40510
7" Due Fili Plus porter switchboard

2 **DUE**FILI
PLUS

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GENERAL INFORMATION

Device 40510 is a switchboard for the DueFili Plus video door entry system, equipped with a 7-inch colour screen. It can be used in hands-free mode or with a handset.

The instruction manual can be downloaded from www.vimar.com

Installation rules

Installation should be carried out in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.

Regulatory Compliance

EMC directive

Standards EN 60065, EN 61000-6-1 and EN 61000-6-3.

INFORMATION FOR USERS UNDER DIRECTIVE 2002/96 (WEEE)

In order to avoid damage to the environment and human health as well as any administrative sanctions, any appliance marked with this symbol must be disposed of separately from municipal waste, that is it must be reconsigned to the dealer upon purchase of a new one. Appliances marked with the crossed out wheelie bin symbol must be collected in accordance with the instructions issued by the local authorities responsible for waste disposal. For more information call the free-phone number 800-862307.

This product was developed using FreeRTOS™ software - http://www.freertos.org/

Main functions

The switchboard offers the following functions:

1. making and receiving audio calls with the indoor units;
2. receiving audio/video calls from the speech units;
3. implementing automatic self-starts from the speech units;
4. forwarding speech unit calls to indoor units;
5. calling another switchboard;
6. managing warnings from indoor units;
7. managing speech unit locks, stair lights and system relays;
8. activating CCTV cameras for monitoring purposes;
9. logging calls, warnings and activations.

Advanced functions

1. management of Competence Areas
2. management of operation time bands (Day/Night)
3. interception / non-interception of calls (Indoor/Outdoor mode)

The following languages are supported:

1. Italian
2. English
3. French
4. German
5. Spanish
6. Greek
7. Portuguese

Technical characteristics

Technical data:

- Supply voltage: 28VDC nominal
  Power supply via power supply unit 6923 (not supplied)
- Maximum absorption: 300 mA
- Absorption in standby: 86 mA
- 7-inch colour display, 800x480 pixel resolution, 16:9 format
- Ambient class: Class A1 (indoor use)
- Protection degree IP30
- Operating temperature: -5°C to +40°C (indoor use)
- Operating ambient humidity 10 - 80% (non-condensing)
- Electronic chimes with different tunes (10 melodies).
- Dimensions: 242x213x221 mm (WxHxD with support open)
- DIP switch for line impedance termination.

7" Due Fili Plus porter switchboard

Front view

Screen

Handset

Keyboard

Rear and side view

RJ45 socket for connection to the Due Fili Plus system via stud

Dip switch for video termination

Mini USB connector for connection to a PC

7" Due Fili Plus porter switchboard

Keyboard

Key	Description
Menu / Select icon	Menu / Select
Exit / Cancel icon	Exit / Cancel
Up/Down arrows	Up Down
Alphanumeric keypad	Alphanumeric keys
Hands-free icon	Hands-free
End Conversation icon	End Conversation
Internal / External icon	Internal / External
Day / Night icon	Day / Night
Self-start icon	Self-start
Keyboard lock icon	Keyboard lock
Hold icon	Hold
Input / Transfer icon	Input / Transfer
F1 icon	F1 (programmable)
F2 icon	F2 (programmable)
Contacts List icon	Contacts List
Alert notifications icon	List of alert notifications
Events list icon	Events list
Lock icon	Lock

7" Due Fili Plus porter switchboard

Indicators

LED	Status	Description
☼	Steady light	Power - Switchboard on
品	Steady light	Switchboard connected to a PC via USB
📞 / ✉	Flashing light	Unanswered call indication and/or alert notification

External connections

Switchboard 40510 is connected via the "Interconnecting stud" and the corresponding RJ45 Cat. 5E connection cable supplied.
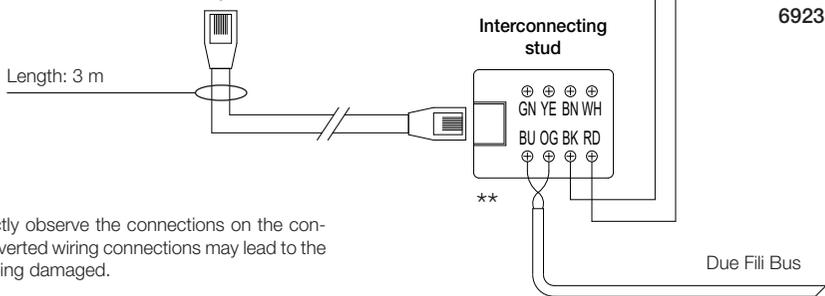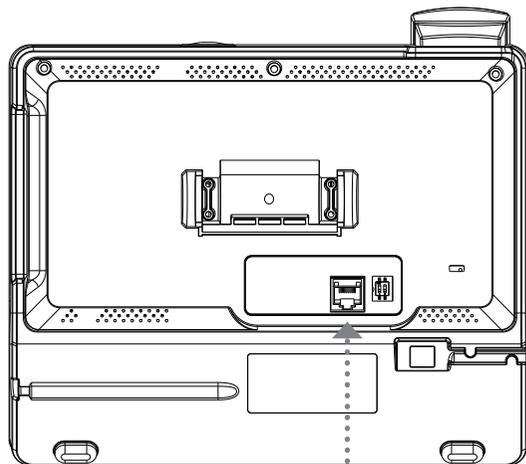
Important: The maximum connection distance between power supply unit 6923 and the interconnecting stud is 10 m.

Mains

PRI

Power Supply unit

- +U +I

6923

Interconnecting stud

GN YE BN WH
BU OG BK RD

Length: 3 m

**

Important: Strictly observe the connections on the connecting stud. Inverted wiring connections may lead to the switchboard being damaged.

**

Due Fili Bus

7" Due Fili Plus porter switchboard

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Connection correspondence table: interconnecting stud - Due Fili system

to switchboard

Access hole for Due Fili Bus and power supply cables
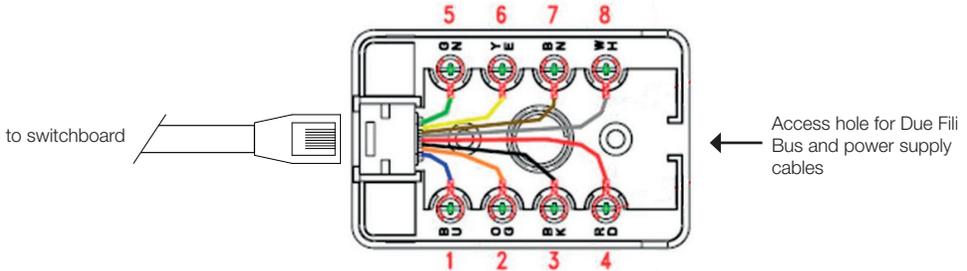
Connection box terminals	Connection box wire colour	Due Fili audio / video door entry system
BU	1 • Blue	1 (Due Fili Bus)
OG	2 • Orange	2 (Due Fili Bus)
BK	3 • Black	from power supply unit 6923 terminal -
RD	4 • Red	from power supply unit 6923 terminal +I
GN	5 • Green	-
YE	6 • Yellow	-
BN	7 • Brown	-
WH	8 • White	-

- Note: We recommend connecting the cables with a fork Faston of a size suited to the stud screws, and inserting it between the head of the screw and the washer, arranging the cables so as to avoid contact between adjacent Fastons.

Video Termination

Select DIP switch to terminate the video signal
A) if the BUS cable enters terminals BU (1), OG (2) of the switchboard interconnecting stud and continues to another indoor unit.
B) when a BUS cable with typical impedance of 100 Ohm (Elvox cable 732I or 732H) enters terminals BU (1), OG (2) of the interconnecting stud and the riser stops in the switchboard.
C) when a BUS cable with typical impedance of 50 Ohm (Cat. 5 or Cat. 6 twisted pair cable) enters terminals BU (1), OG (2) of the interconnecting stud and the riser stops in the switchboard.
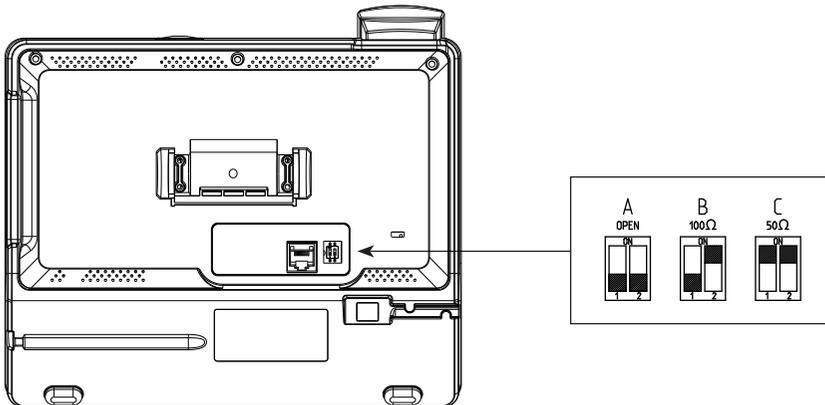
GRAPHICAL INTERFACE

First line

The following icons may appear on the first line of the screen, starting from the left:

	The ringtone is disabled. The switchboard nevertheless accepts calls and it is possible to answer.
	A notification that a door is open has been received.
	The microphone is disabled.
	The keyboard is locked.
	The conversation is taking place in hands-free mode.
	The conversation is taking place via the handset.
	Internal mode
	External mode
	Internal mode with call filter enabled
	External mode with call filter enabled
	Automatic Internal/External enabled (White icon)
	Automatic Internal/External disabled (Red icon)

Last line

The date and time appear on the last line, in the format chosen during configuration.

