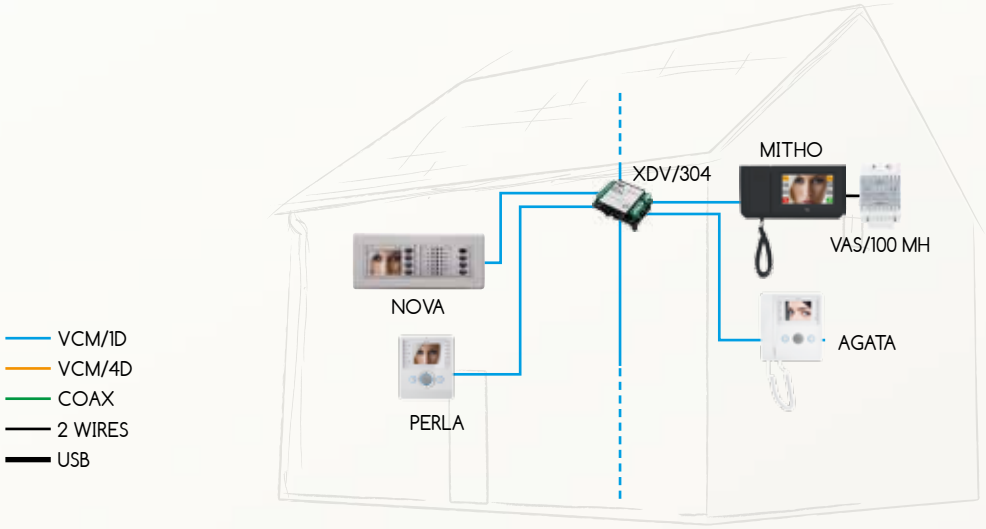
BLOCK	VCM/4D OR CAT5e UTP + 2x 1mm² CSA		UTP CAT5e
m	150m		60m
BLOCK	VCM/1D	VCM/2D	UTP5 CAT5e
VA/01 m	100m	100m	30m
Q=Tot amount of cable run*	600m	600m	400m

(*) The total amount of cable run refers to the wiring from the furthest receiver and entry panel.

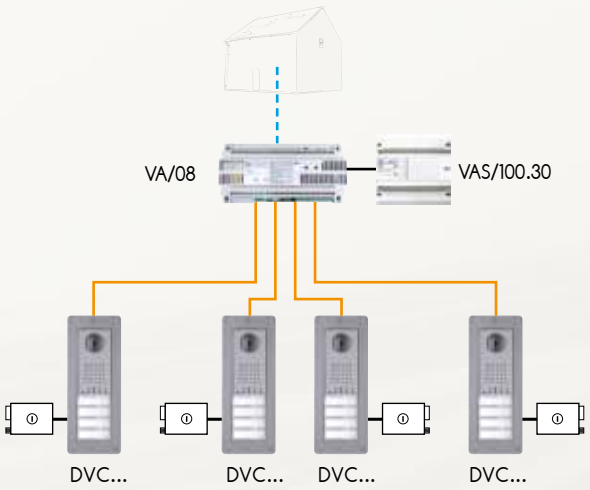
PERFORMANCE

THANGRAM ENTRY PANELS AND VA/08 POWER SUPPLY

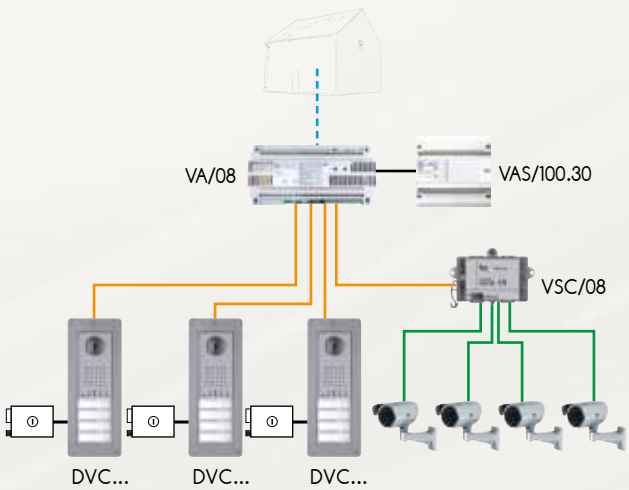
For a given riser whose characteristics remain unaltered, ...



