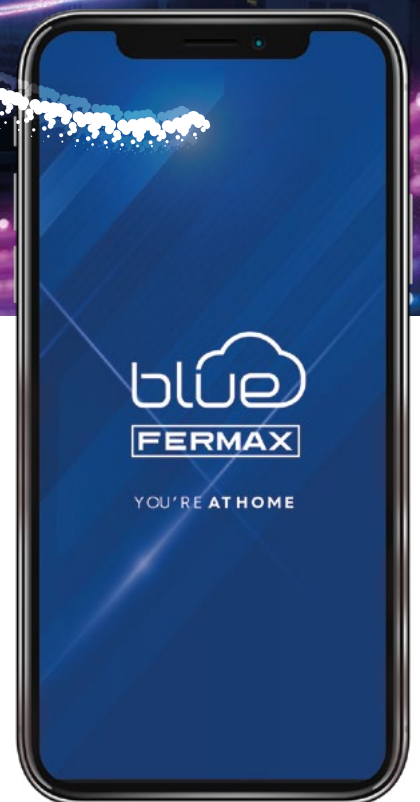# DUOX plus
by FERMAX

More **powerful**

blue FERMAX

YOU'RE **AT HOME**

THE ONLY **FULLY DIGITAL**
DOOR ENTRY SYSTEM **IN 2 WIRES**

DUOX plus

More powerful

FERMAX

The new advanced DUOX system offers much more

Higher performance and increased capacity, faster and more user-friendly,
But above all, it brings us to a new technological dimension destined
to define the future of video door systems

DUOX PLUS brings the **MOST POWERFUL**
2-wire digital system to your home.

2 wires

A fully digital door entry system that works with 2 non-polarised wires from start to finish in the installation.

scalable

Up to 10 panels and 10 guard units at the general entrances.
Up to 10 panels and 10 guard units in each building or block of apartments.
Up to 100 blocks and sub-blocks.

user-friendly

Since the system is entirely digital, the type of wiring has much less of an effect on the quality and performance of the system.
Furthermore, very few intermediary elements are required, which saves considerable time in the installation.

intuitive

The DUOX PLUS monitors can be programmed in just a few seconds, directly from the OSD menu.

no limits

DUOX is designed to work with all kinds of projects; large or small, simple or complex, vertical structures or horizontal installations.

product range

A broad variety of outdoor panels and indoor terminals with an exclusive design and advanced functions, without any increase in price.

connectivity for everyone

With DUOX PLUS, Fermax can introduce any kind of building or home to the world of connectivity, incorporating mobile call divert into even the most basic monitors.

+ capacity

- LONGER DISTANCES
- INCREASED VOLTAGE, LESS CONSUMPTION
- GREATER NUMBER OF TERMINALS PER POWER SUPPLY

DUOX PLUS allows you to push the boundaries of digital technology. Thanks to the digitalisation of the system, it can now be used in all kinds of installations. The more complex the installation, the more powerful DUOX PLUS will be.

+ flexibility

- MORE APARTMENTS PER FLOOR
- BETTER SERVICE WITH ANY CABLE
- SIMPLER INSTALLATION

Can be easily replaced, with no need to change the installed wiring. Considerable time saving during installation and maintenance.

+ technology

- MORE DIGITISED
- 2 SIMULTANEOUS AUDIO/VIDEO COMMUNICATION CHANNELS IN THE SAME RISER
- MORE RESOLUTION AND FLUIDITY ON VIDEO QUALITY
- AUDIO QUALITY ENTIRELY FREE OF INTERFERENCE

. Designed to handle external interference.

. Consistent quality throughout the installation.

. The regenerators boost the signal.

