Video Entry System
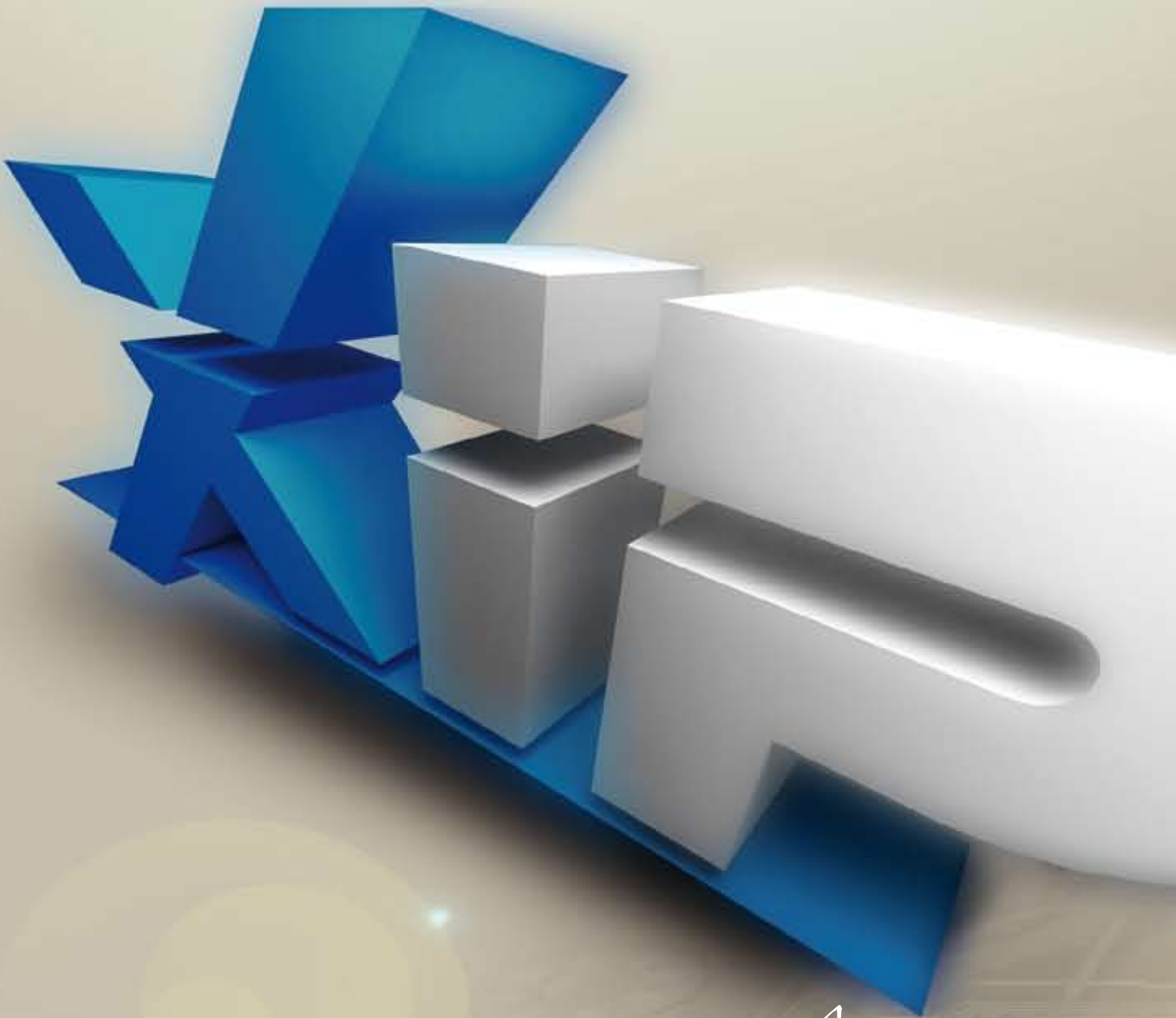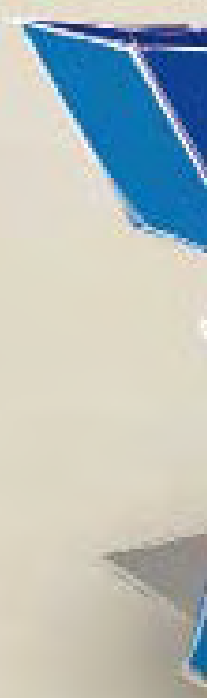## 2010

bpt
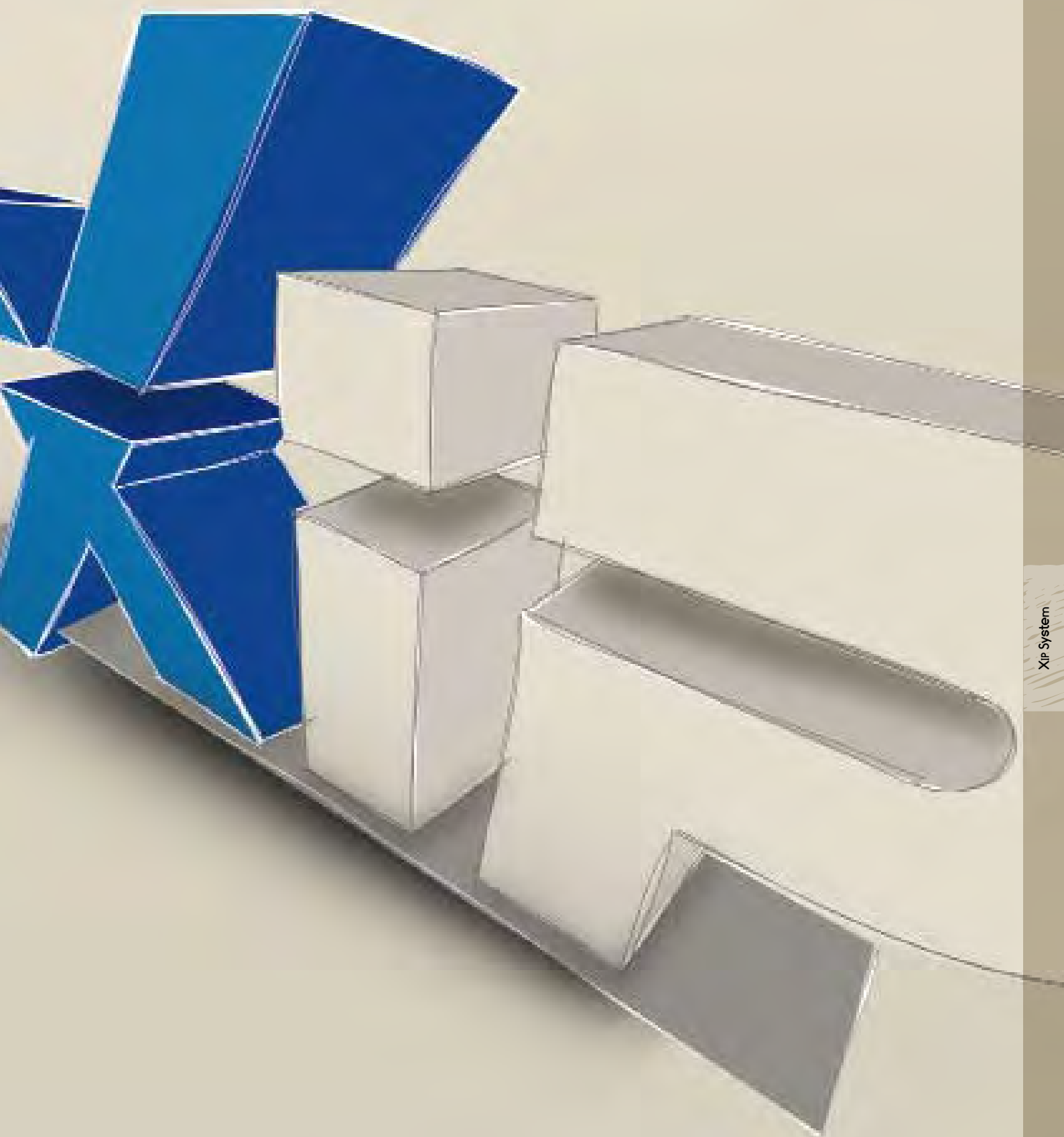
XIP SYSTEM

bpt

A NEW FRONTIER: THE Xɪᴘ SYSTEM.
FROM A SINGLE-FAMILY HOUSE
TO A LARGE-SCALE RESIDENTIAL COMPLEX

The new Xɪᴘ 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 utilizing 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 Xɪᴘ.

CREATED FOR LARGE RESIDENTIAL STRUCTURES

UNLIMITED WIRING DISTANCES

H.264 VIDEO COMPRESSION

UTILIZES THE X1 SYSTEM
INTERNAL RECEIVERS AND RISERS

bpt

Xip System

COMPATIBLE WITH ALL ENTRY PANELS IN THE
THANGRAM AND DIGITHA RANGES

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

ETI/XIP

VA/08

THANGRAM

THANGRAM

DIGITHA

VA/08

ETI/XIP

DIGITHA

ETI/SER XIP

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

VIDEO SURVEILLANCE

The images from any of the entry panels and traditional or IP video cameras can be displayed on any internal 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.