... it is possible to create systems with 4 separate entrances connected in 'star' configuration and 100 receivers for each block.



... or systems with cyclic selection of 4/8/12 video cameras that can be viewed from the receivers.



... using software programming via PC connected (via USB) to the power supply module or the entry panels or to any point of BUS through RIR/08

SYSTEM COMPONENTS

POWER SUPPLY MODULES

VA/08

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.

VAS/101

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/100.30

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.

XAS/301

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.

VIDEO SIGNAL DISTRIBUTORS

XDV/304

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 switch for outputs. Power supply directly from bus line.

XDV/304A

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.

SELECTORS

VSE/301

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.

VSC/08

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.

SYSTEM COMPONENTS

PORTER SWITCHBOARD

MITHO SB NF

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 BI

Table-top porter switchboard

Table-top porter switchboard with 4.3" 16:9 touch screen, hands-free audio and handset, colour Ice White.

OTHER COMPONENTS

ETI/SER XIP

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.

VLS/101

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 relay features impulse switching contacts for control of the electrical functions (switching power 5A resistive -2A inductive at a maximum voltage of 250 VAC) powered by direct or alternating current or by a low-voltage signal from the system. Power supply 10/24V AC/DC - 60 mA.

VLS/3

Triple-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 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.

ETI/XIP

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.

XDV/303

Bidirectional video distributor, 8-unit slimline module with DIN guides.

Balanced video signal distributor for distribution or concentration of cable transmission lines.

RIR/08

Data line repeater for XIP system

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.

XDV/300A

Device for restoring/regenerating modulated video signals 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.

SYSTEM COMPONENTS

PROGRAMMING SOFTWARE

PCS/XIP

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/PORTER

License for the utilization of the porter software - single user

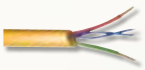
Additional license for the utilisation of more than one porter (1 license per porter)

CONNECTOR CABLES

VCM/1D or VCM/1DCUT

Cable with 1 mm² twisted pair

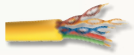
PVC insulating sheath, diameter 7 mm, colour: RAL 1021 yellow. Twist pitch 10 twists/m. Tinned copper wires, colours: RAL 9001 white and RAL 5015 blue. Nominal impedance 100 ohm (f=1 MHz), capacitance 50 pF (at 20°C). Minimum cable curvature 80 mm. Fully compliant with CEI 46-6 (latest amendment). Supplied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



VCM/2D VCM/2DCUT

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/4D or VCM/4DCUT

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.

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.