. Capable of communicating over long distances.
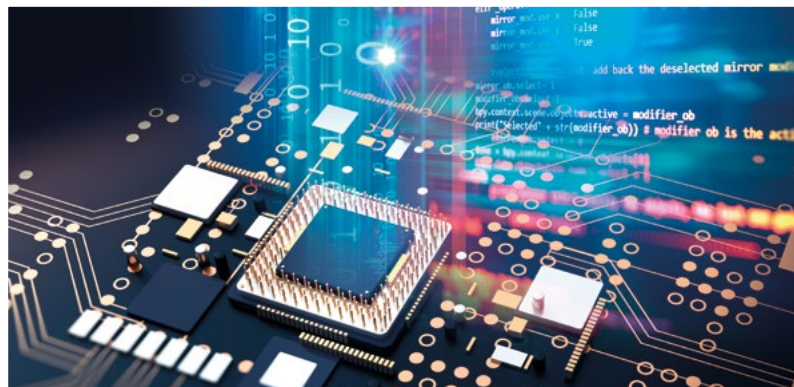
+ functions

- **ONE SINGLE CONNECTOR FOR ALL THE MONITORS**
- **NEW VEO TELEPHONE**
- **BETTER VISUAL ANGLE ON THE OUTDOOR PANEL**

DUOX PLUS is a system designed for everyone. Not just for its intuitive and attractive design, but also because it provides more advantages and functions for both the installer and the end user, at no additional cost.
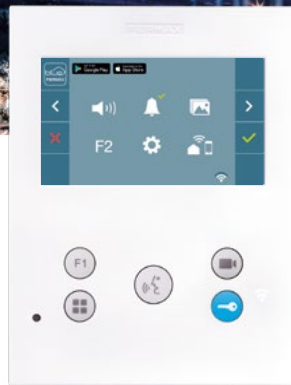
+ connectivity

- **ALL VIDEO KITS COME WITH A WiFi MONITOR AS STANDARD**
- **INCREASED SECURITY**
- **FASTER COMMUNICATION**

Our systems provide a wide range of different possibilities for security, mobility and comfort, inside and outside the home.

