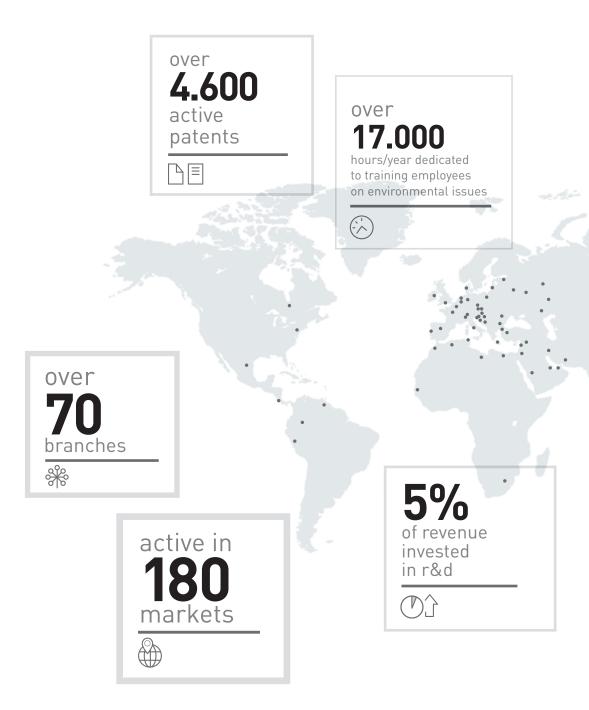
## AUDIO & VIDEO DOOR ENTRY SYSTEM







## COMPANY PROFILE **LEGRAND**

For more than 60 years, Legrand has been supplying integrated solutions for lighting, heating, energy, network and access management in buildings. The Group's business is to design, develop, and market electrical and digital systems that are both simple and innovative, for better communication, tighter security, and improved comfort and convenience in buildings. Legrand is more than ever looking to the future.

The video door entry system range is made by BTicino, which is a Legrand Group brand.



## **50%**

of sales generated with products added to the catalog less than 5 years



of total investments dedicated to the development of new products and solutions









## more than **33.000** employees throughout the world



## AN ACTIVE INTERNATIONAL PRESENCE

Asia, Middle East and Pacific: Australia / China / Hong-Kong / India / Indonesia / Iran / Kazakhstan / Lebanon / Malaysia / New Zeland / Philippines / Quatar / Saudi Arabia / Singapore / South Korea / Syria / Thailand / United Arab Emirates / Uzbekistan / Vietnam / **The Americas:** Brazil / Canada / Chile / Colombia / Costa Rica / Mexico / United States / Venezuela / **Europe and Africa:** Algeria / Austria / Belarus / Belgium / Bosnia-Herzegovina / Bulgaria / Croatia / Czech Republic / Denmark / Egypt / Estonia / France / Germany / Greece / Hungary / Ireland / Italy / Libya / Lithuania / Marocco / Netherland / Potugal / Romania / Russia / Serbia and Montenegro / Senegal / Slovakia / Slovenia / South Africa / Spain / Switzerland / Tunisia / Turkey / Ukraine / United Kindom



## **SOME SHOWCASE PROJECTS**

HAYATTEPE - ISTANBUL
 AMETIST - ANKARA
 HARMONY TOWERS - BURSA

CATALOGUE 3

D45 SYSTEM BTicino simplifies installation in residential complexes with large numbers of apartments. **The use of UTP cables and RJ45 connections for all the devices** provides quick, easy installation for both backbone and riser devices. The system is suitable for the varied requirements of systems of different sizes on risers or TCP/IP networks, ensuring maximum cost saving.

# <section-header>THE HIGH<br/>PERFORMANCE<br/>SYSTEM<br/>OFFER

## INSTALLATION OF UP TO:

## 4000

Apartments

## 800

Handsets per riser

## 80

Entrance panels per riser

16

Switchboards

100

Riser shunts

1 km

Distance for colour video installation



Audio Intercom

Switchboard operation as a comprehensive

alarm management device: alarm receipt,

recording and storage functions.