7" Due Fili Plus porter switchboard
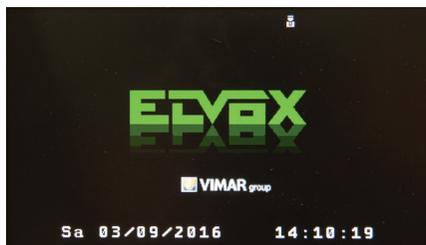
Standby

Stand-by screen

The switchboard enters standby mode after a specified time. In this mode, screen brightness is reduced and electricity consumption limited.

If a function button is pressed when the switchboard is in standby, that function is implemented immediately once the switchboard has awoken. In standby, the key ✖ wakes up the switchboard without implementing any other functions.

Keyboard

The keys carry out their functions when released.

If pressed for at least 0.5 seconds, the following keys perform another function:

KEY	STANDBY	TALKING
1	Ringtone mute	Microphone mute
2 ABC	(Not applicable)	Change parameter in adjustment
☎	Self-start list	
🔑	Activation list	
▤	To serve similar events "indirectly"	(Not applicable)
⚠	To serve similar alerts "indirectly"	(Not applicable)
▣	With events / alert filter enabled, enter the filter ID.	(Not applicable)
✖	When viewing the contacts list, exit directly to standby if the filter is enabled	(Not applicable)
✖	When viewing events / alert, to delete them after entering the installer PIN	(Not applicable)
☾	During clock adjustment, requests the date/time from the device configured as Master Clock	(Not applicable)

Keyboard lock

The key ▣ locks the keyboard. To unlock it, press the key ▣ again, enter the unlock PIN (default 0000) and press the key ◯ . When locked, calls can still be answered by pressing the key [☎] or lifting the handset. At the end of the call the switchboard reverts to locked mode.

7" Due Fili Plus porter switchboard

Basic settings

In standby, the ⬤ key calls up the settings menu, which can be navigated in circular manner using the ⌃ and ⌄ keys. To configure a setting, navigate the list using the ⌃ and ⌄ keys until you have selected the desired option (highlighted in orange), then press ⬤ . The list of available options and possible settings will follow:
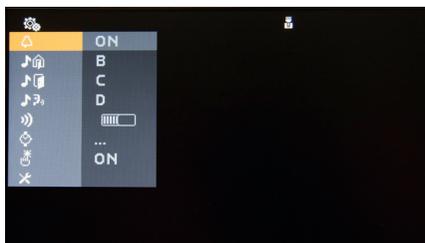
Basic settings menu

- **Ringtone mute**

  Using the ⌃ and ⌄ keys, you can enable/disable the switchboard ringtone. When the ringtone is disabled, the icon will appear in the top right-hand corner of the screen. Press ⬤ to confirm or press ✖ to cancel without saving.

  Default: ringtone enabled.
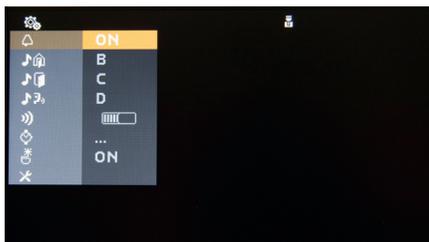
Ringtone enable
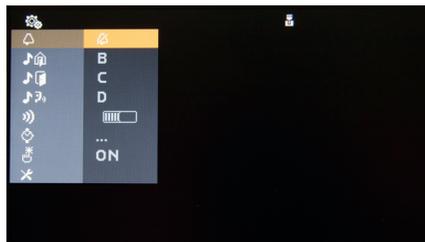
Ringtone disable

- **Select call melody from speech unit**

  Use keys ⌃ and ⌄ to select one of the 10 available melodies (identified by letters A to J) to use as a ringtone for calls from the speech unit. The switchboard plays back the selected ringtone. Press ⬤ to confirm or press ✖ to cancel without saving.

  Default: melody B.

Speech unit call ringtone
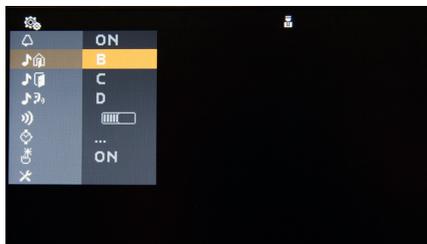
Ringtone selection

- **Select landing call melody**

  Use keys ⌃ and ⌄ to select one of the 10 available melodies (identified by letters A to J) to use as a ringtone for calls from the landing. The switchboard plays back the selected ringtone. Press ⭘ to confirm or press ✖ to cancel without saving.

  Default: melody C.

Landing call ringtone

- **Select call melody from indoor unit or switchboard**

  Use keys ⌃ and ⌄ to select one of the 10 available melodies (identified by letters A to J) to use as a ringtone for calls from an indoor unit or switchboard. The switchboard plays back the selected ringtone. Press ⭘ to confirm or press ✖ to cancel without saving.

  Default: melody D.
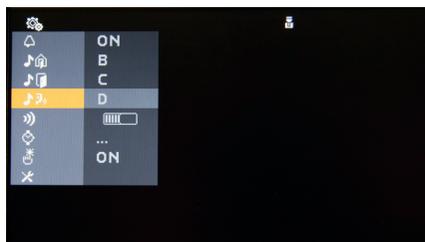
Intercom call ringtone

- **Ringtone volume control**

    Use keys ⌃ and ⌄ to increase/decrease the ringtone volume, which is indicated by the horizontal bar. Press ⬡ to confirm or press ✕ to cancel without saving.

    NOTE: the set level is used for all ringtone types (calls from the speech unit, landing, indoor unit or switchboard).

    Default: level 5.
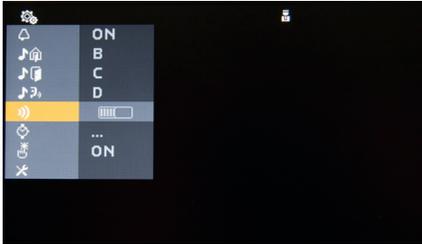
Ringtone volume selection	Ringtone volume control
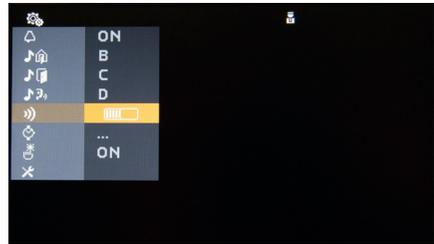
- **Date and time adjustment**

    The keys ⌃ and ⌄ can be used to select the field you wish to change, moving right and left respectively. Use the number keys to change the value of the selected field. Press ⬡ to confirm and update the date and time, after checking its validity. If the date and time are not correct, the switchboard will emit an error tone and move the cursor to the first incorrect field.
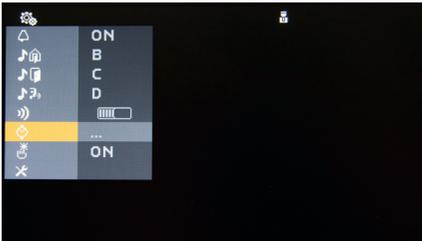
Date and time adjustment selection	Date and time configuration

⚠ NOTE: In the event of a power cut, the device will be able to continue to update the date and time for 48 hours.

NOTE: If the relative function is enabled using SaveProg, the switchboard will automatically adjust the clock at the start and end of Daylight Saving Time. At 02:00 on the last Sunday in March, it will set the time to 03:00, while at 03:00 on the last Sunday in October, the time will be set to 02:00. By default, this function is not enabled.

NOTE: A short press of the ◐ key enables/disables the Master Clock function. When this function is enabled, a tick symbol √ appears alongside the time, and the device will act as the system reference for the date and time, so that all the switchboards will be synchronized automatically (without having to manually set the date and time on each device).

Press the ◐ key for 0.5 seconds and the device will be immediately synchronized with the system's Master Clock switchboard, if present.

Master Clock activation

- **Key tone**

  Use the keys ⌃ and ⌄ to enable/disable the tone produced whenever a key is pressed (keystroke feedback). Press ⭕ to confirm or press ✖ to cancel without saving.
  Default: enabled.
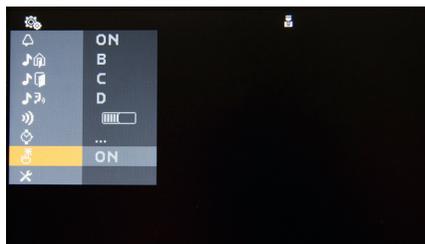
Key tone

- **Installer menu**

  After selecting the option and pressing ⭕, the installer PIN will be requested. The menu then allows access to the advanced settings:
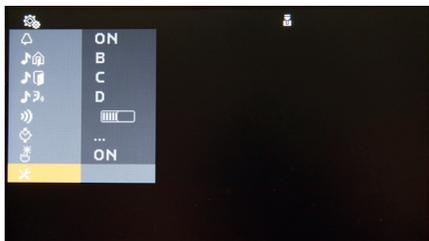
Installer menu
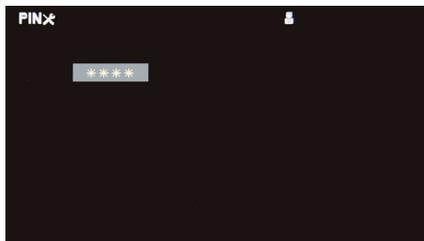
Installer PIN input

Advanced settings

The settings menu can be navigated in circular manner using the ⌃ and ⌄ keys. To configure a setting, navigate the list using the ⌃ and ⌄ keys until you have selected the desired option (highlighted in orange), then press ◯ . The list of available options and possible settings will follow:

Advanced settings menu

- **Switchboard ID**

  Press ◯ to start the ID configuration procedure. In the next screen, enter the desired ID and then press ◯ to confirm. Wait for the verification process to finish; a progress bar will be displayed on the screen. If the verification is completed successfully, the new switchboard ID will be displayed; if not, the device will retain the previous ID and signal the error.