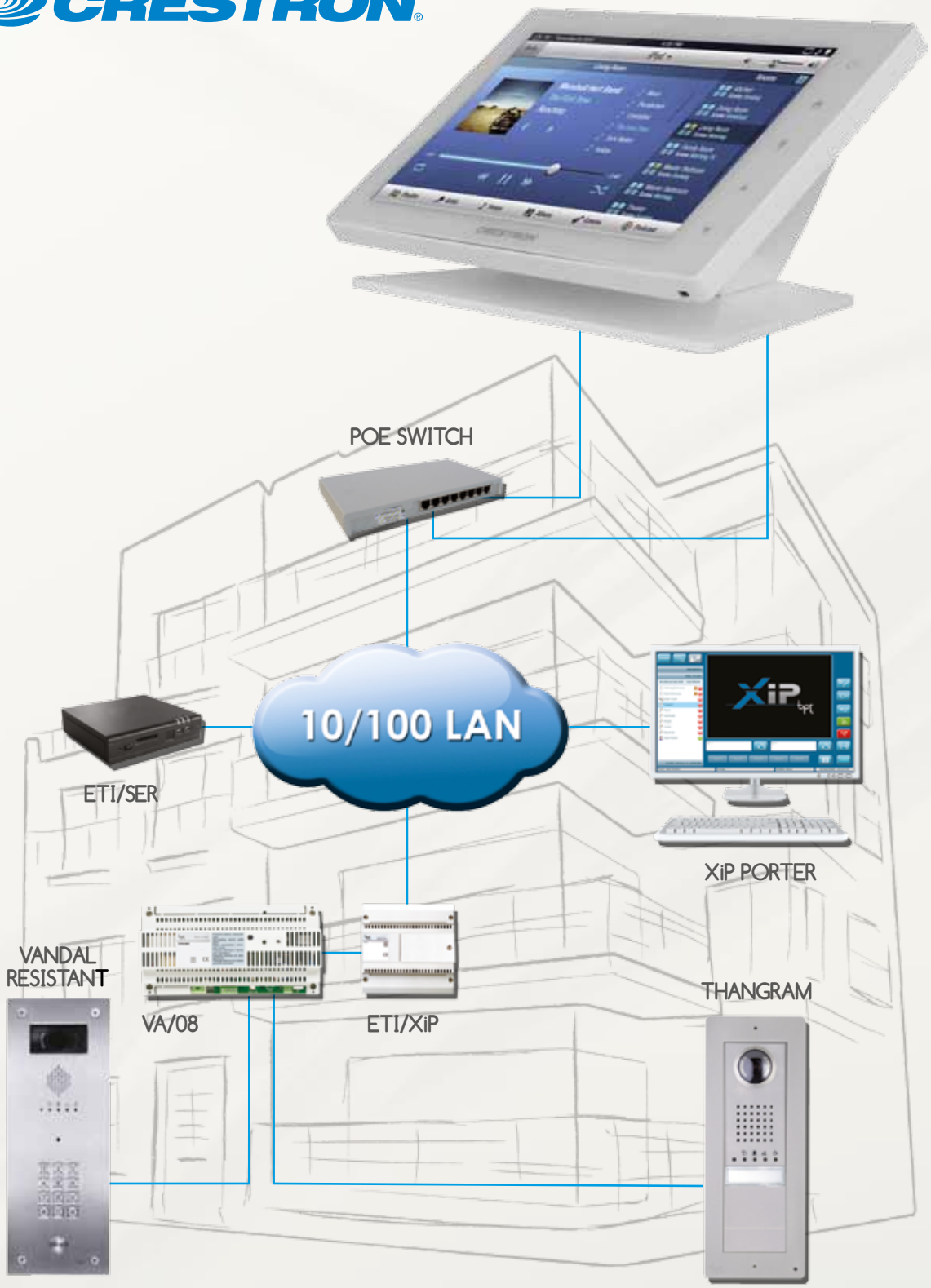
At a technical level, Crestron and Bpt R&D departments have worked together to create a system with full interoperability between the Bpt XiP video door entry system and Crestron home control. Without the requirement for any additional specialist units, the Bpt and Crestron systems can work in complete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

Using a shared network, the full functionality of the Xip sytem 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

CRESTRON



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

SYSTEM COMPONENTS

POWER SUPPLY MODULE

VA/08

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.

SERVER & IP INTEGRATION

ETI/SER XIP

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 115x100x26 (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/XIP

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.

SELECTORS

VSE/301

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.

VSC/08

Manual cyclic selector for CCTV for XIP system

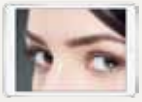
Miniaturized housing for installation in junction boxes (dimensions 85.5x60x21 mm) or electrical control panels (EN50022), dimensions: 1 low-profile DIN module. Complete with 8 input terminals for video signal from 4 standard B&W or colour video cameras (standard CCIR/EIA or PAL/NTSC) and three switches 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.

INTEGRATION LICENCES

CRES/01

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.