Digital call entrance panel

## **COMPLEXES WITH LARGE NUMBER OF APARTMENTS**

Anti-tamper function on all indoor handsets Possibility to connect an additional camera to the switchboard Intercom between all the apartment of the riser SOS pushbutton on all indoor handsets Lift control function

## **NEW DIGITAL CALL** ENTRANCE PANEL

## ITALIAN DESIGN WITH HIGH-END MATERIAL

PROTECTION DEGREE IP54 means it is also suitable for critical environments

## PROTECTION AGAINST MECHANICAL IMPACT IK07 means resistant to vandalism

MINIMAL OVERALL DIMENSIONS: just 1.5 cm depth in flush-mounted

Anti-Tamper sensor for better security



**IK07** 





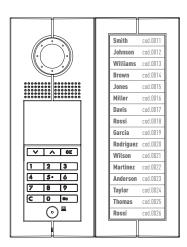
• www.legrand.com

Call by address list or by code

Resident quick name search by letter (like mobile phones)

LCD display with user-friendly interface and customization of the welcome message

Direct call to the security guard



Nameplate module to install at the side of the digital call street panel to insert the list of residents or customised messages.

## **PUSH BUTTON PANEL** AND EXPANSION MODULE







ITALIAN DESIGN WITH HIGH-END MATERIAL

**PROTECTION DEGREE IP54** means it is also suitable for critical environments

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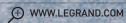
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Main entrance panel 20 push button

PROTECTION AGAINST MECHANICAL IMPACT IK07 means resistant to vandalism

MINIMAL OVERALL DIMENSIONS: just 1.5 cm depth in flush-mounted



**IK07** 

IP54

ONC





ITALIAN DESIGN WITH HIGH-END MATERIAL cover plate in metal finishing

WIDE TOUCH SCREEN DISPLAY The screen occupies a large part of the device in line with current consumer electronics trend



10" TOUCH SCREEN INTERNAL UNIT



7" TOUCH SCREEN INTERNAL UNIT



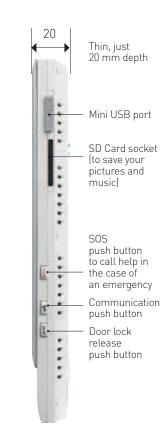
## **MAIN INTERFACE**





## **MESSAGE AND PHOTOS**









## ANTI-BURGLAR & TECHNICAL ALARM

The new touch screen internal unit can work like a real burglar-alarm unit. In fact it can manage up to 8 intrusion and technical alarms.







The alarm contacts and the infrared sensors can detect any intrusions and quickly signal the event, activating the sound alarm on the internal unit. A gas leak or the detection of smoke caused by a fire starting activates the sensor, which sends the alarm signal to the internal unit, making it sound. If there is a switchboard in the main system, the signal that an alarm has been given is sent to the monitoring. The sensors of the technical alarms are active 24h-24h.

CATALOGUE 13





- WALL MOUNTING INSTALLATION
- SOS PUSHBUTTON
- INTERCOM
- DIRECT CALL TO THE SWITCHBOARD
- DOOR LOCK PUSHBUTTON
- DIRECT INTEGRATION WITH ALARM SENSORS





SLIM 7" WIDE SCREEN WITH ALARM FUNCTION



3.5" WIDE SCREEN WITH ALARM FUNCTION



7" WIDE SCREEN



3.5" WIDE SCREEN WITH ALARM FUNCTION







## SWITCH-BOARD

D45 System table top porter switchboard device with high resolution 7" LCD display and icons menu. Able to communicate with handsets, entrance panels and other devices. It manages building incoming calls and alarms. Device can be linked by LAN to other switchboards for the management of larger system. Complete alarms management: receiving, recording and storage of alarms. Management of SOS call records. Provides quick message retrival by using handset addresses. Possibility to directly connect a coaxial camera.