  Default: 1

  For a vertical installation, the ID number must be within the range of 1 to 4. For a horizontal installation, the ID number must be within the range of 129 to 144.

  If the type of installation is changed (from vertical to horizontal or vice versa), the ID will no longer be valid (value indicated as 0) and must be reconfigured.
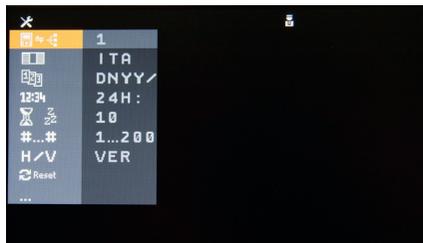
Switchboard ID

Setting ID (Vertical Installation)

Setting ID (Horizontal Installation)

ID verification

Confirm ID

If the type of installation is changed (from vertical to horizontal or vice versa), the ID will no longer be valid (value indicated as 0) and must be reconfigured. If the ID is invalid (or not configured), the device cannot be used and the stand-by screen flashes to indicate this status: press any key and you will be prompted to enter the installer PIN. Enter the correct PIN and press ⊙ to confirm. This will automatically start the ID configuration procedure described previously, and the display will show the "Set ID" screen illustrated above.

- **Language**

  Use the keys ⌃ and ⌄ to select the desired language. Press ⊙ to confirm or press ✖ to cancel without saving.

  Default: Italian.

Language
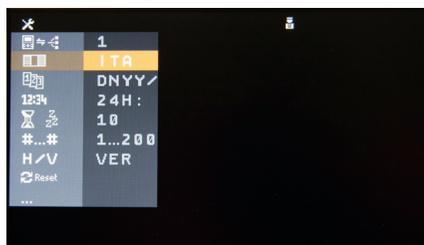
Language selection

- **Date format**

  Use the keys ⌃ and ⌄ to select the desired date display format. Press ◯ to confirm or press ✖ to cancel without saving.

Date format

- **Time format**

  Use the keys ⌃ and ⌄ to select the desired time display format. Press ◯ to confirm or press ✖ to cancel without saving.
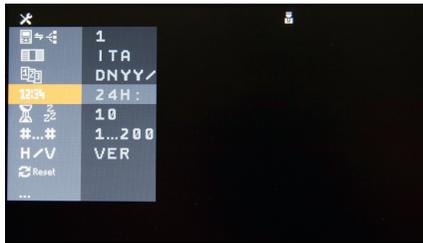
Time format

- **Standby cut-in time**

  Use the keys ⌃ and ⌄ to select the period of inactivity after which the switchboard will switch to stand-by mode. Press ◯ to confirm or press ✖ to cancel without saving.
  Default: 10 seconds.
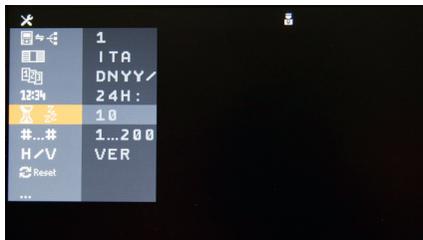
Standby time

- **Numbering plan**

Use the keys ∧ and ∨ to select the numbering plan, choosing between: natural, 4-digit (available for vertical installation only) and 8-digit. Press ○ to confirm or press ✖ to cancel without saving.
Default: natural.

For further details, refer to the paragraph "4- or 8-digit Numbering".
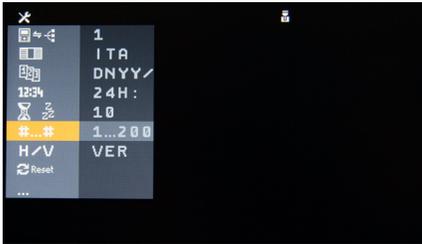
Numbering plan

Natural
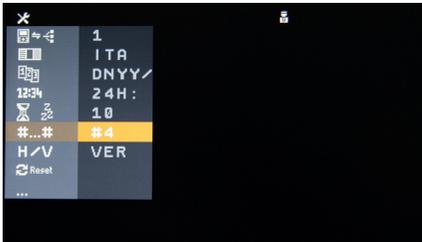
4-digit
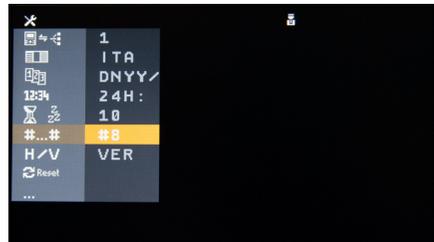
8-digit

- **Horizontal or vertical installation**

Use the ∧ and ∨ keys to select vertical (V - VER) or horizontal (H - HOR) installation type. Press ○ to confirm or press ✖ to cancel without saving.
Default: vertical.

Whenever this parameter setting is changed, the switchboard ID will no longer be valid (status indicated by ID 0), and will have to be reconfigured.

Furthermore, if the installation type is changed from vertical to horizontal and the current numbering plan is 4-digit, this will automatically be changed to 8-digit, as the 4-digit plan is not compatible with a horizontal installation.

Horizontal/Vertical installation

Vertical   **Horizontal**

- **Reset of all parameters to default factory settings**

  Press ⬤ to start the procedure to reset the switchboard configuration. The reset confirmation screen is displayed (see below): press ⬤ to proceed or ✖ to cancel and maintain the current configuration.

  The reset does not affect contacts lists and event lists, which will be retained in the device memory.

Reset default factory settings   **Reset confirmation request**

- **Installer PIN**

  Press ⬤ to start the procedure to change the installer PIN (required to access to the advanced settings menu). In the next screen, enter four digits. Press ⬤ to confirm or press ✖ to cancel without saving.
  Default: 1234.
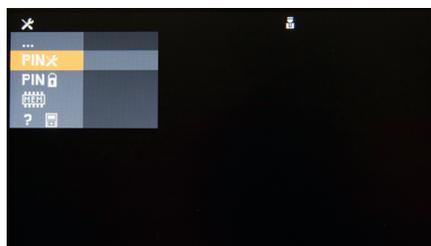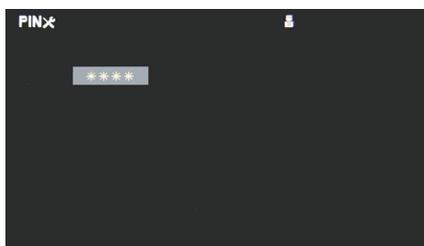
| Installer PIN | PIN setting |

- **Keyboard unlock PIN**

  Press ⊙ the procedure to change the keyboard unlock PIN. In the next screen, enter four digits. Press ⊙ to confirm or press ✖ to cancel without saving.
  Default: 0000.
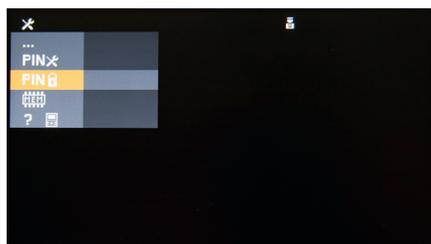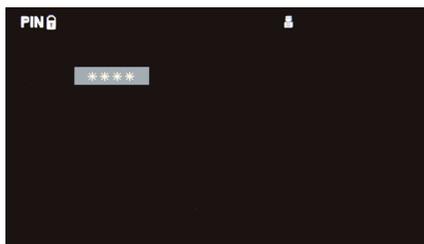
| Keyboard unlock PIN | PIN setting |

- **Events list procedures**

  This option is restricted to the technical assistance service. Do not select it unless this is expressly indicated by the technical assistance service.

- **System information**

  This option is restricted to the technical assistance service. Do not select it unless this is expressly indicated by the technical assistance service.

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USING THE DEVICE

Call to indoor unit or switchboard

To call, carry out one of the following actions:

- Enter the number on the keyboard, then lift the handset or press [⌖] .
- Select the entry in the contacts list (see sub-section "Search contacts list" below), then lift the handset or press [⌖] .
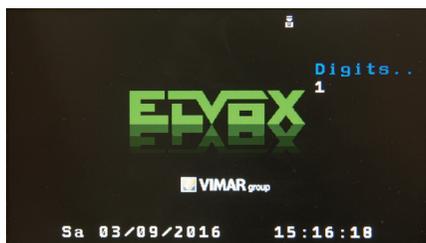
Dialling

Conversation in progress

The call can be ended using the key [✂] , or if the handset is lifted, you can also hang up.

Wait for the call to be answered. The conversation can then be ended as described above.

4- or 8-digit Numbering

In the Due Fili Plus system, and thus also in the switchboard, some devices are able to identify indoor units with different numbers to their ID, or natural numbering. This is referred to as remapping. For a vertical installation, remapping numbers can be chosen from 1 to 4 digits or from1 to 8 digits. For a horizontal installation, from 1 to 8 digits. Usually the numbering follows a logical pattern, such as a division into complex / apartment block / stairway / apartment, but there are no restrictions.

The remapping numbers are defined in the contacts list (only using SaveProg).

The effective application of this function can be decided switchboard by switchboard using the specific configuration described in the paragraph "Installer menu" at point 6.