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

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ETI/XIP   VA/08

THANGRAM

THANGRAM

DIGITHA

VA/08

ETI/XIP

DIGITHA

PCS / PORTER

— VCM/4D
▬ FLAT CABLE

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	PCS / PORTER
Thangram	Digitha		

bpt

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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 i 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 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 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.

—— VCM/1D
—— VCM/4D

FUNCTIONS

	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 synchronized between all the blocks to create a single system.
	DUAL CONVERSION	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

ETI/XIP

ETI/XIP

LAN

ETI/SER XIP
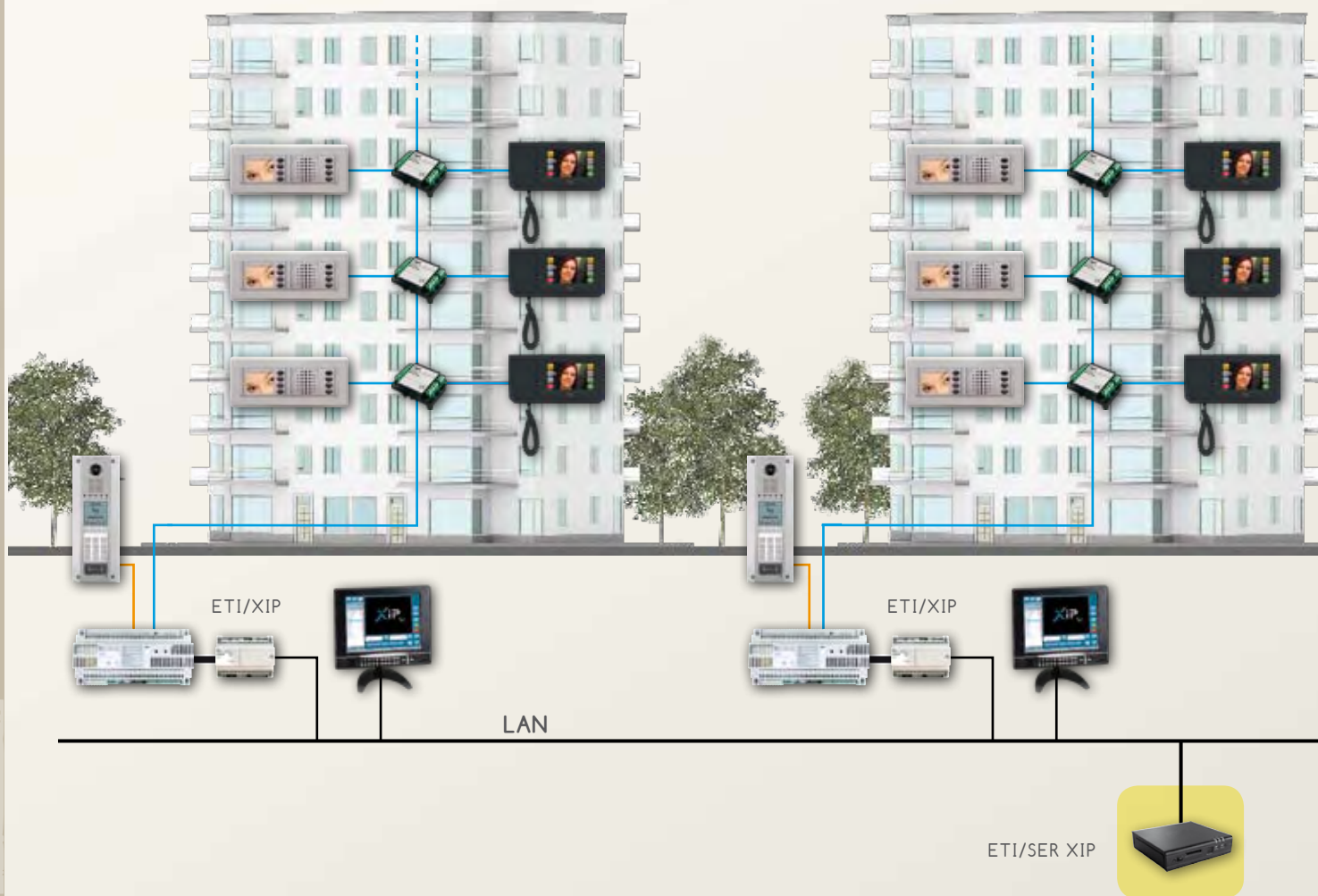
ADDITIONAL CHARACTERISTICS AND FUNCTIONS

	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 any 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 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 Porter software.

ETI/XIP

ETI/XIP

LAN

— 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.

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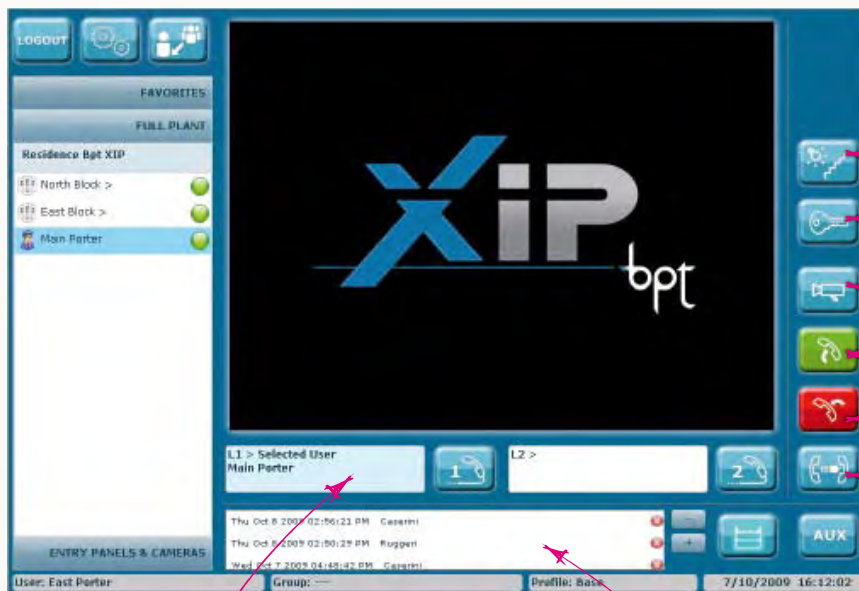
Switches on the lights on the stairway for the current call or on the programmed default stairway

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

Transfer the current call to another user

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

The list of previous events includes all unanswered calls and other information concerning the system. The pre-programmed list of auxiliary commands can be displayed by pressing AUX.

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	50MB free
OPERATING SYSTEM	Windows XP/Vista
AUDIO DEVICES	Microphone+loudspeaker
VIDEO CAMERA	Built-in / external
REQUIRED SOFTWARE	Adobe Flash Player 10; Windows Explorer 7.

ACCESS CONTROL FUNCTIONS

The access control function is designed to control access via the transit points controlled by the entry panels without the need to add any devices to the video entry system. The user is identified by an RFID Tag or by a numerical code; if the code is valid and enabled, the system will action the lock release at the transit point.

The access control functions are implemented by the VA/01 and VA/08 power supply modules, and can therefore be used with extremely simple systems in which the entry panels feature an RFID reader module or a numeric keypad module.

Programming can be carried out manually (though with certain limitations) or using the system configuration software to programme the badges and the codes assigned to each user and the access points which they are authorized to transit.

The ETI/XIP video entry system gateways add a series of advanced access control functions which can be configured by connecting directly to the interface via the data network and using a standard internet browser such as Internet Explorer.

The advanced access control functions are associated with the access permits assigned to each group of users.
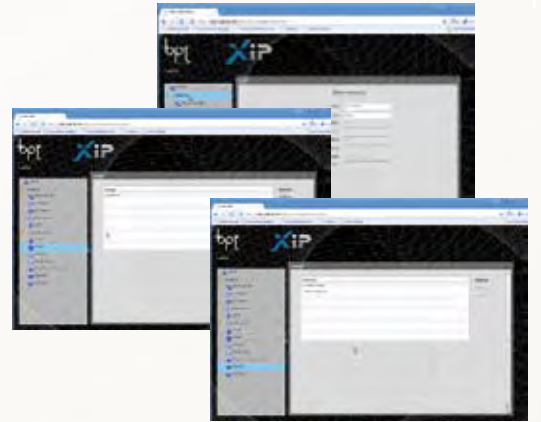
Example of access control for a user having a specific access permit:
- access path to Building A only
- time of day for access 08:30 - 12:30
- days of the week: Monday - Friday
- holidays: NO

BDDE BY BPT - SECURITY OF DATA

To guarantee the security of the data memorized and the integrity of the information in the event of a breakdown in the data network, the system utilizes the BDDE (Bpt Dinamic Data Exchange) system, which can be used for replication, in at least two gateways, of all configurations, logs and user information. The BDDE system not only performs independent synchronization of all the data; if a power supply module or an interface require replacement, the system automatically transmits the configuration data and settings to the new devices so that full operation can be resumed without delay.

The security of the data and of its transitions via the local network is guaranteed between the interfaces and between the interface and the configuration PC by the SSL 128-bit encrypting protocol (the same system used in Home Banking software).

All information stored in the interface databases is encrypted using the MD5 algorithm for total security.