## ENTRANCE PANEL CALL RECEPTION



## ALARM RECEPTION AND MANAGEMENT

**INTERCOM** 

CALLS

CAMERA ENABLING



DOOR LOCK RELEASE



USER FRIENDLY INTERFACE



## **IP MANAGEMENT SWITCHBOARD SOFTWARE**



The integrated IP management software art. 323012 can provide the communication for calls between internal units and the switchboard. This software can be used only joined with D45/IP interface art. 323011



## **THE MAIN DEVICES**

entrance Panel	DIGITAL COLOUR ENTRANCE PANEL	10 CALL PUSHBUTTONS ENTRANCE PANEL	20 CALL PUSHBUTTONS ENTRANCE PANEL	SMALL ENTRY PANEL COLOR	FLOOR CALL ENTRY PANEL
Outdoor video pushbutton panel with camera. It can be used to call the video handsets and to activate the associated door lock. Available in various look and installation models.	322011	322030	322031	322020	322021
Colour video	•	•	•	•	•
Finishes / Colours	Zama	Zama	Zama	Aluminium	Plastic
Wall mounted installation				•	•
Flush mounted installation	•	•	•		
Pushbutton call		•	•	•	•
Digital call	•				
Door lock release with keypad	•				
Power supply	30 Vdc	30 Vdc	30 Vdc	12 Vdc	12 Vdc
Horizontal resolution camera	540 TV lines	540 TV lines	540 TV lines	420 TV lines	600 TV lines
Protection index	IP54	IP54	IP54	IP54	IP33
Protection index against mechanical impact	IK07	IK07	IK07	IK07	IK07
Max. number of calls	4000	10 up to 100 with addictional pushbutton module	20 up to 100 with addictional pushbutton module	1	1



VIDEO Handsets	7/10" TOUCH SCREEN INTERNAL UNIT	COLOUR HANDS FREE 7" ALARM	COLOUR HANDS FREE 3.5" ALARM	COLOUR HANDS FREE 7''	COLOUR HANDS FREE 3.5"	COLOUR HANDS FREE 4.3"
Audio and video handsets for the audio and video reception of entrance panel calls. Using the available icons, the advanced devices can be used to manage the video door entry system functions and the home automation functions. Available in various look and installation models.	321071 / 321070	322050	321011	322052	321060	321061
Colour video	•	•	•	•	•	•
Handsfree	•	•	•	•	•	•
Finishes / Colours	White finish Metal cover	White	White	White	White	White
Display	Touch screen 7" / 10.2" 800x480	7" 480x234	3.5" 320x240	7" 480x234	3.5" 320x240	4.3"
Memory function	•					
Slot SD Card	•					
Alarm management	•	•	•			•
SOS function	•	•	•	•	•	•
Door lock release	•	٠	•	•	٠	٠
Scrolling EP activation	•	•	•	•	•	•
Intercom	•	•	•			
Power supply	30 Vdc	30 Vdc	30 Vdc	30 Vdc	30 Vdc	30 Vdc
Type of installation	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted



D45 System entrance panels

### 322030 322031 322032 322033 322020 322021 322010 322011 Pack Cat.Nos Digital calls colour entrance panels Pack Cat.Nos Additional pushbutton module Zamak digital call street panel with keyboard, Additional Zamak pushbutton panel with pushbuttons on single column Easy insertion / replacement of nameplates Flush-mounting installation (flush-mounting box LCD display and colour camera Equipped with door lock release and burglar alarm notification Configuration screen menu and software upgrade without the need to dismantle the device Flush-mounting installation (flush-mounting box supplied) BT-322032 With 16 call pushbuttons BT-322033 With 32 call pushbuttons sold with the street panel) BT-322010 Without addresses list Single call small entrance panel BT-322011 With addresses list BT-322020 Aluminium alloy single call small street panel to be installed in one-family systems or as private street panel in multifamily systems Nameplate module BT-322012 Zamak nameplate module to install at the side Touch-sensitive pushbutton for calling indoor of the digital call street panel Cat.No BT-322011 to insert the list of residents or customised handsets and direct conversation Double verified intercom calls Surface-mounting messages Easy insertion / replacement of nameplates Floor call entry panel Flush-mounting installation (flush-mounting box supplied) BT-322021 Plastic single call small panel to be installed in 1 one-family system Pushbutton call colour street panels Surface mounting Zamak pushbutton street panel with pushbuttons colour camera. Flush-mounting installation (flush-mounting box supplied) BT-322030 With 10 call pushbuttons BT-322031 With 20 call pushbuttons 1 module BT-322001 Box for street panel wall-mounting installation Rainshield integrated Compatible with Cat.No: - BT-322010 (digital street panel) - BT-321011 (digital street panel with address list) - BT-321030 (10 pushbutton street panel) - BT-321031 (20 pushbutton street panel)