When remapping is active, in addition to being visible in the details of the users list, it will be used exclusively to identify an indoor unit, for both calls received and calls made to the unit.

It is not possible to make calls to an indoor unit for which remapping has not been defined. If one of these indoor units calls

the switchboard, it's ID will be displayed preceded by the symbol '-'.

Incoming call (from speech unit, indoor unit or switchboard)

In the event of an incoming call, before answering you can:

- Mute the chime (for the current call only) by pressing the key $\boxed{1 \, \triangle}$ for 0.5 seconds.

- Reject the call by pressing the key $\boxed{\times}$.

- While it is ringing, adjust the chime level using the $\wedge$ and $\vee$ keys.

- In the event of a video call, adjust the brightness and contrast. Press and hold key $\boxed{2 \, \text{ABC}}$ for 0.5 seconds to select the parameter you wish to adjust: chime level, brightness or contrast. Selection is cyclical. Then use keys $\wedge$ and $\vee$ to increase or decrease the level.

Information relating to the caller appears in the bottom right-hand corner:

- In the event of a call from the speech unit to the switchboard: the number (and any name included in the self-start contacts list) of the speech unit making the call.
- In the event of a call from the indoor unit to the switchboard: the number (and any name included in the user contacts list) of the indoor unit making the call.

Incoming call from speech unit to switchboard	Incoming call from indoor unit to switchboard
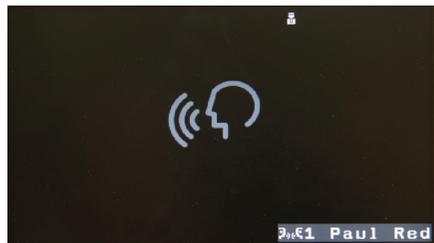
The $\boxed{}$ symbol indicates that it is a speech unit. The symbol indicates that it is an indoor unit.

Answering a call

To answer a call from a speech unit, indoor unit or switchboard:

- When the handset has been hung up, carry out one of the following actions:
  - o Lift the handset: the conversation will be enabled for the handset
  - o Press the key $\boxed{\Omega}$: hands-free conversation will be enabled
- With the handset lifted, carry out one of the following actions:
  - o Replace and then lift the handset again: the conversation will be enabled for the handset
  - o Press the key $\boxed{\Omega}$: hands-free conversation will be enabled

After answering, lift the handset to switch from hands-free to handset mode. Conversely, to switch from handset to hands-free mode: press and hold the key $\boxed{\Omega}$, hang up the handset and then release the key $\boxed{\Omega}$.

Conversation with indoor unit in progress
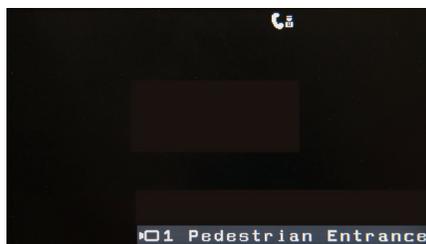
Conversation with speech in unit progress

Adjustments during a conversation

During the conversation, it is possible to adjust:

- Loudspeaker level (differentiated for conversation with indoor unit and speech unit and for hands-free and handset conversation).
- Microphone level (differentiated for conversation with indoor unit and speech unit and for hands-free and handset conversation).
- Brightness (in the case of a video conversation)
- Contrast (in the case of a video conversation)

Once the conversation has started, the loudspeaker level can be adjusted using the keys ⌃ and ⌄. The level varies according to whether the conversation is with an indoor unit or a speech unit, and the relative adjustment applies only to the type of call in progress.

To adjust the other levels, press and hold key [2 ABC] for 0.5 seconds: the bar relating to one of the four parameters appears cyclically at the top of the screen, on the same line as the status icons. Press and hold key [2 ABC] for 0.5 seconds until the parameter you wish to adjust is selected (loudspeaker, microphone, brightness, contrast), then use keys ⌃ and ⌄ to increase or decrease the level.

Press and hold key [1 Δ] for 0.5 seconds to mute the microphone. A specific icon appears in the status bar while this status is applied. To re-enable the microphone, repeat the process.

End conversation

To end the conversation, carry out one of the following actions:

- Press key [✂]
- Hang up the handset (if the conversation took place via the handset)

Putting a call on hold and transferring a call

Press key [⏸] to put the indoor or speech unit involved in the conversation on hold temporarily. The device previously involved in the conversation will emit a specific tone as notification of its on-hold status. While on hold, if the handset is hung up, the call is not ended. Press key [⏸] again to resume the conversation.

A second call can be started while the first call is on hold: enter the number you wish to call, then press the [☎] key or lift the handset (hang up and lift again if it was already in use). Also, while a conversation is taking place, enter a number and press the [☎] key to automatically place the current conversation on hold and start a direct call to the newly entered

number.

When the switchboard is in Internal mode and receives a call from a speech unit intended for an indoor unit, after entering into a conversation with the speech unit, that call can be put on hold and a second call made to the requested indoor unit by pressing key ⊕ , followed by [🎧] .

In the event of a call to a second indoor unit, after receiving an answer, the switchboard can place the two indoor units in a conversation with one another. Press key ⊕ to transfer the call.

The following sequence illustrates the main steps in the procedures for putting a call on hold, starting a second call and transferring a call.
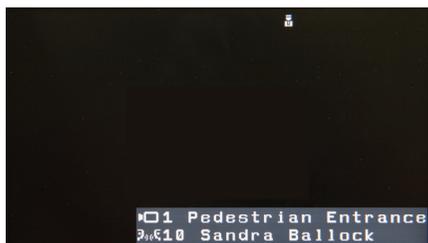
1. Call from speech unit to indoor unit, intercepted by switchboard in indoor mode.

Speech unit 1 (pedestrian entrance) calls user Sandra Ballock, indoor unit 10. As the switchboard in in Indoor mode, the call is received by the switchboard.

2. Conversation between switchboard and speech unit.

The switchboard operator responds by lifting the handset or pressing [🎧] and enters into conversation with speech unit (pedestrian entrance).
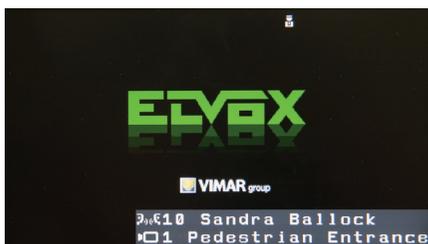
3. Speech unit put on hold by switchboard.

The switchboard operator, after talking to the speech unit, puts it on hold by pressing ⏸ , in order to contact the requested user (hypothesis A) or another indoor unit (hypothesis B).

(Call from switchboard to requested indoor unit):
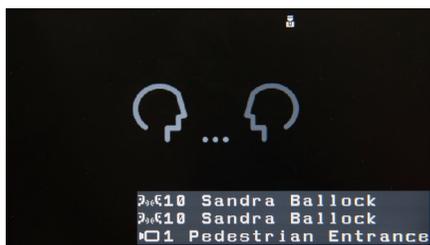
4A. Indoor unit called by switchboard

The switchboard operator makes the call to the requested user (Sandra Ballock) by pressing ⊕ and then [🎧].
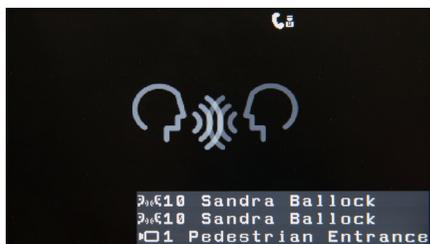
5A. Conversation between indoor unit and switchboard

The user Sandra Ballock answers the call and enters into conversation with the switchboard operator.
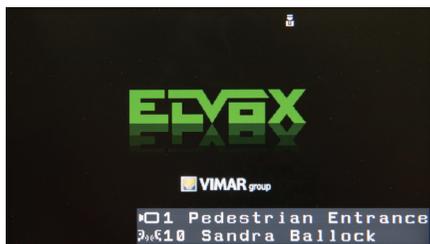
6.A Transfer of conversation between indoor unit and speech unit

The switchboard transfers the conversation to the speech unit by pressing ⊕ . The speech unit (pedestrian entrance) and the user of the indoor unit (Sandra Ballock) start direct conversation and the switchboard operator quits the conversation.

(call from switchboard to another indoor unit):

4.B Call from switchboard to an indoor unit other than that requested

Instead of contacting the requested indoor unit, the switchboard operator contacts a different indoor unit, by dialling the ID and then pressing [🎧]: specifically contacting the user Bill Bean at indoor unit 3.
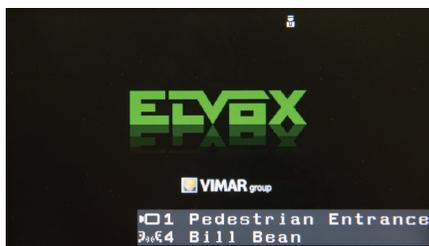
6.A Transfer of conversation between indoor unit and speech unit

After conversing with the user Bill Bean (in the same way as in point 5 A), the switchboard operator transfers the call to the speech unit by pressing ⊕ . The speech unit (pedestrian entrance) and the user of the indoor unit 3 (Bill Bean) start direct conversation and the switchboard operator quits the conversation.

Input

After the switchboard has joined an indoor unit and speech unit (or another indoor unit) in conversation, if one of the two devices involved in the conversation is located in the same system segment/island as the switchboard, the conversation in progress indication remains on the screen of the latter.