ACCESS PERMITS

A combination of four parameters are used to define access permits:

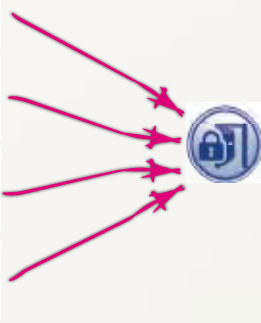|		
	PATHS	A "path" is a set of transit points to which access is permitted.
	TIMES OF DAY	Specific periods during the course of the day during which access is permitted.
	DAYS OF THE WEEK	Days of the week for which access is permitted.
	HOLIDAYS	Days on which access is NOT permitted.

STEP 1: CREATING AN ACCESS PERMIT

The four parameters combine to create the access permit. Access will only be granted when all four of these parameters are complied with.
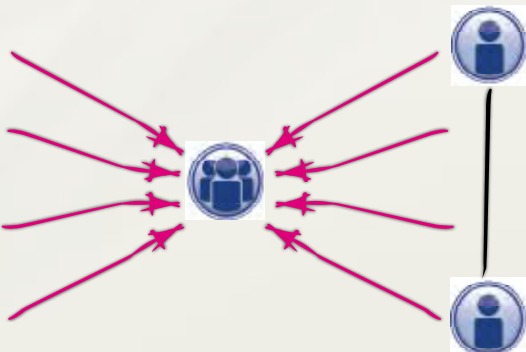
For example:
1) the entry panel must be on the specified path
2) the time must fall within the specified periods
3) the day of the week must be among those selected
4) the day must not programmed as being a holiday

STEP 2: ASSIGNING THE NUMERIC CODE AND BADGE

Each user is assigned a numerical code and, where required, an RFID tag (badge).

STEP 3: CREATION OF USER GROUPS

Multiple access permits are associated with groups with which the individual users, too, are associated.
When a user is identified by a badge or code and at least one of the access permits associated with his or her group is valid, access will be granted.

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 "properties of objects" 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.
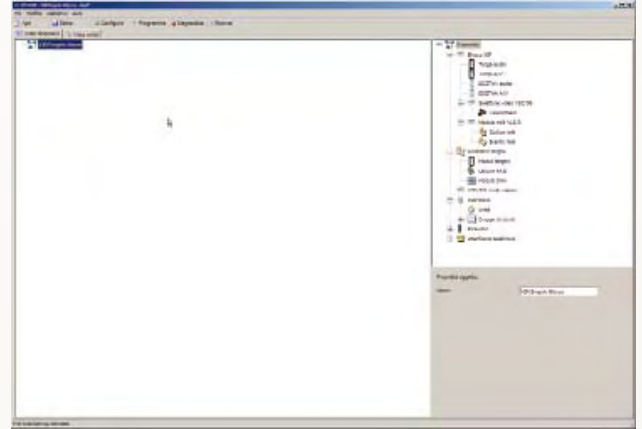
In this way, the entire system can be programmed (or re-programmed) from a single point.

All RFID access control devices can be acquired off-line via the PCS and with DREAD, and programmed once they have been connected to the system.

All access control information stored on the PC is encrypted.
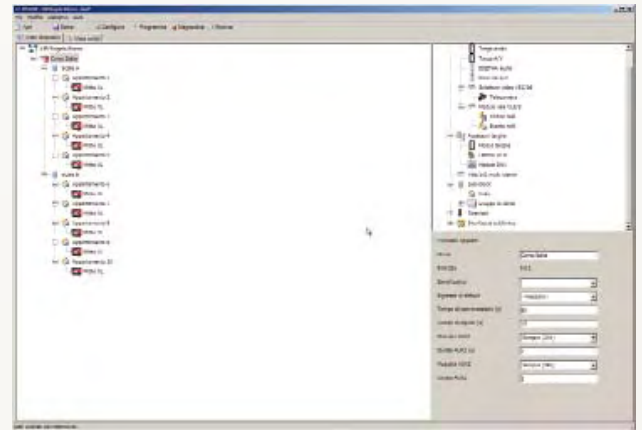
The "Views" section can be used to enter advanced access control settings and for self-connection of the entry panels by the users.
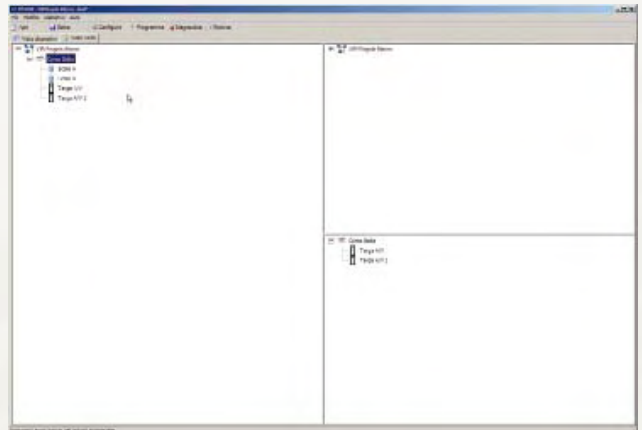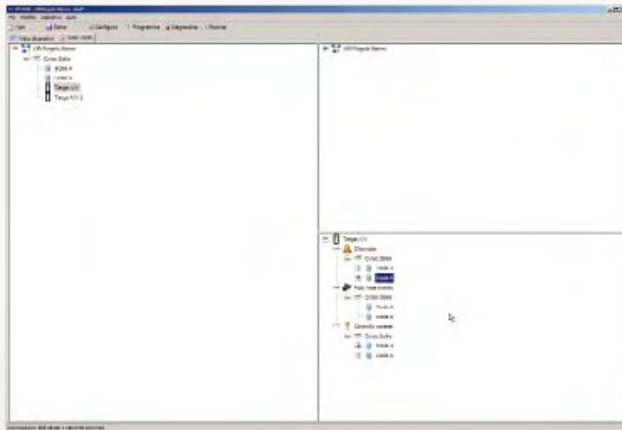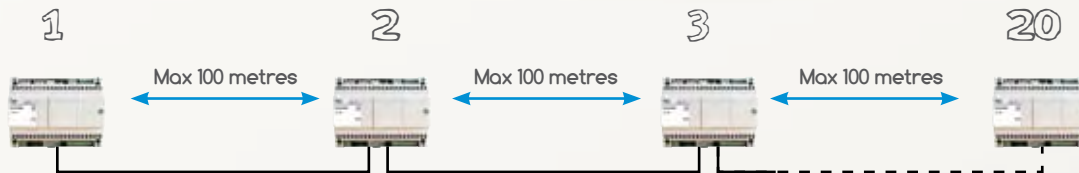
CONFIGURATION OF THE NETWORK

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.
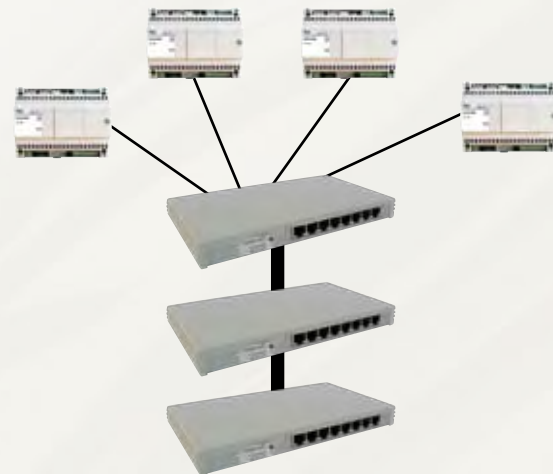
CONFIGURATION OF THE NETWORK PARAMETERS

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.
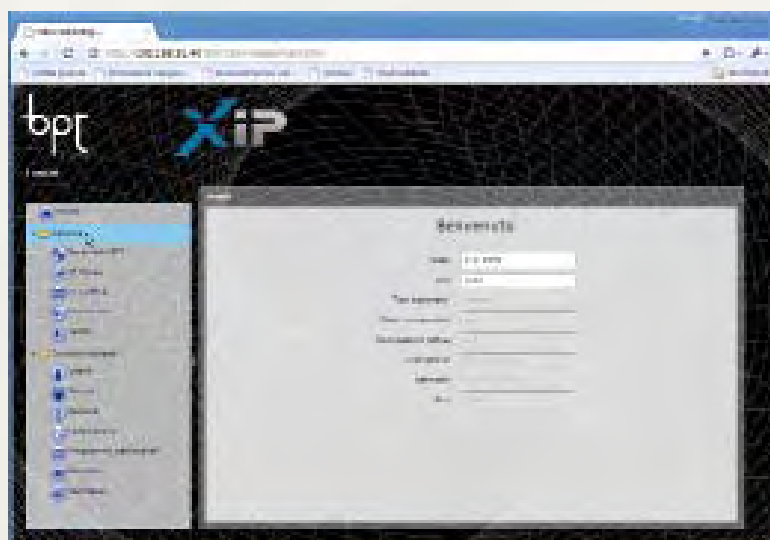
XIP: RESIDENTIAL SYSTEMS WITHOUT LAN

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.