### **Dimensional data**

MODEL NAME	CODE NUMBER	DIMENSIONS (mm)
Entrance panel with call address list	322011	325 x 125 x 44,5
Small entry panel color	322020	141 x 108 x 31
Floor call entry panel	232021	152 x 104 x 25
10 Call pushbuttons entrance panel	322030	325 x 125 x 63
20 Call pushbuttons entrance panel	322031	325 x 125 x 63
16 Additional pushbuttons panel	322032	325 x 125 x 44,5
32 Additional pushbuttons panel	322033	325 x 125 x 44,5
Targa module	322012	325 x 125 x 44,5

2 modules

BT-322002 Box for street panel wall-mounting installation Rainshield integrated Compatible with Cat.No:

pushbutton extension) or BT-321033 (32

pushbutton extension)

Compatible with Cat.No: - BT-322010 (digital street panel) - BT-321011 (digital street panel with address list) - BT-321030 (10 push button street panel) - BT-321031 (20 push button street panel) - and one expansion module: BT-321012 (targa module) or BT-321032 (16 surphutton avtencion) or BT-321022 (22)

## D45 System

## internal units

321070		322050	321061			
321071					1 1004	
321011		322052	321060	322040	1	323001
Pack	Cat.Nos	Touch screen hands-free	internal units	Pack	Cat.Nos	Hands-free colour internal units
		Complete door entry functions managements International standard SOS pus function, programming device to Digital photo frame and came Direct call to switchboard func 6 different default selectable r changed with your favourite m Slot for SD CARD Surge protection	shbutton, intercom ouch screen functions ra functions ction ringtones (can be	1	BT-321060	For standard video door entry functions plus direct call Hands-free colour internal unit with 3.5" TFT LED backlit screen Equipped for standard video door entry functions plus direct call to the switchboard and entrance panel camera activation 12 different ringtones Wall-mounting
1	BT-321070	Wall-mounting 7" touch screen video internal	upit			Audio handset internal unit
1	BT-321071	10" touch screen video interna Hands-free colour interna For standard video entry fun Hands-free colour internal un	ıl unit I <b>l units</b> <b>ctions</b> it with 7" TFT LED	1	BT-322040	Handset audio internal unit, equipped for standard door entry system functions plus Intercom with other internal unit and direct call to the switchboard Possibility to connect an external SOS call switch Wall-mounting
		(16/9 format), SOS function, do and scroling EP activation				Switchboard
1	BT-321061	Hands-free colour internal un LEDbacklit screen, equipped i door entry functionsplus direc to the switchboard and entrar panel camera activation Wall-mounting	for standard video st call	1	BT-323001	Table-top switchboard unit with high resolution 7" LCD display with graphic icons Able to communicate with internal units, street panels and other devices Manages incoming calls and alarms Possibility to save up to 1000 calls and alarms
		For standard video door entr Intercom Equipped for standard video d plus Intercom with other inter call to the switchboard, SOS p possibility of direct connection 12 different ringtones	oor entry functions nal units, direct ushbutton and			and to directly connect an external coax camera Equipped with 12 shortcut pushbuttons for direct access of calls and services
1	BT-322050	Wall-mounting Hands-free slim colour intern function, with 7" TFT LED back formatl	al unit with alarm klit screen (16/9			
1	BT-321011	Hands-free colour internal un function, with 3.5" TFT LED ba				

Dimensional data

MODEL NAME	CODE NUMBER	DIMENSIONS (mm)
3.5" Handsfree internal unit	321011	139,5 x 193,5 x 29
3.5" Handsfree internal unit	321060	158 x 165 x 29
4.3" Handsfree internal unit	321061	120 x 179 x 22,5
7" Touch screen internal unit	321070	157 x 198 x 17
10" Touch screen internal unit	321071	198 x 255 x 27
Audio Internal white	322040	141 x 91 x 34
Colour hands free 7" allarm	322050	175 x 260 x 23
Colour hands free 7"	322052	155 x 225 x 29
Porter switchboard	323001	290 x 170 x 165