In this situation, the switchboard can *enter* the conversation by means of key ⊕ . A specific tone, sounding over the conversation, alerts the users that the switchboard has joined. The switchboard can hear and be heard by all units but cannot force an end to the conversation. If the switchboard leaves the conversation, the other users continue. If one of the two other users ends the conversation, the switchboard will also be forced to leave the conversation.

The switchboard always joins with the audio levels of an indoor conversation.

Internal / External

Press ⚲ to toggle between Indoor and Outdoor operating mode.

This function is only available if the "Competence Areas" function is disabled (see paragraph below).

The switchboard only changes mode if the bus status is not "busy": otherwise it emits an audible and visual warning and maintains the current operating mode.

In Outdoor mode, the switchboard only receives from the speech unit the calls that are specifically addressed to it.

In Indoor mode, the switchboard receives not only the above type of calls, but also all calls originating from any speech unit connected to the same segment/island to which the switchboard is assigned.

Automatic Indoor / Outdoor mode

IT IS possible to configure the switchboard (only using SaveProg) for automatic time band management of Indoor / Outdoor modes. This function is only available if the "Competence Areas" function is disabled (see paragraph below).

The function is applied independently to each switchboard.

Management is simplified and consists of dividing the days of the week into two groups: Weekdays (Monday to Friday) and Weekend (Saturday and Sunday). Each group is then divided into two time bands delimiting the start and end times for the service. When the current time falls within a time band, the switchboard will operate in Indoor mode. When it falls outside a time band, the switchboard will operate in Outdoor mode.

If automatic mode is enabled, the symbol will appear on the first line of icons and the switchboard operator will not be able to manually switch between Indoor and Outdoor mode, except just to temporarily suspend Indoor mode status. To suspend, press ⚲ , enter the suspension time in minutes and press ⚲ to confirm. The maximum time period is fixed at 30 minutes. During this period, the icon turns red ( ) to indicate the situation.

The return to Indoor mode occurs:

1. Automatically on expiry of the set time period

2. If the time band changes during the set time period

3. If the switchboard operator repeats the above procedure, entering "0" as the time period.

Competence Areas (CA)

A Related Zone, hereinafter CA, is an extension of the Indoor / Outdoor mode of the switchboard and automatic Indoor / Outdoor mode.

CAs are configured exclusively using Project Mode of the SaveProg software (consult the on-line help for details).

When they are configured, the   ⌗   key will have no effect.

Strictly speaking, the CA consists of a list of:

1. Indoor units only

2. Speech units only

3. Indoor and speech units

which are served by the switchboard. The CA definition must be identical for all the switchboards in the same installation.

The CAs are subsequently associated with the day/s of the week (or holidays), and for each of these to time bands with subdivisions of 30 minutes.

In each of these three cases, the management procedure is as follows:

1. The indoor units that make a call to a generic switchboard are served by all the switchboards that have those units in an active CA. Calls purposely originated from indoor units are served in any case.

2. Calls originating from the indicated speech units and directed towards any switchboard, are managed by the switchboards that have those speech units in an active CA.

3. Calls originating from one of the speech units in the list _AND SIMULTANEOUSLY_ directed to one of the indoor units in the list are served by all those switchboards that have both of them in an active CA.

Note: when at least two switchboards are present, it is necessary to configure the competence Areas (CA).

Call Filter

When the call filter is enabled, the switchboard will no longer receive calls from indoor units. Two separate filters can be configured. The Indoor Call Filter, if enabled, is applied when switchboard is in Indoor mode. Conversely, the Outdoor Call Filter, if enabled, is applied when switchboard is in Outdoor mode. The two filters can be enabled and disabled independently of each other, but only using SaveProg (consult the on-line help for details). When a filter is active, the icon ✗ appears alongside the relative Indoor/Outdoor mode icon.

Programmable keys

Keys ○ and ○○ are programmable and by default respectively execute commands F1 and F2 for the speech unit in conversation. In standby, the commands are sent to the last speech unit which was contacted or which called.

The keys can only be programmed using SaveProg. The programmable functions are: intercom, self-start, auxiliary function activation, F1 function, F2 function, lock activation.

Dial a number and then press the ○ key to command the F1 output of the speech unit corresponding to the number dialled. Similarly, dial a number and then press the ○○ key to command the F2 output of the speech unit corresponding to the number dialled. This function is executed independently of the function programmed using SaveProg.

Search contacts list

Press the key ⬚ to access the contacts list in List display mode.

For each element, the ID of the speech unit (possibly preceded by the √ symbol, if it is the main name associated with that ID) is shown in the left-hand column, and the user name in the right-hand column. The list is organised alphabetically and can be scrolled using the keys ⌃ and ⌄ .

Press ⭘ to toggle between *List* display and *Detail* display.

List display
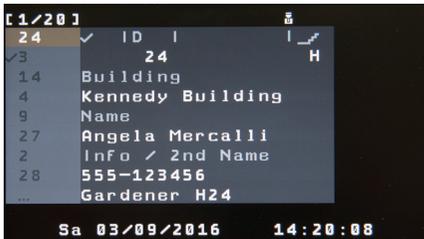
Detail display
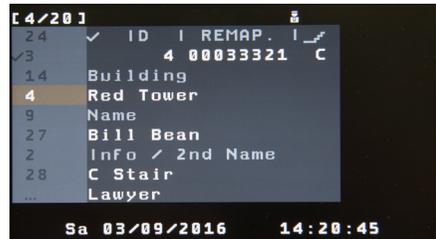
Detail display with remapping active

In this mode the left-hand column remains unchanged, while the following detailed information relating to the selected element appears in the right-hand column:

- ID of the indoor unit (possibly preceded by the √ symbol, if it is the main name associated with that ID), remapping code (if included in the contacts list and active in the switchboard), stairway location (if specified in the contacts list).
- Name of the building in which the indoor unit is located (if specified in the contacts list).
- User name associated with the indoor unit.
- Any user information and/or second name (if specified in the contacts list).

The selection in the left-hand column can be moved to the previous or subsequent line using keys ⌃ and ⌄ . The right-hand part is updated accordingly.

In *List* mode the elements in the contacts list displayed on the screen can be filtered by typing the initial part of the name you are searching for. To do this, use keys [0 ⎵] - [9 WXYZ] with the multi-tap method. For example, if you press key [3 DEF] (letter "E") twice, then key [5 JKL] (letter "L") three times, the filter "EL" will be applied, meaning only the elements

with a name beginning "EL" will be displayed.

The filter is displayed on the left of first line at the top, after the icon ![icon]. During entry, the characters appear in grey; shortly after the last keystroke (multi-tap timeout), they turn white and the filter is applied.

If none of the elements in the contacts list match the entered filter, the message CONTACTS LIST EMPTY appears on the screen.

Once the filter has been applied, you can still scroll through the filtered list using the keys ︿ and ﹀ .

Pressing the key ✖ deletes the last character in the filter. The updated filter is then applied but the selected line is not changed.

When the filter is empty, pressing the key ✖ closes the contacts list. When the filter is enabled, you can close the contacts list by pressing ✖ for at least 0.5 seconds.

Multitap

To enter characters/symbols, use buttons [0 ␣] to [9 WXYZ]. Each button has more than one character/symbol associated with it (see table below):

KEY	SYMBOL
1	1.,:;?!()<>
2	ABC2abc ÁÀÂÃÅÄÆÇáàâãåäæç
3	DEF3def ÐÉÈÊËðéèêë
4	GHI4ghi ÍÌÎÏíìîï
5	JKL5jkl
6	MNO6mno ÑñÓÒÔÕÖØóòôõöø
7	PQRS7pqrs ß
8	TUV8tuv ÚÙÛÜúùûü
9	WXYZ9wxyz Ýý
0	<space>0_$&*#+-=/%" '

To find the desired character/symbol, press the button repeatedly before the end of the time-out, which is renewed with each press of the button.

Lock

Press and release the (🔑) key to send the open lock command to the speech unit with which conversation is taking place. In standby, the command is sent to the last speech unit which was contacted or which called.

Dial a number and then press the (🔑) key to send the command to the speech unit corresponding to the number dialled.

Dial a number and then hold pressed the (🔑) key for 0.5 seconds to send the activation command to the relay corresponding to the number dialled.

7" Due Fili Plus porter switchboard

Press and hold ⬭⚷ for 0.5 seconds; if programmed, the activation menu opens. If the menu is not programmed, a warning tone is emitted. Select the desired activation from the list using the ⌃ and ⌄ keys. Then press the ⬭⚷ key to carry out the activation, or ✖ to exit the menu. The menu also closes in the event of prolonged inactivity.

```
⌐⊙                          �
⚙ A1      B Stair Lights
⚙ A2      C Stair Lights
🚗 P1     Car Reserved
🚶 P1     Pedestrian Entrance
🏠 P1     Main Garage
🌿 P3     Garden Light
⌐⊙ P3     Lift Control
☀ A2      Switch Off Lights

     Sa 03/09/2016      14:20:57
```

Activations menu

The ⬭⚷ key also works in the same way during conversation with the speech unit.

This function can only be programmed using SaveProg (consult the on-line help for details).

Self-start

Briefly press the ☎ key to send the self-start request to a speech unit, in accordance with the sequence programmed on the master speech unit in the system. Subsequent presses advance the sequence, allowing the cyclical activation of several speech units.

Dial a number and then press the ☎ to request the specific self-start of the speech unit corresponding to the number dialled.