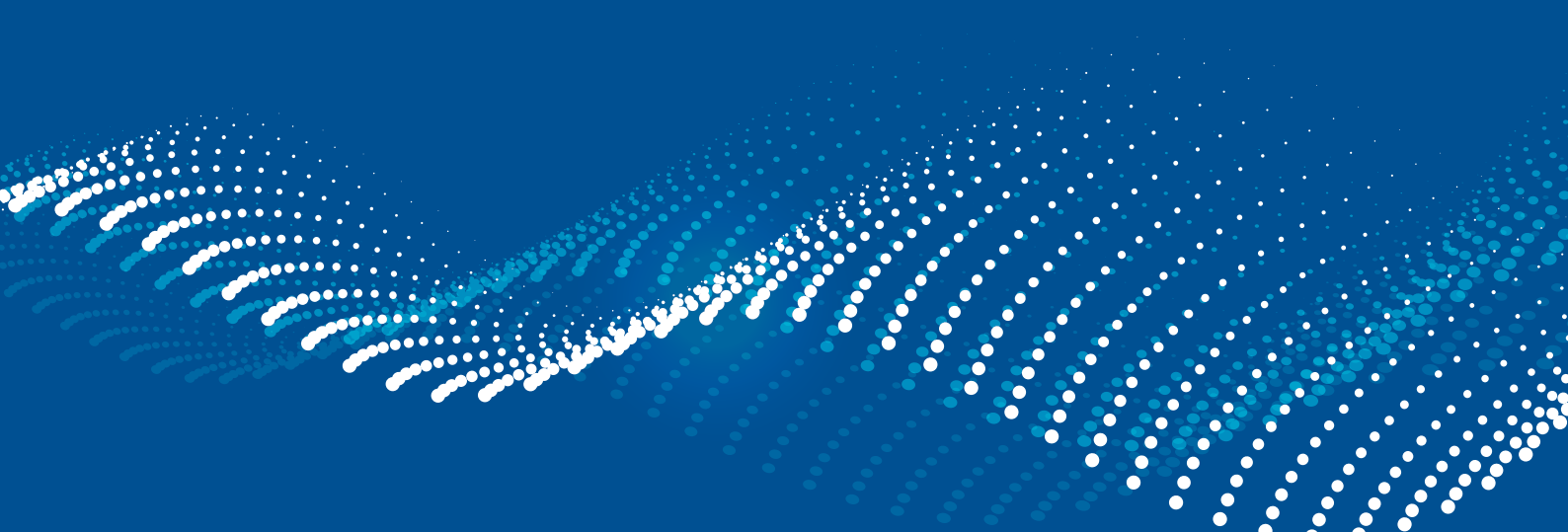**All video kits now include a WiFi monitor as standard, at no extra cost!**
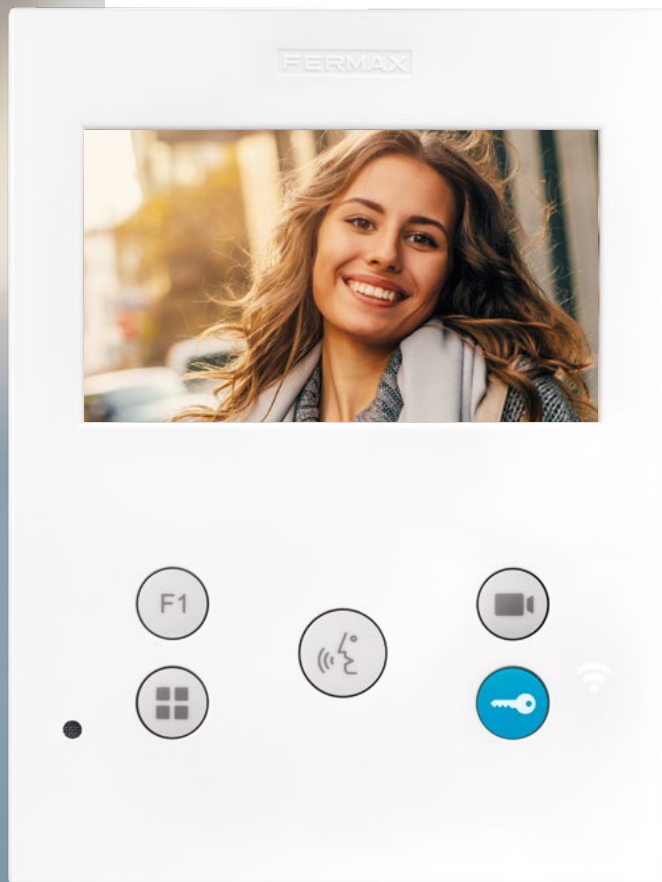
CONNECTIVITY FOR ALL