NEW
AVAILABLE FROM
JUNE 2010

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
———	VCM/2D
———	VCM/4D
———	COAX

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.
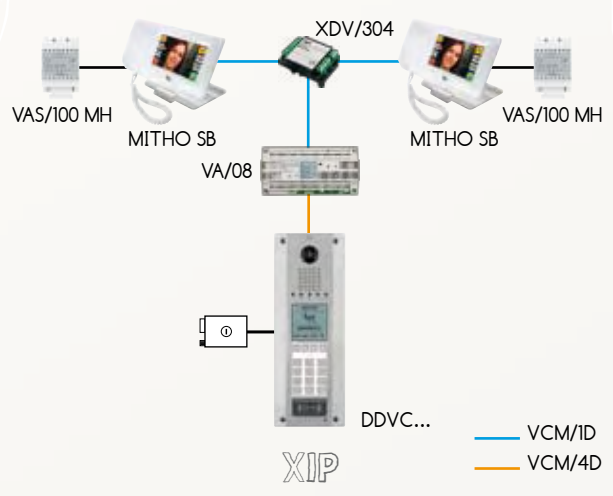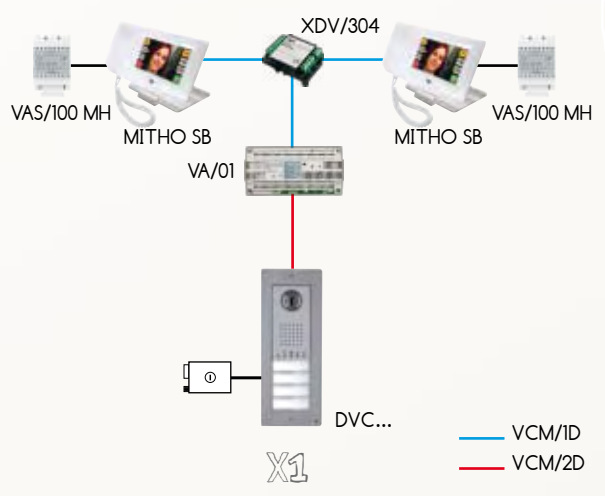- Up to 4 main entry panels

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.

VAS/100 MH   XDV/304
MITHO SB   VAS/100 MH
MITHO SB
VA/01
DVC...
X1
VCM/1D
VCM/2D

VAS/100 MH   XDV/304   VAS/100 MH
MITHO SB   MITHO SB
VA/08
DDVC...
XIP
VCM/1D
VCM/4D

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   MITHO SB   MITHO SB
XDV/304   XDV/304
VAS/100 MH   VAS/100 MH   VAS/100 MH
VA/01   VA/01
XDV/304A
DVC...   VAS/100 MH   VAS/100 MH   DVC...
DDVC...   XDV/304
MITHO SB   MITHO SB
VA/08
DDVC...
VCM/1D
VCM/2D
VCM/4D
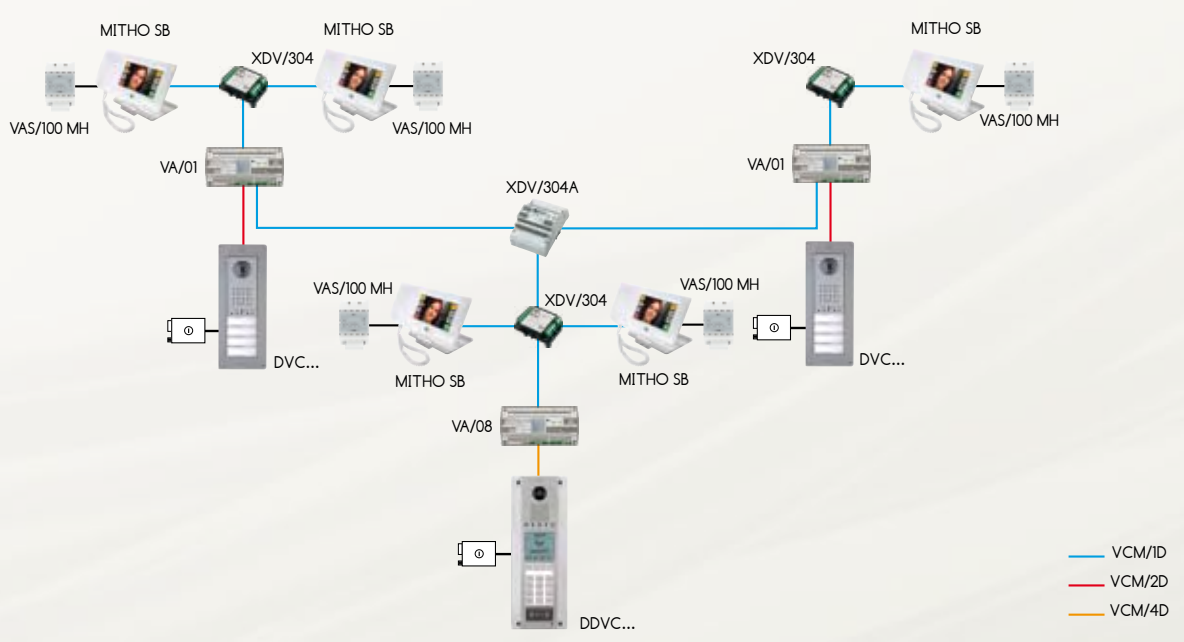
The Mitho SB interface is specially designed for simplicity of operation. The switchboard operator always maintains full control of the status of the system and can perform the following functions simply by touching the screen:

Switch on stairwell lights and
auxiliary services

Enable /disable the interception of calls

Select the most frequently-used
functions from the "Preferred"
menu

Scroll down the list of users for
transfer of calls

Control all the video cameras,
including the entry panels

Forward messages to the individual
receivers

Examine the list of unanswered
calls

Listen to messages memorized in the
voicemail system

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.

BPT CABLES

With the X$_{\text{IP}}$ 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.

VCM/4D CABLE

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

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

FOR EACH TYPE OF CONNECTION

TYPE OF CONNECTION	RECOMMENDED WIRE
Connection between entry panels and power supply modules VA/08 DVC/08	VCM/4D

TYPE OF CONNECTION	RECOMMENDED WIRE
Distribution on riser XDV/304	VCM/2D for X1 systems with separate power supply for the receivers
XDV/304	VCM/1D for X1 systems with receiver power via bus

DISTANCES

STANDARD SYSTEM

NVMKIT/X1

XDV/304

MITHO

VAS/100 MH

OPHERA

YKP/301+
YVC (YV)

VA/08

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

		VCM/4D	UTP5
VA/08 m		250	30
Q=Tot amount of cable run		1000	120

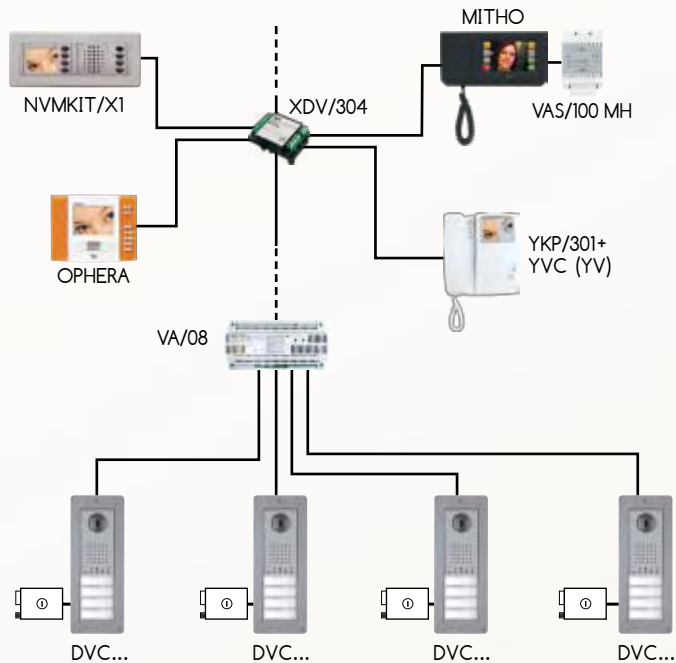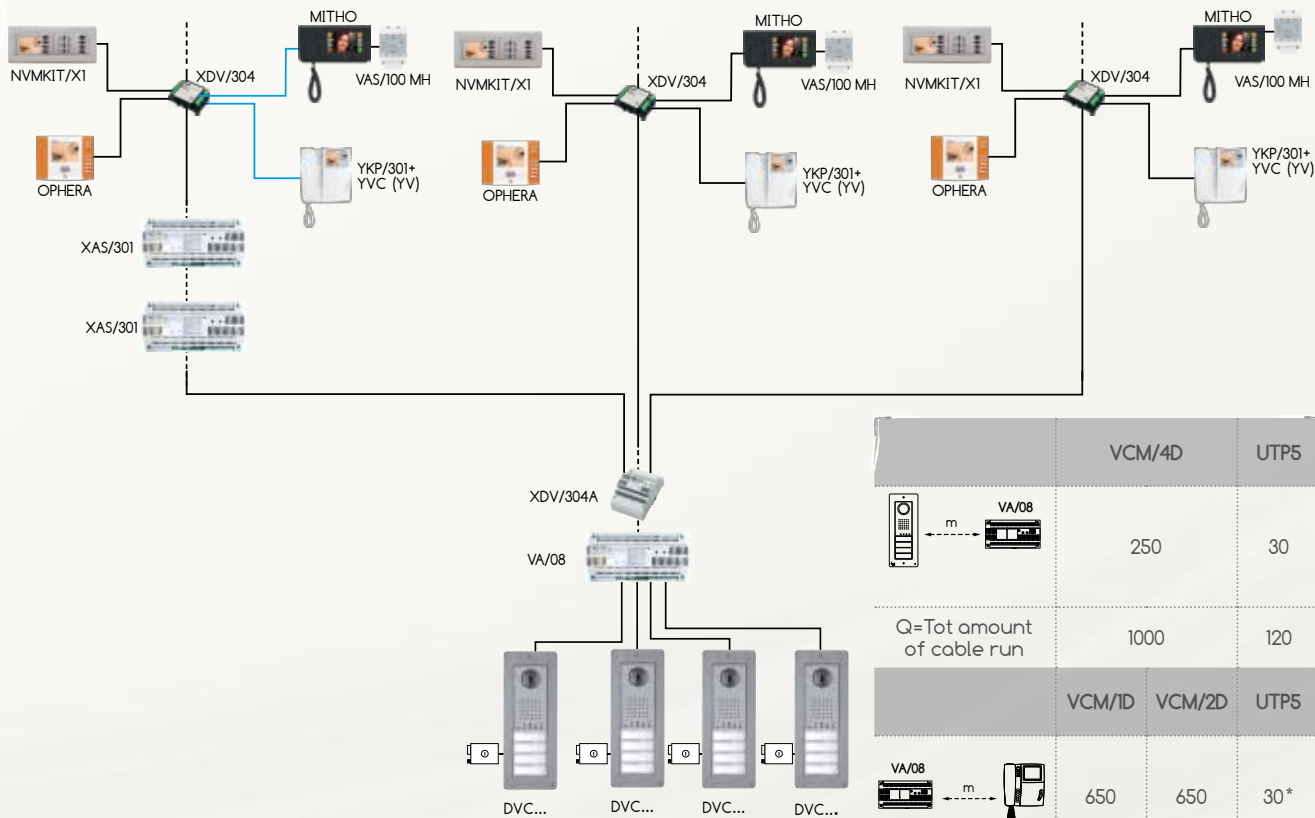|	VCM/1D	VCM/2D	UTP5
VA/08 m	100	250	30
Q=Tot amount of cable run	1000	1000	400