Press and hold ☎ for 0.5 seconds; if programmed, the self-start menu opens. If the menu is not programmed, a warning tone is emitted. Select the speech unit or CCTV camera for which you wish to request self-start from the list using the keys ⌃ and ⌄. Then press ☎ to request the self-start, or press ✖ to exit the menu. The menu also closes in the event of prolonged inactivity.

```
⌐⊡                          ⅖
P3    /4   Secondary Entrance
P3    /3   Main Entrance
P3    /2   Courtyard
P3    /1   Main Reception
P1         Pedestrian Entrance
P1         Security Access
P1         Car Entrance
P1         Basement

     Sa 03/09/2016      14:21:10
```

Self-start menu

The ☎ key also works in the same way during conversation with the speech unit.

The self-start function is always started with the microphone muted but the loudspeaker enabled, in order to hear the audio

coming from the speech unit.

This function can only be programmed using SaveProg (consult the on-line help for details).

Editing lists

It is possible to edit the following lists:

- Self-starts
- Activations
- Users

The specified lists can be edited from the switchboard only if they contain fewer than 500 entries. If not, the display shows the error screen illustrated below. Regardless of their size, lists can always be edited using SaveProg (consult the on-line help for details).

Note: the parameters Stairway and Building in the users list can be selected from those which have already been programmed: to add new ones or remove existing ones, edit the buildings list using SaveProg.
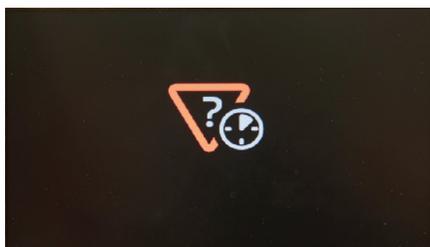
Maximum number of entries in list reached

For each of these you can:

- Edit an existing entry
- Delete an existing entry
- Add a new entry

First activate the list you want by pressing the specific button. If the list is empty, the procedure for adding a new entry starts immediately; otherwise you consult the list in the normal manner.

You can either move around with the arrow keys, or press and hold for 0.5 seconds. The menu opens, allowing you to choose which action to take.
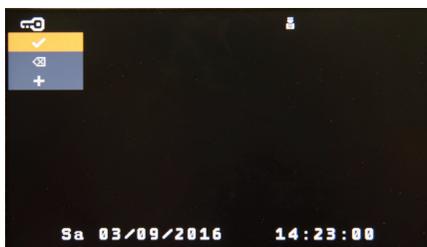
Editing lists

Use the arrow keys to move onto the desired action and press ⭕ to confirm.
The Edit and Delete procedures relate to the selected entry in the list.
You will be asked for confirmation before an entry is deleted:
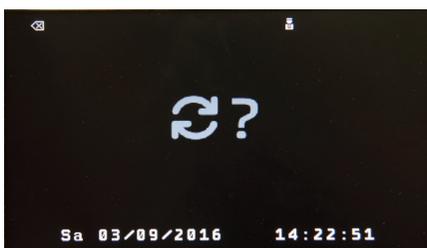
Edit list confirmation request

Press ⭕ to confirm or ✖ to cancel.
The Add procedure creates an empty entry with certain parts set by default according to the type of list.
Regardless of whether the entry to be edited is new or existing, you can use the arrow keys to navigate through the various fields. Once you have identified the field to edit, press ⭕. The available actions depend on the list and the field you are in. Each field of every list is described below.

Self-start list
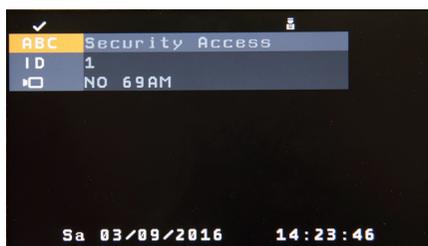
Edit self-start list

HEADING	MEANING	NOTES
ABC	Description	1 to 20 characters that describe the speech unit
ID	ID	Type in the ID of a speech unit
▭	Camera number	1 to 16 if the speech unit is an Art. 69AM or 69AM/T, otherwise NO 69AM

Activation list
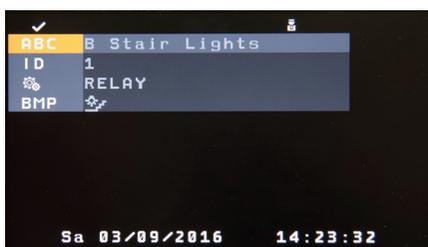
Edit activation list

HEADING	MEANING	NOTES
ABC	Description	1 to 20 characters that describe the activation
ID	ID	Type in the ID of a speech unit or a relay depending on the next field
⚙	Modifier	Using the arrow keys, you can select RELAY, LOCK, F1 or F2.
BMP	Bitmap	This is an image that can be associated with the description. It serves purely as an aide-mémoire. Use the arrow keys to select

Users list
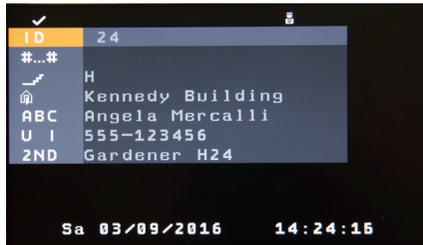
Edit users list

HEADING	MEANING	NOTES
ID	ID	Type in the ID of the indoor unit or switchboard. For vertical installation, numbers 1 to 204 are valid. For horizontal installation, numbers 1 to 41144 are valid. This is also associated with the Main flag
#...#	Remapping	Type in alternative numbering to the ID, up to 8 digits. Use depends on the service being enabled, and is skipped if not enabled
_/	Stairway	The letter of the stairway associated with the building. Different buildings have different stairways associated with them. Use the arrow keys to select
⌂	Building	The name of the building in which the indoor unit or switchboard is located. Use the arrow keys to select
ABC	User Name	1 to 20 characters
U I	User Information	1 to 20 characters
2ND	Second Name.	1 to 20 characters

To edit an alphanumeric field (i.e. **ABC** , **U I** or **2ND**), use the **0** to **9 WXYZ** keys with the multitap method to enter letters, numbers and symbols. The **✕** key deletes the character furthest to the right. Press **◯** to confirm the changes, then select the next field to edit using the arrow keys.

To edit numerical fields, use the **0** to **9 WXYZ** keys and press **◯** to confirm.

To edit other types of field, press **◯** to confirm the changes, then select the next field to edit using the arrow keys.

For remapping only, press **✕** to clear any existing remapping.

Pressing **✕** for 0.5 seconds while selecting the field takes you back to the list view and cancels any changes, without requesting confirmation. The same happens if you take no action before the list editing menu times out, causing the switchboard to go into stand-by.

In the Users List, the Main flag toggles during editing of the ID of the indoor unit or switchboard by means of the arrow keys.

The check sign ✓ appears before the ID.

Pressing **◯** for 0.5 seconds starts the procedures for checking the congruity of the data entered and saving it if applicable. If there are problems with the data entered, the switchboard emits an error tone and switches the first incorrect field, from top to bottom, into editing mode. The conditions of validity are as follows:

1. Self-start list

a. The ID must be between 1 and 8248

b. The camera number cannot be higher than 16

c. The description must not be empty

2. Activation list

a. If the modifier is set to RELAY, the ID must be between 1 and 6000. If it is set to LOCK, F1 or F2, the ID must be between 1 and 8248.

b. The description must not be empty

3. Users list

a. ID of indoor unit or switchboard

b. The ID must be unique, apart from the Main flag.

c. The remapping must be unique

d. The User Name must not be empty

The saving process lasts a fraction of a second for self-start and activation lists, but lasts several seconds for the users list. During saving, a progress bar appears, to indicate that the changes are being saved.

<u>Note</u>: **Internal and external calls take priority over the editing of lists, so if the switchboard receives an incoming call, this causes the system to exit the editing process immediately, with the loss of all changes made but not yet actively saved. The list editing procedure is not intended as a tool for routine use, but only for the occasional editing/ creation of a few entries. The right tool for routine use is Project Mode in SaveProg.**

All edited lists can be imported into Project Mode in SaveProg. Refer to the SW in question for operational details.

Events list

When there is at least one event that is not served/not answered, the icon will flash at the top right of the screen.
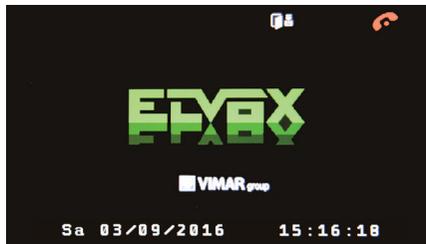
Events notification

The switchboard saves the following events in memory (the type under which they are classified is shown in brackets):

1. Calls unanswered by the switchboard, i.e. missed calls (EVENTS).

2. Calls purposely rejected by the switchboard (EVENTS).

3. Lock activations (LOCK).

4. Relay activations (RELAY).

5. Door open notification (DOOR OPEN).

6. Door closed notification (DOOR CLOSED).

7. F1 activation (F1)

8. F2 activation (F2).

To access the list, press the ⬛ key: the most recent event will be shown (indicated by the number 1). Use the keys ⌃ and ⌄ to scroll through the list, ordered from the most recent to the least recent event. To close the display, press the ✖ key or wait for the inactivity timeout to elapse.

To delete the entire list of events, press and hold the key ✖ for at least 0.5 seconds, then enter the installer PIN. It is not possible to delete a single event.

Note: the maximum number of events is 400, after which the least recent event in the list is automatically deleted.

The display includes the following information.

On the first line, on the left, the type of event. On the right, indicated in the format I / T (N): the index of the event displayed (I), the total number of events in the list (T) and the number of events not yet served (N).

The date and time of the event is indicated on the second line, in blue and in the configured format.