∏ Technical information, see

www.homesystems-legrandgroup.com	D45 SYSTEM	CATALOGUE	21
H WWW.LEGRAND.COM			



## D45 System

## system accessories



## Pack Cat.Nos System accessories

1	BT-323002	<b>Floor shunt</b> This is used to convert video signals on the BUS to transfer mode and then distribute them to the connected internal units To be installed between floors Each floor shunt can be connected to 4 internal units DIN rail installation
		One-output floor shunt
1	BT-323022	Interface to be installed between floors Connects all the system BUS adapting video signal from difference ended into a single ended and distribute the BUS to the extensions indoor unit Build in a small plastic case to be installed easily inside the system junction boxes
		Riser shunt
1	BT-323003	Used to connect the riser BUS and system BUS in order to obtain BUS separation Transfer signals and switch between video and audio channels Video transfer distance can be increased by setting the gain adjustment dip switch DIN rail installation
		Entrance panel video mixer
1	BT-323004	Device can mix signals coming from 5 entrance panels Video transfer distance can be adjusted by setting the gain adjustment dip switch DIN rail installation
		Power supply
1	BT-323005	System power supply unit able to supply power on the data communication cable and simultaneously provide impedance matching for the audio channel Protected against short circuits: in case of DC output short circuit, the device will switch to protected mode. Once the problem has been resolved, it will return to normal status automatically Can also be set up to operate as an auxiliary power supply Wall-mounting
		3
1	BT-323007	2-way video splitter Device splits the BUS signal into two channels where the video signal can only be transferred from input to output Provides compensation to the two channels separately and adapts the video signal output from the street panel for different distances via settings Mainly used in riser systems to divide the riser BUS into several channels to adapt the cabling DIN rail installation

DIN rail installation

## Dimensional data

MODEL NAME	CODE NUMBER	DIMENSIONS (MM)
Floor shunt	323002	72 x 105 x 33
Riser shunt	323003	106 x 105 x 33
Entrance panel video mixer	323004	72 x 105 x 33
Power supply	323005	167,5 x 161 x 85
2 Branches video splitter	323007	72 x 105 x 33
Basic apartment interface	323008	72 x 105 x 33
Apartment interface	323009	141 x 105 x 33
Auxiliary power supply	323010	167,5 x 161 x 85
D45/IP interface	323011	90 x 175 x 60

## Basic apartment interface1BT-323008Device must be used in apartments with 2 or 3<br/>internal units<br/>Interface must be installed between the floor<br/>shunt (Cat.No BT-323002) and the internal units<br/>DIN rail installation1BT-323009Device used to expand the number of internal<br/>units and add a small street panel<br/>Each device can connect 5 internal units and 1<br/>street panel, providing the intercom function and<br/>call or monitor function of the street panel<br/>DIN rail installation1BT-323009Auxiliary power supply<br/>Auxiliary power supply<br/>Once the problem has been resolved, it will return<br/>to normal status automatically<br/>Wall-mounting installation

## D45/IP interface

1

Pack Cat.Nos System accessories (continued)

BT-323011 IP interface which can be connected to the D45 SYSTEM and BTicino 2 wire/IP System in order to create mixed installations DIN rail installation

## D45 System

## system accessories (continued)



BT-323016

BT-323018

BT-346858

BT-323016		BT-323018	BT-323023
Pack	Cat.Nos	System accessor	ies (continued)
1	BT-323012	IP management sw Integrated IP manage communication for communication for communicat	ement software provides the calls between internal units
1	BT-323013	(Cat.No BT-323003), switchboard and on Enables a large netw Controls and change	nnected to 4 riser shunts one street panel, one e system power supply work to be created es video channels compensation for video
1	BT-323015	commonly used 12 V When the opening ci 1 A, this device is als locks It is generally conne obtain the door lock Possible to open door manual switches	or locks, particularly the 'cathode locks urrent of an anode lock is over so required to operate anode cted to the street panel to release control signal or locks by means of external e of electric door lock release
1	BT-323016	the BUS to the floor connected to it, so th unit can reach the m metres, to meet spe	idio and data signals from shunt (Cat.No BT-323002) nat the signals from the BUS naximum distance of 200 cific domestic requirements e low voltage subscriber unit
1	BT-323021	camera to the syste The image from the all the internal units Additional camera a level of the system of public area (ex. gard	ts to integrate additional m camera can be visualized by of the system ccessory increases security iving the possibility to monitor len, swimming pool, parking) s max. per accessory