SYSTEM WITH LINE AMPLIFIER

NVMKIT/X1   XDV/304   MITHO   VAS/100 MH

OPHERA   YKP/301+ YVC (YV)

NVMKIT/X1   XDV/304   MITHO   VAS/100 MH

OPHERA   YKP/301+ YVC (YV)

NVMKIT/X1   XDV/304   MITHO   VAS/100 MH

OPHERA   YKP/301+ YVC (YV)

XAS/301

XAS/301

XDV/304A

VA/08

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

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

		VCM/4D	UTP5
VA/08 m		250	30
Q=Tot amount of cable run		1000	120

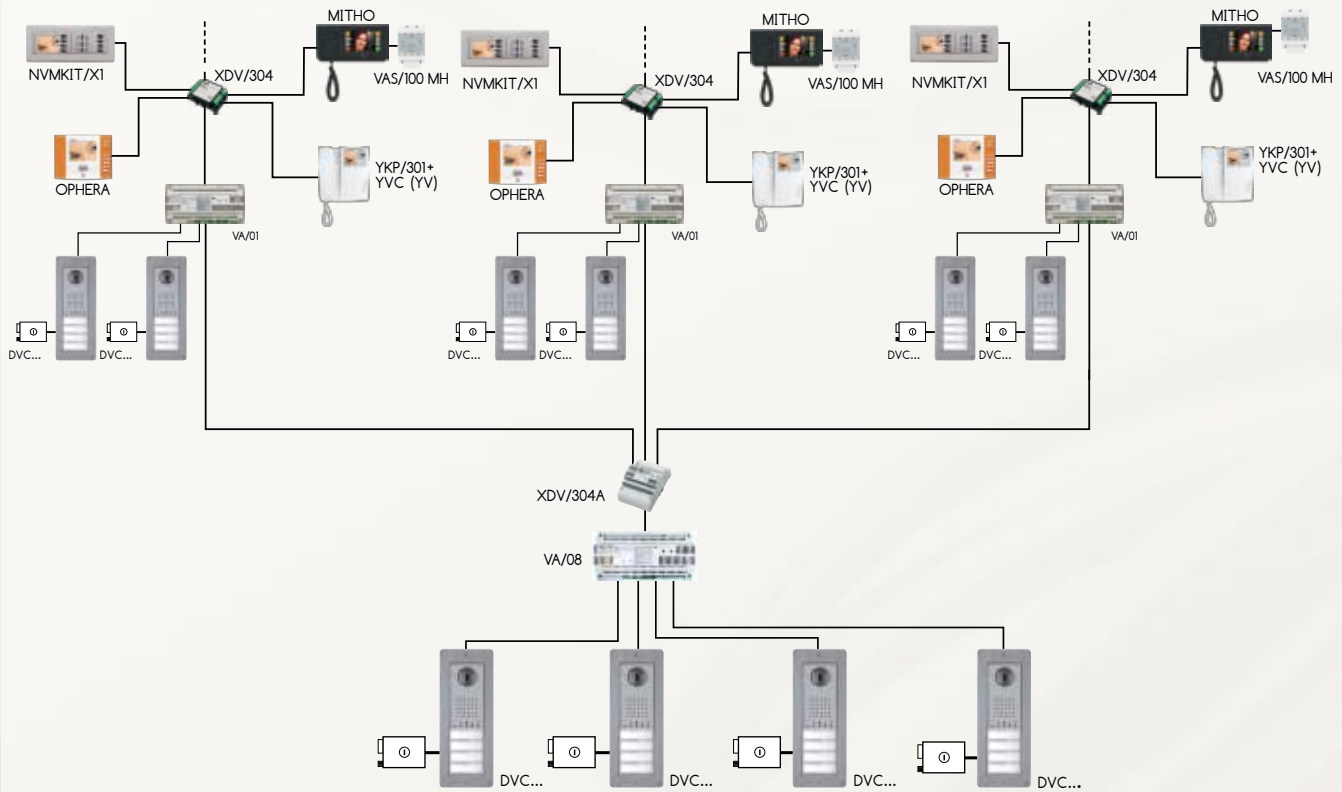|	VCM/1D	VCM/2D	UTP5
VA/08 m	650	650	30 *
Q=Tot amount of cable run	3000	3000	400 *

(*) For each additional power supplier XAS/301, maximum distance from entry panel to receiver and from VA/01 power supplier to receiver increases by 250 m (extra 1000 m of cable run), provided there is no receiver or the latter is locally supplied

DISTANCES

RESIDENTIAL SYSTEM

	VCM/4D VCM/1D		UTP5
m [entry panel] → VA/08	250		30
Q=Tot amount of cable run	1000		120
	VCM/1D	VCM/2D	UTP5
VA/08 → m → VA/01	250	250	250

	VCM/2D		UTP5
[entry panel] ← m → [receiver]	150		60
	VCM/1D	VCM/2D	UTP5
VA/01 → m → [receiver]	100	100	30
Q=Tot amount of cable run*	600	600	400

(*) 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, ...

- VCM/1D
- VCM/4D
- COAXIAL
- 2 WIRES
- USB

XDV/304
MITHO
VAS/100 MH
NVMKIT/X1
YKP/301+ YVC (YV) + YP3
OPHERA
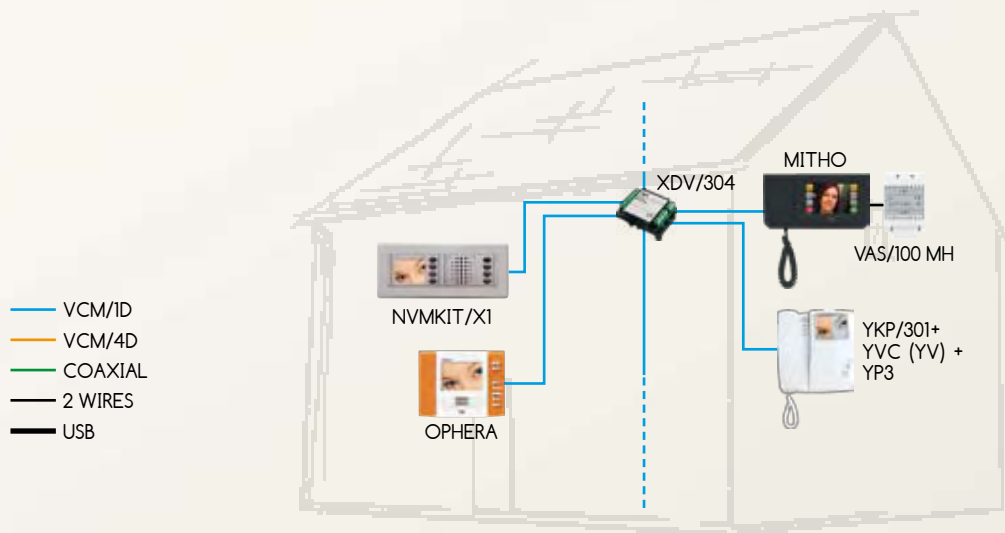
... it is possible to create systems with 4 separate entrances connected in 'star' configuration and 100 internal receivers for each block.