On the third line, in the case of EVENTS, the message NOT SERVED/NOT ANSWERED is displayed, or alternatively the date and time when the event was served. For details see the next paragraph, Events service.

The fourth line displays information relative to the source of the event: a symbol followed by the user identification number and, if applicable, name. It may be an indoor unit 📱, a speech unit 📷, or another system device, such as a relay, for example ✹.

The fifth line displays information relative to the destination of the event or additional generic information. For example, the symbol 🖥 to indicate a switchboard, or 📱 for an indoor unit, followed by an identification number, and, if applicable, a name.
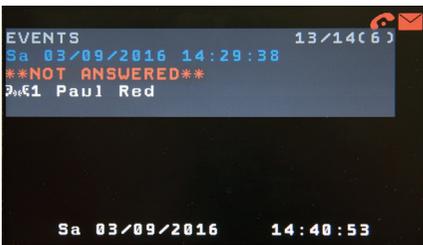
Call to switchboard from indoor unit, not answered
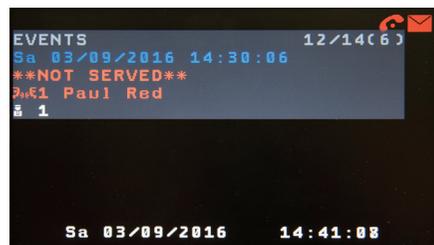
Call to switchboard from indoor unit, rejected
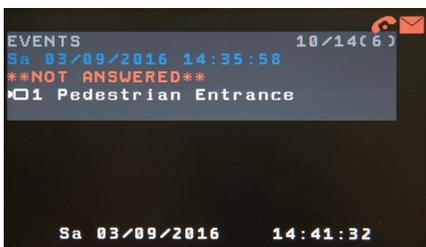
Call to switchboard from speech unit, not answered
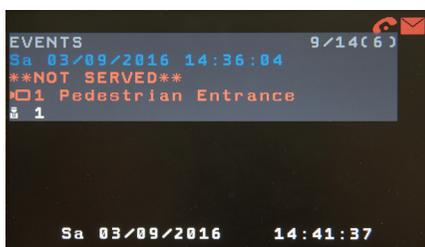
Call to switchboard from speech unit, rejected
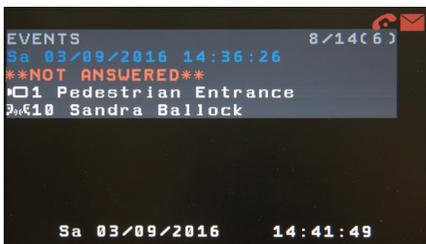
Call from speech unit to indoor unit 1, with switchboard in "Indoor" mode, not answered
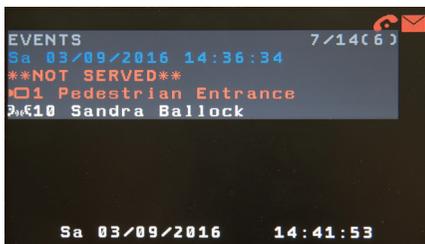
Call from speech unit to indoor unit 1, with switchboard in "Indoor" mode, rejected
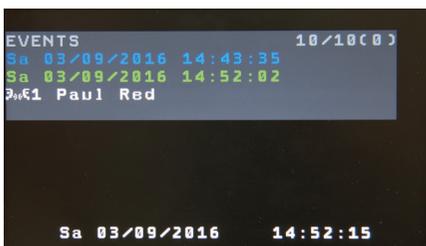
Call to switchboard from indoor unit, previously not answered and then served
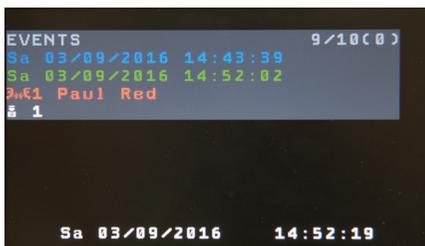
Call to switchboard from indoor unit, previously rejected and then served

Lock opening
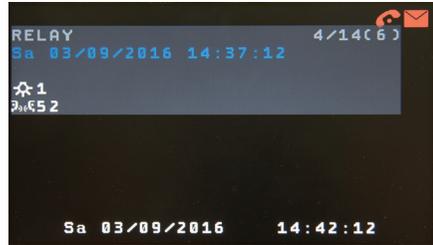
Relay activation
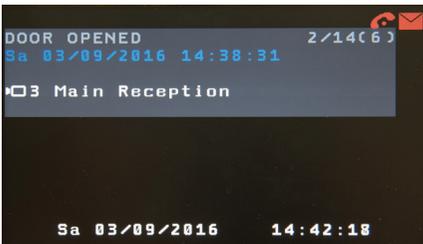
Door opened
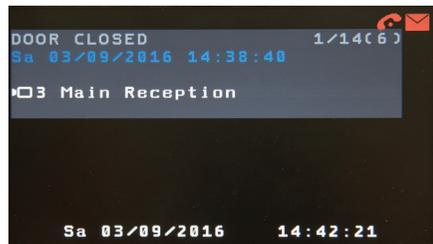
Door closed

Alert

Alerts are notifications that indoor units can send to the switchboards. These notifications can also be sent even if the Bus is occupied with a call in progress. When a switchboard receives an alert, it emits a warning tone and enters the new event in the list of Alerts.

When there is at least one event that is not served, the icon ✉ will flash at the top right of the screen.

To access the list of alert notifications, press ⚠ : the most recent event will be shown (indicated by the number 1). Use the keys ⌃ and ⌄ to scroll through the list, ordered from the most recent to the least recent event. To close the display, press the ✖ key or wait for the inactivity timeout to elapse.

Note: the maximum number of Alerts is 400, after which the least recent alert is deleted.
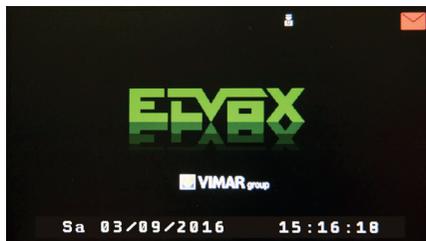
Alert notification
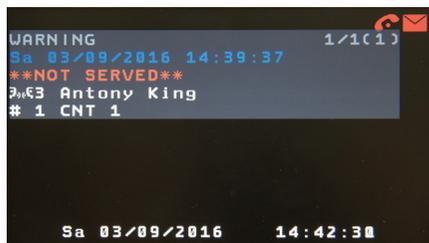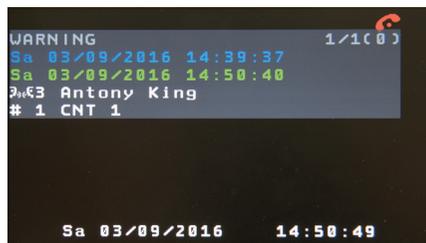
"Not served" alert   "Served" alert

The number to the right of the symbol # is the sub-address associated with the indoor unit (it could, for example, indicate the bathroom instead of the bedroom), whereas the number after CNT indicates the number of times the indoor unit has sent the request.

To serve the alert, the switchboard operator must open the list and call the indoor unit using the [icon] key or by lifting the handset.

Service of similar events (missed or rejected calls)

When a user is recalled, all the similar elements i.e. missed or rejected calls, that originate from the same indoor unit are marked as served. The user is recalled simply by pressing the [icon] key or by lifting the handset.

The event from which the call is made is marked as served directly. In this case, the date and time of the service are shown in light green.

The other events are marked as served indirectly. In this case, the date and time of the service are shown in dark green.

It is possible to mark an event (and all similar events) as served by holding pressed the key [icon] for 0.5 seconds. In this case, the selected event will also be marked as served indirectly.

Note: missed or rejected calls are marked as served indirectly even if the call comes from outside the events list.

Events list filter

The information shown in the events list can be filtered. When the list is first opened, no filters are applied. Press [icon] to cycle between the three possible displays, which are indicated by the icon at the top left, above the events list:

- No icon means no filter.
- [icon] for filter active (see below for details on what is displayed and what is not).
- [icon] for filter active and limited to events not served (see below for details on what is displayed and what is not).

In the second and third case, additional information may be added to further restrict the criteria for the type of events displayed. If no further information is added, the filter shows all events, as if no filter were applied.

After the icon there may be a number that represents the ID of an indoor unit or a switchboard. This will be the only device for which events are displayed. To enter this number, hold pressed [icon] for 0.5 seconds, then enter the device ID. After typing in the ID, press contacts list [icon] again to confirm.

Note: non-extended switchboards have IDs in the range 201 to 204. Extended switchboards range from 40001 to 40128 for vertical systems and from 40129 to 40144 for horizontal systems.

They will be shown on the first line of the display, to the right of the filter icon and the ID (if present), in the order indicated in

the following table, regardless of the order in which they were activated. Each filter present indicates <u>show also</u> the relative event. Note that <u>no filter</u> is managed as <u>show all</u>. Each press of the key causes the relative icon to appear or disappear.

KEY	ICON	MEANING
1 △		Missed calls
2 ABC		Denied calls
3 DEF		Door open / closed
4 GHI		Lock
5 JKL	F1	F1
6 MNO	F2	F2
7 PQRS		Relay

Use the keys ⌃ and ⌄ to scroll through only those events that meet the filter criteria.

Note. The line P / T / (N) continues to always show the same values.

If a filter does not return any events, the indication LIST EMPTY is displayed.