DUOX plus

DUOXplus

FERMAX

product range

WiFi monitors
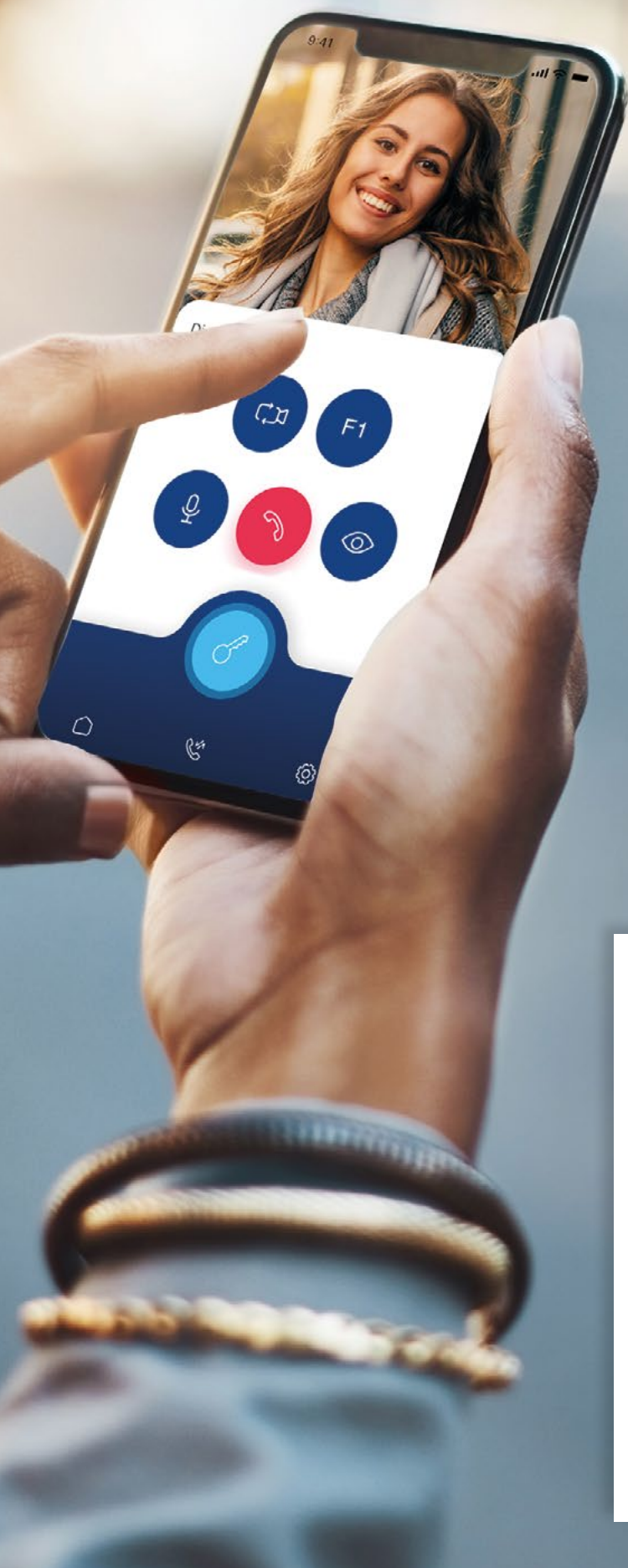
VEO XS

VEO AND VEO-XS WiFi MONITORS

9446   DUOX PLUS VEO WiFi MONITOR
9456   DUOX PLUS VEO WiFi MONITOR WITH INDUCTIVE LOOP
Dimensions: 200x200x23 mm (44 mm with handset).

9449   DUOX PLUS VEO-XS WiFi MONITOR
9459   DUOX PLUS VEO-XS WiFi MONITOR WITH INDUCTIVE LOOP
Hands-free. Dimensions: 125x165x21mm.

9447
DUOX PLUS CONNECTOR

Mounting support for VEO
and VEO-XS monitors.

Features of WiFi monitors

4.3" colour monitors (16:9), made from high-impact ABS plastic and UV protection, with settings for contrast, brightness, colour, audio volume, call ring tone volume, do not disturb function, door bell, date and time, silicone buttons for activating the lock release that are pleasant to the touch, access to the main OSD menu from the screen, activation of the outdoor panel camera, and various other additional configurable functions such as activating second access, courtesy light, etc. Available in white and for surface installation.

Two WiFi monitor options: the VEO monitor that incorporates a magnet to ensure that the handset is hung up properly at the end of the conversation, and the VEO-XS hands-free monitor.

Photocaller

Automatically captures an image of the person who calls. If the user decides to activate this function, the monitor will save up to 150 images, with the date and time when they were taken. Once maximum capacity has been reached, taking a new photo will delete the first one that was saved. The screen will always tell you if there are photos that you haven't seen or if the date/time has not been configured.

Call divert to mobile

The DUOX PLUS VEO and VEO-XS WiFi monitors are equipped with a WiFi connection, allowing for calls to be diverted to mobile devices.

With the BLUE app from FERMAX you can manage all the video door functions and much more directly from your mobile phone or tablet.