VA/08   VAS/100.30
DVC... DVC... DVC... DVC...
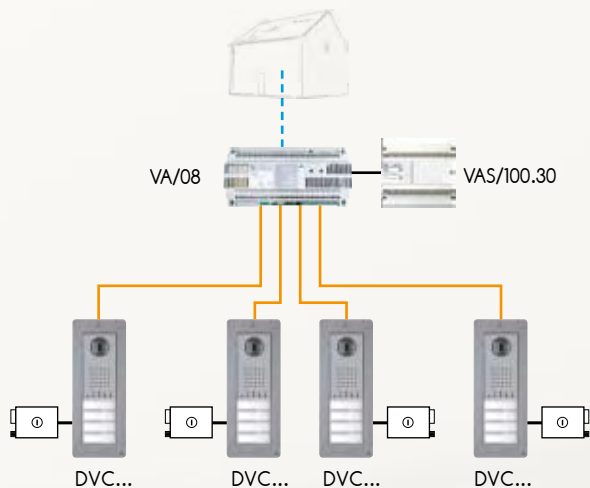
... or systems with cyclic selection of 4/8/12 video cameras that can be viewed from the receivers.

VA/08   VAS/100.30
VSC/08
DVC... DVC... DVC...
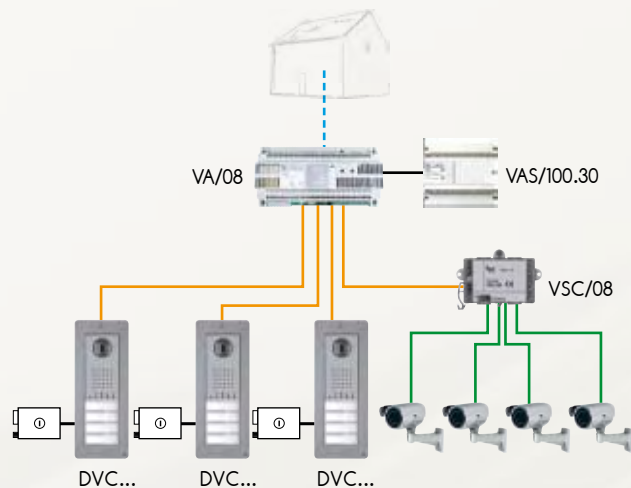
... using software programming via PC connected to the power supply module or the entry panels or to any point of BUS through RIR/08
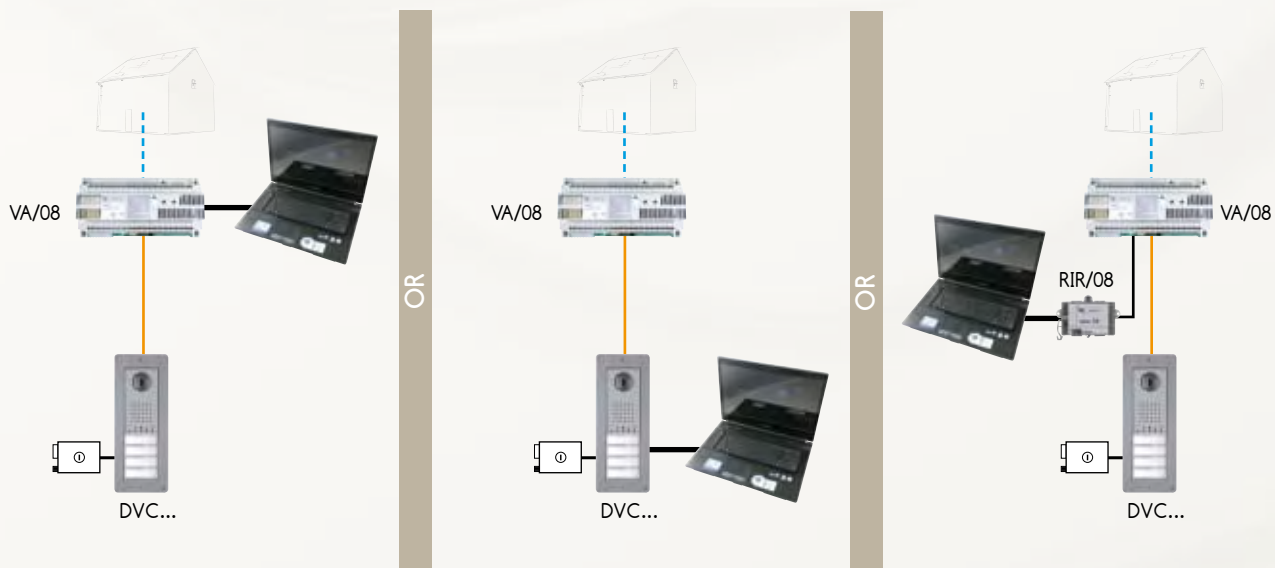
VA/08

OR

VA/08

OR

VA/08

RIR/08

DVC...

DVC...

DVC...

... it is possible to create an access control system with manual programming for smaller residential systems.

VA/08

DVC...
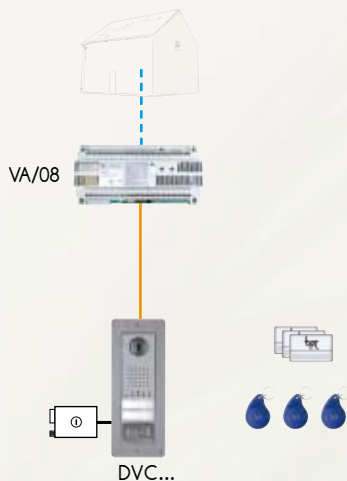
... it is also possible to create programmed access control systems using programming software for large residential complexes with numerous users and access permits.

VA/08

VAS/100.30

DDVC/08   DDVC/08 DDVC/08   DDVC/08

bpt

lol
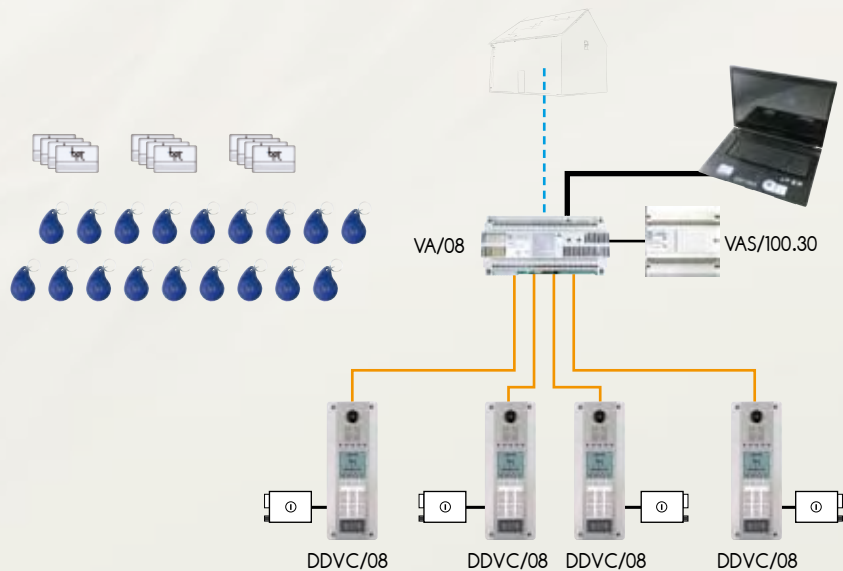
SINGLE HOUSE SYSTEM WITH INTERCOM FUNCTION AND ACCESS CONTROL

In order to add the access control function to the system, it is sufficient to install an entry panel with a DRFID proximity key reader or the DNA access control keypad. The proximity keys or access codes can be programmed manually in just a few seconds. For increased security, the door lock release can be controlled remotely using the VLS/300 actuator (in this case the electric door lock must be powered separately).
In either case, the door lock can be connected directly to the entry panel. The use of the XDV/304 distributor makes it possible to connect the receivers in "star" configuration. The use of this module is not required if the receivers are connected in "daisy-chain" configuration.