Appendix
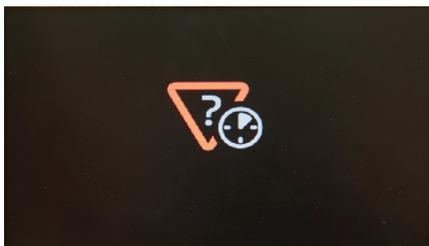
Error/Re-try Notification

The "Error/Re-try Notification" screen is displayed in the following cases:

- The ID cannot be assigned
- An attempt is made to call an indoor unit from keyboard, list, events, alert
- On answering an incoming call, no connection message is received from the other indoor unit, switchboard or speech unit.
- When making an outgoing call from an indoor unit or switchboard, no call confirmation is received.
- During self-start or when calling an indoor unit or switchboard, the explicit 'engaged' message is received.
- No reply is received to a self-start request.

ELVOX

VIMAR group

Installation diagrams

Minimum conductor cross-section (mm^2)	
Lock	1.5 mm^2
Other specifications: -, +U, +I (β)	1 mm^2

(β) the additional power supply unit 6923 must be installed as close as possible to the device to which it is to be connected.

**
Important:
Strictly observe the connections on the connecting stud.
Inverted wiring connections may lead to the switchboard being damaged.

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* BUS TERMINATION FOR DUE FILI PLUS INSTALLATIONS

This note applies to all devices equipped with "BUS termination connector or dip-switch", which is identified by the screen-printed letters "ABC" and marked on the wiring diagrams with *.
For correct adaptation of the line, make the setting according to the following rule:
- Maintain position "A" if the BUS enters and exits from the device;
- Move to position "B" (if Elvox cable) or to position "C" (if CAT5 twisted pair cable) if the BUS line terminates in the device itself.

A   B   C

A   A   A
B   B   B
C   C   C
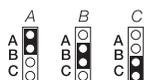
"A" = No termination
"B" = 100 Ohm termination
"C" = 50 Ohm termination

Installations with passive distributor 692D.
ALWAYS use output 1 of distributor 692D (the only output that does not have a termination jumper).
For termination of the distributor 692D:
- If the "OUT" outputs "2", "3" or "4" are not to be used, MAINTAIN the jumper on the connector "TOUT", "T2", "T3" or "T4".
The default "TOUT" connector is in the "100" position (Elvox cable), position it at "50" only if using a CAT5 twisted pair cable.

Installations with active distributor 692D/2
The termination jumper must be positioned on "B" (for Elvox cable) or on "C" (for CAT5 twisted pair cable) IF AND ONLY IF the BUS terminates at the device itself. It must be left on "A" if effecting entry-exit using terminals 1-2 on 692D/2.

Video door entry system in apartment block with multiple external entrance panels, porter switchboard and floor distributor
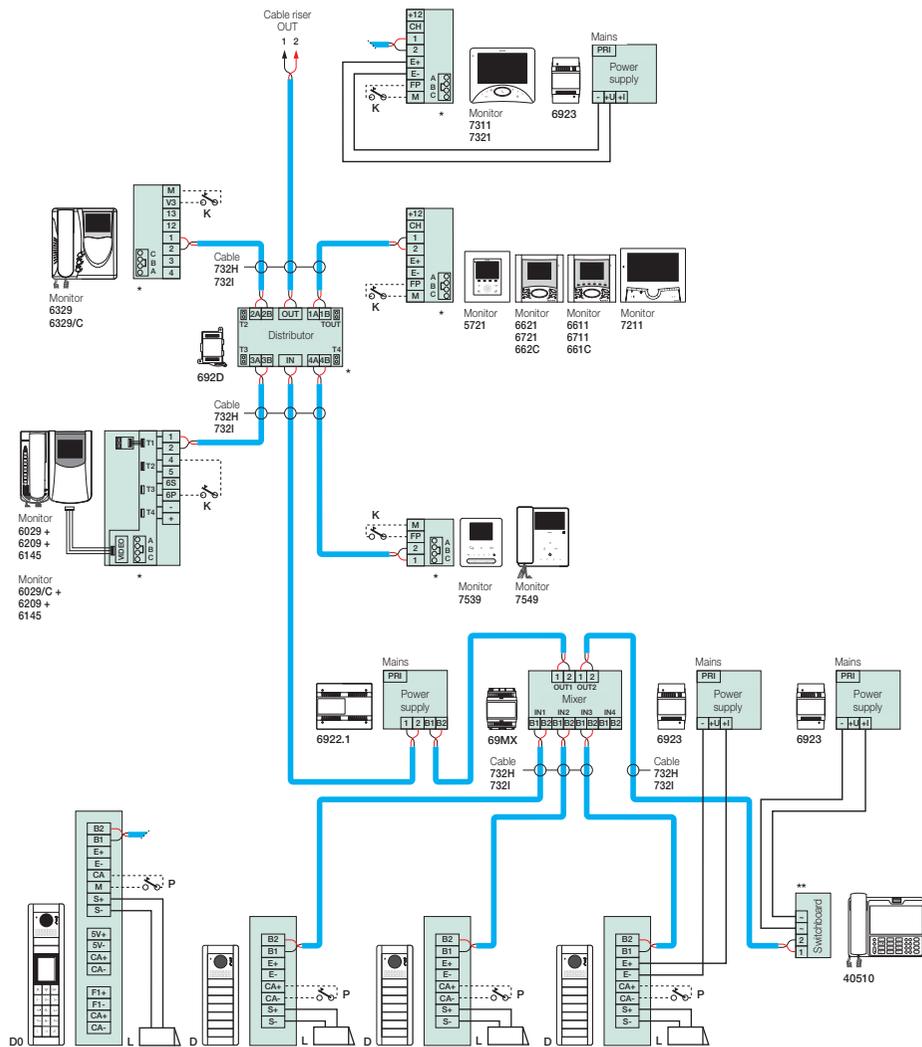
D - Pixel series button video door entry panel
D0 - Pixel series alphanumeric video door entry panel
K - Door call button
L - 12 V Electric lock
P - Door release control

SC_02_DF_015

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Video door entry system in building complex with 4 porter switchboards
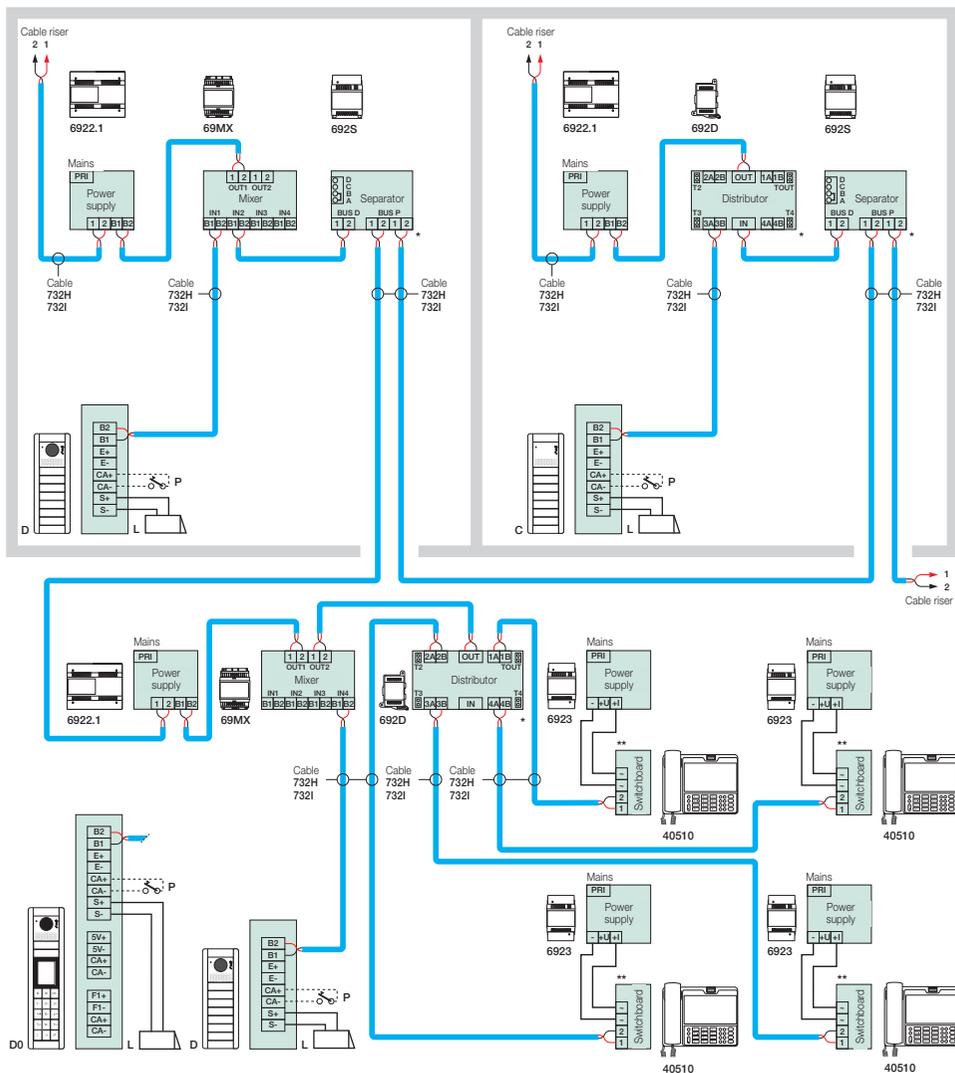
C - Pixel series button audio door entry panel
D - Pixel series button video door entry panel
D0 - Pixel series alphanumeric video door entry panel
L - 12 V Electric lock
P - Door release control

SC_02_DF_028