## Pack Cat.Nos System accessories (continued)

		-,,
1	BT-323017	<b>Lift control interface</b> For integrating the D45 system with the elevator system Possibility to manage the elevator directly from the internal unit
1	BT-323018	Entrance panel/Switchboard shunt Used to connect the entrance panel and the switchboard to the system The device automatically switches over the video channels DIN rail installation
1	BT-323019	System expansion interface Extends the riser system when the number of internal units installed on the riser exceeds the limit of 400 The interface can increase this limit to 800 handsets This device is also used to adjust the video gains and improve video transmission quality DIN rail installation
1	BT-323020	<b>Configuration tool</b> Configuration kit consisting of: - SF2 configuration software - Tool interface - Serial extension cable - Flat cable
1	BT-323023	Small street panel video mixer Interface for the installation of several small street panels for each internal unit or for each apartment Permits to install 4 small street panels By using more than one accessory in series, it's possible to install more than 4 street panels
1	BT-346858	<b>D45 to BTicino 2-wire interface</b> Switch-over interface to install the BTicino 2-wire door entry system inside the apartment DIN rail installation

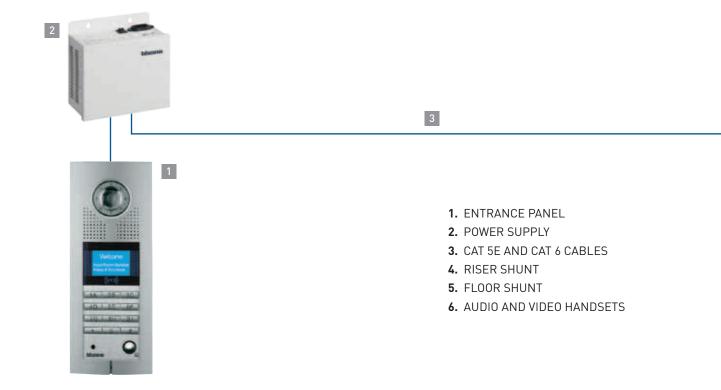
## **Dimensional data**

MODEL NAME	CODE NUMBER	DIMENSIONS (MM)
Distric generator	323013	175 x 105 x 66
Door lock accessory	323015	72 x 105 x 33
House shunt	323016	72 x 105 x 33
Lift control interface module	323017	141 x 105 x 33
EP/Switchboard shunt	323018	72 x 105 x 33
System expansion interface	323019	106 x 105 x 33
Configuration tool kit	323020	48 x 48
SEP video mixer	323023	141 x 105 x 33
D45/2-wire interface	346858	72 x 105 x 33