SYSTEM WITH RECEIVER POWERED VIA THE BUS

YKP/301+
YVC (YV) +
YP3

XDV/304

YKP/301+
YVC (YV) +
YP3

VSE/301

VA/08

DVC/01
DPH
DRFID

VCM/1D
VCM/4D
2 WIRES
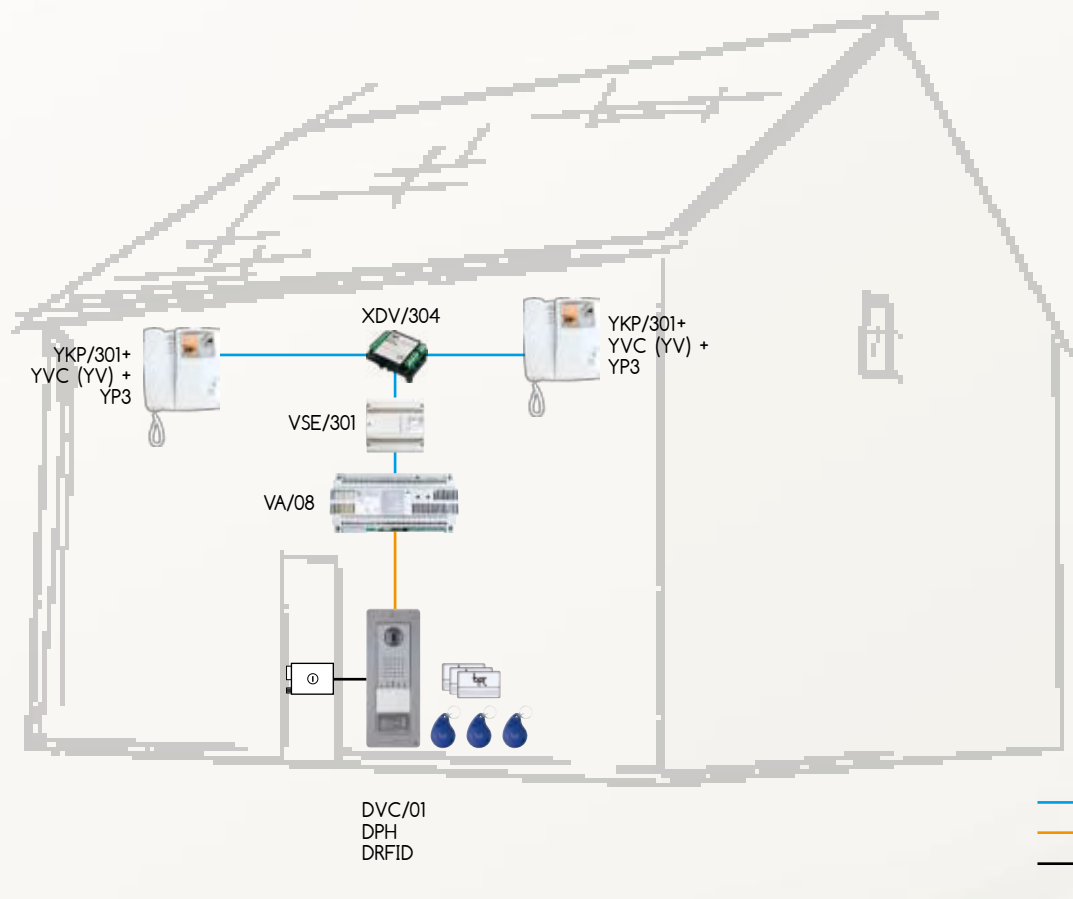
DVC/08
DPS
DNA

Alternative:
Thangram with DNA access control keypad

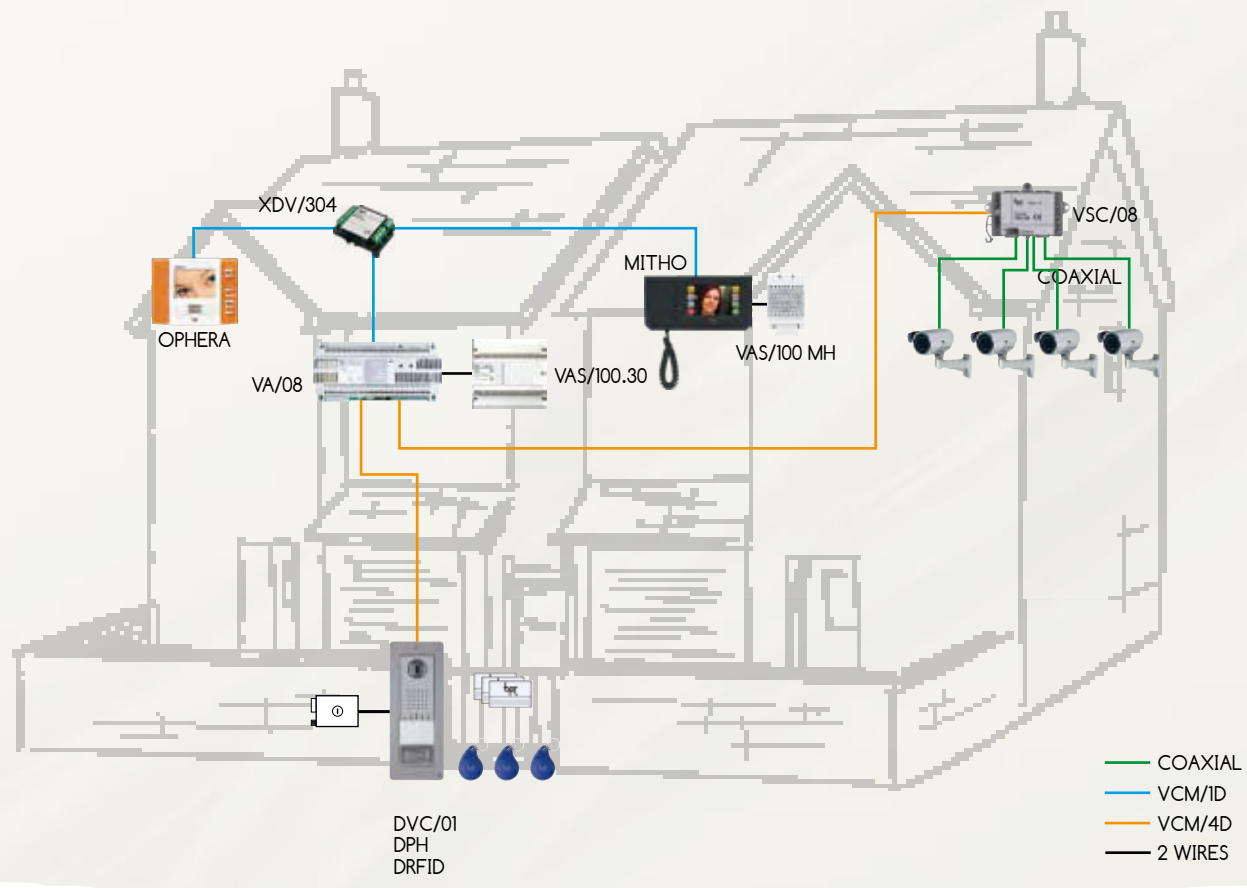## SYSTEM FOR TWO-FAMILY HOUSE WITH ACCESS CONTROL AND EXTERNAL VIDEO-SURVEILLANCE

To add the access control function, it is sufficient to install an entry panel fitted with the DRFID proximity key reader or the DNA access control keypad. The proximity keys or the access codes can be programmed manually in just a few seconds. To add the external video-surveillance function, it is necessary to install the cyclic selector for 4 video cameras (VSC/01) and then to connect B&W cameras (video standard CCIR/ EIA) or colour cameras (video standard PAL/NTSC). The images can be displayed manually in sequence from the receivers using the "self-connection" function. The use of the XDV/304 distributor makes it possible to connect the receivers in "star" configuration. The use of this module is not required if the receivers are connected in "daisy-chain" configuration.

SYSTEM WITH RECEIVER POWERED VIA THE BUS

XDV/304

OPHERA

VA/08

VAS/100.30

MITHO

VAS/100 MH

VSC/08

COAXIAL

DVC/01
DPH
DRFID

	COAXIAL
	VCM/1D
	VCM/4D
	2 WIRES

DVC/08
DPS
DNA

Alternative:
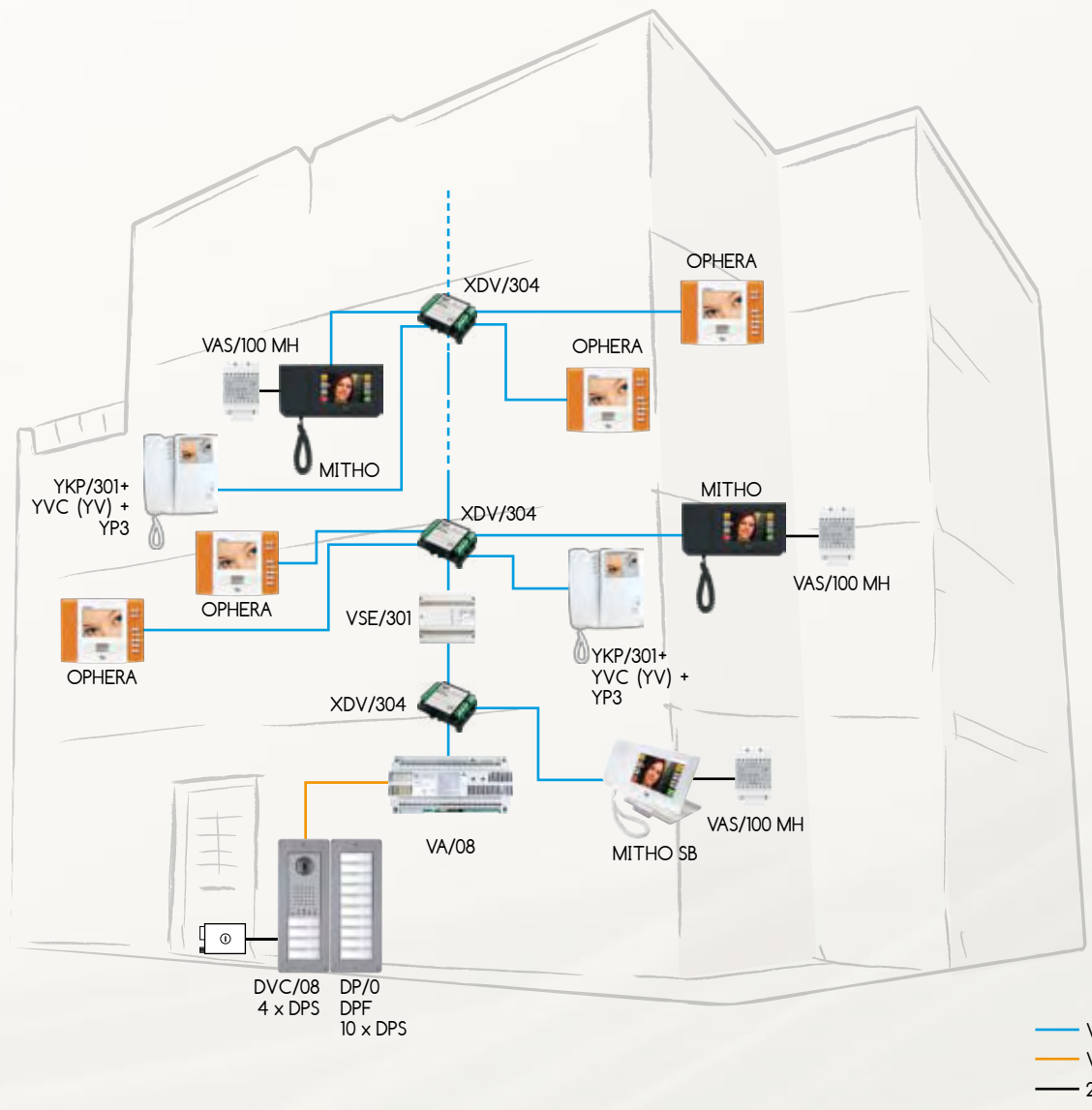Thangram with DNA access control keypad