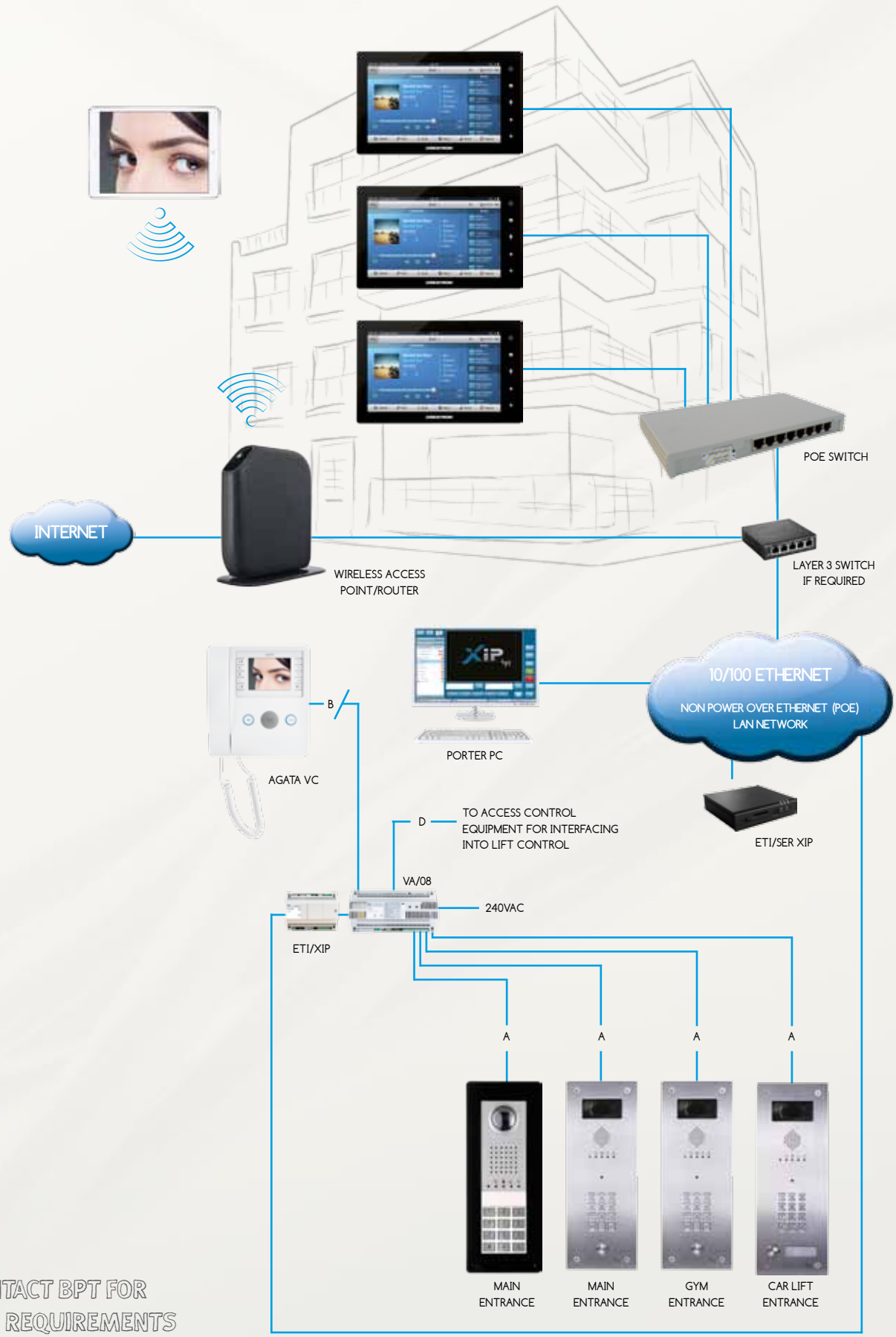


APP/01

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.

MULTIPLE ENTRANCES TO CRESTRON CONTROL WITH APP



CONTACT BPT FOR LAN REQUIREMENTS