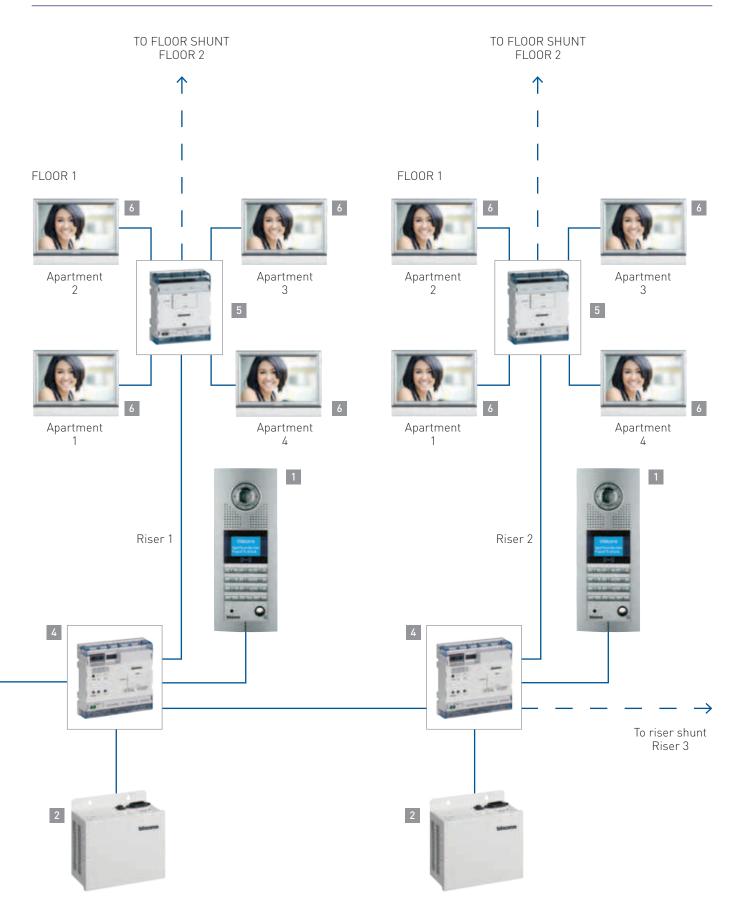


## Example of solution for multi-storey Building





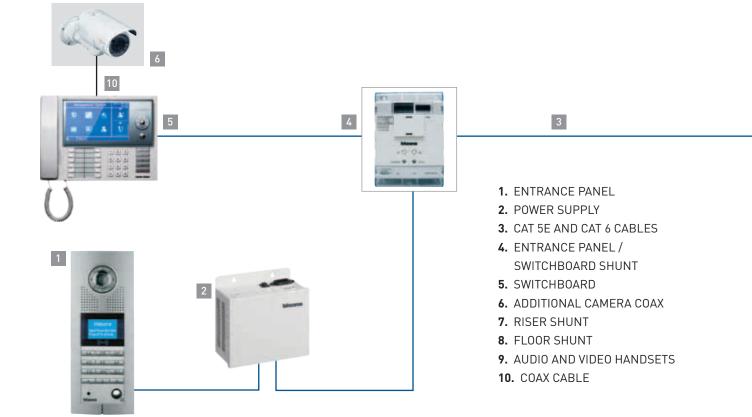
## Example of solution for multi-storey Building

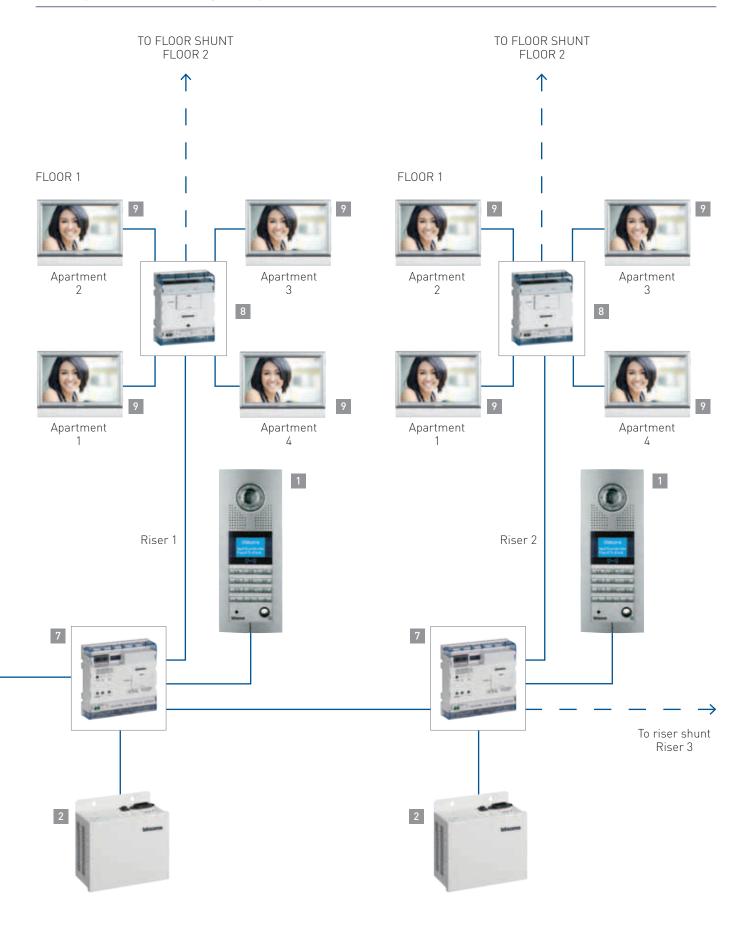




Example of a building complex solution with 1 switchboard







## Example of a building complex solution with 1 switchboard

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