XIP System

EXAMPLES OF
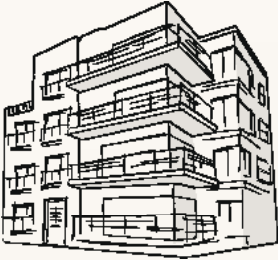
APARTMENT BLOCK WITH SINGLE ENTRANCE, INTERCOM FUNCTION AND PORTER SWITCHBOARD

For this type of system, it is necessary to install the video entry panel and to fit one or more additional pushbutton panels depending on the number of lines that are required. For up to eight lines, it is sufficient to install a single video entry panel with double pushbuttons. The intercom function requires the addition of the VSE/301 selector downstream of the power module. All the apartments (up to 6/10 apartments depending on the receiver selected) can use the intercom function in which the confidentiality of the call is assured. 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, with the exception of the NVMKIT/.. and YVL/301 models.

SYSTEM WITH RECEIVER POWERED VIA THE BUS

XDV/304

OPHERA

VAS/100 MH

OPHERA

MITHO

MITHO

YKP/301+ YVC (YV) + YP3

XDV/304

VAS/100 MH

OPHERA

VSE/301

OPHERA

YKP/301+ YVC (YV) + YP3

XDV/304

VA/08

VAS/100 MH

MITHO SB

DVC/08 4 x DPS

DP/0 DPF 10 x DPS

— VCM/1D
— VCM/4D
— 2 WIRES

APPLICATIONS

APARTMENT BLOCK WITH MULTIPLE ENTRANCES, MULTIPLE STAIRCASES AND PORTER SWITCHBOARD

For this type of system, it is necessary to install the video 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, with the exception of the NVMKIT/.. and YVL/301 models.

SYSTEM WITH RECEIVER POWERED VIA THE BUS

——	VCM/1D
——	VCM/4D
——	2 WIRES
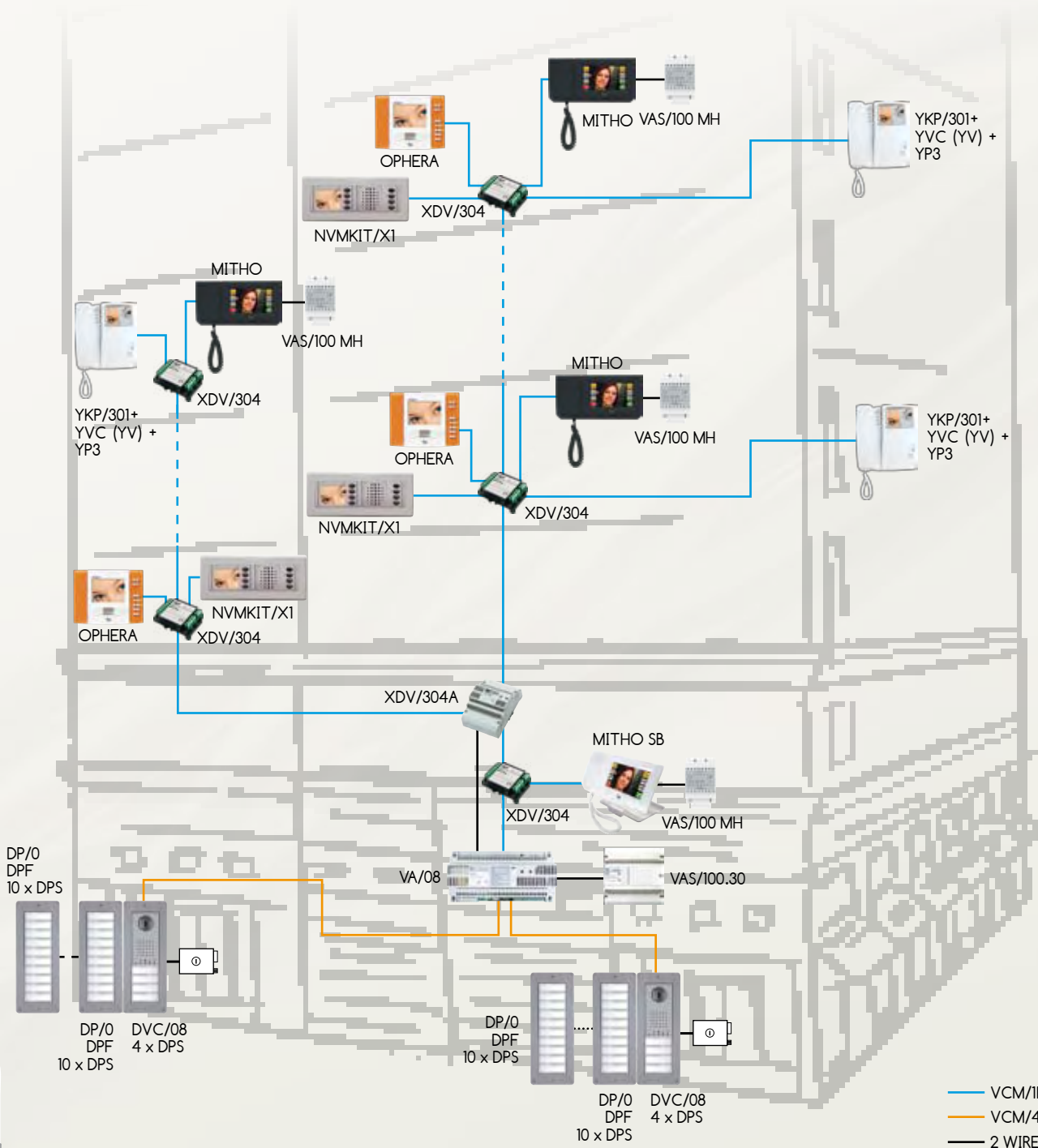
SYSTEM COMPONENTS

POWER SUPPLY MODULES

VA/08 code 62700020

XIP

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/100.30 code 62703310

XIP X1

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.

XAS/301 code 62704700

XIP X1

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 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 code 62821300

XIP X1

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 each output. Power supply directly from bus line.

XDV/304A code 62825800

XIP X1

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 code 62747400

XIP X1

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 code 62740020

XIP

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

OTHER COMPONENTS

ETI/SER XIP code 62740040

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 Porter software. Power supply 230 VAC 600 mA.

VLS/101 code 62816200

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 code 62800290

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 code 62740030

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 AC code 62740050

XIP Gateway for ethernet

The ethernet gateway makes it possible to use the data network for the creation of an entry 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 BDDE protocols. Power supply 18VDC 250 mA.

DREAD code 61800370

USB interface with keypad emulation for reading of RFID devices

Used to read devices for entering codes in programming software (tools and web).

XDV/300A code 62822000

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.

MITHO SB NF cod. 62940020

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 cod. 62940010

Table-top porter switchboard

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

NEW AVAILABLE FROM JUNE 2010

XIP System

SYSTEM COMPONENTS

PROGRAMMING SOFTWARE

PCS/XIP code 62800310
**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 code 62800320
License for the utilization of the porter software - single user

CONNECTOR CABLES

VCM/1D code 62828000
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.

VCM/1D/500 code 62828100
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 500m coils.

VCM/2D code 62823300
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.
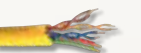Supplied in 100m coils

VCM/2D/500 code 62823400
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 500m coils

VCM/4D code 62823600
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

VCM/4D/500 code 62823700
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 500m coils

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