GET IT ON Google Play   Download on the App Store   **Free App**

Tablet/Mobile

VEO

<< If you'd like to watch our video to find out more, scan this code
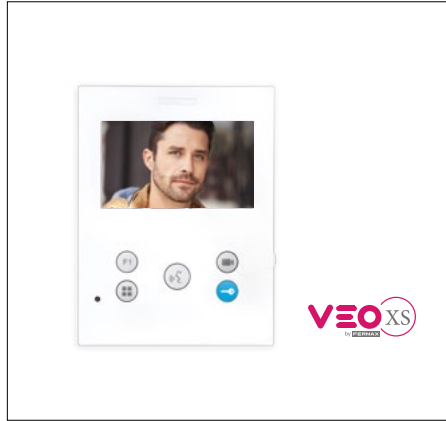
monitors and telephones

VEO AND VEO-XS MONITORS

9445 DUOX PLUS VEO MONITOR
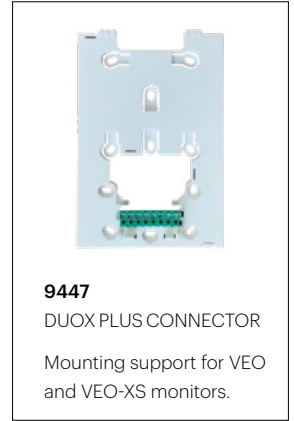**9455** DUOX PLUS VEO MONITOR WITH INDUCTIVE LOOP

Dimensions: 200x200x23 mm (44 mm with handset).

9448 DUOX PLUS VEO-XS MONITOR
9458 DUOX PLUS VEO-XS MONITOR WITH INDUCTIVE LOOP

Hands-free. Dimensions: 125x165x21 mm.

9447
DUOX PLUS CONNECTOR

Mounting support for VEO and VEO-XS monitors.

VEO, LOFT AND iLOFT TELEPHONES

NEW

3444 DUOX PLUS VEO TELEPHONE
Includes volume control.
Dimensions: 82x214x43 mm.

3451 DUOX PLUS LOFT BASIC TELEPHONE
Includes volume control.

3452 DUOX PLUS LOFT EXTRA TELEPHONE
Includes 2 buttons for extra functions:
turn on lights, open 2nd door, etc.

Dimensions: 85x220x40 mm.

3450 iLOFT DUOX PLUS TELEPHONE
Hands-free. Includes volume control and a button for additional function.
Dimensions: 90x146.5x20 mm.

AUDIO GUARD UNIT

9423 DUOX PLUS AUDIO GUARD UNIT
DUOX PLUS Audio Guard Unit has a multi-functional 4,3" capacitive touchscreen and quick function access buttons for easy convenient management. Its unique handset design incorporating a magnet enables the user to put it back into position correctly. It includes a stainless steel desktop support. It allows a surface installation.

Dimensions: 200x200 mm. Support included.

Dimensions: (width) x (height) x (depth) mm.
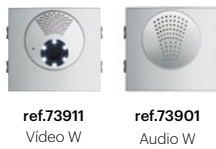
outdoor panels

DUOX plus

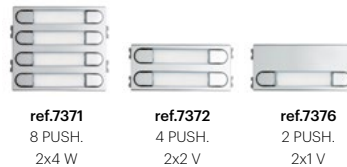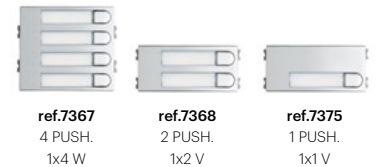## SKYLINE   Modular design. Anodised aluminium. IP43 IK07

FRAMES

ref.7341	**ref.7332**	**ref.7333**	**ref.7334**	**ref.7335**	**ref.7336**	**ref.7337**	**ref.7338**
1V Series 1	2V Series 2	3V Series 4	4V Series 5	5V Series 6	6V Series 7	7V Series 8	8V Series 9
130x128	130x151	130x199	130x246	130x294	130x341	130x389	130x436.5

VIDEO / AUDIO

VIDEO	AUDIO
ref.73911	**ref.73901**
Vídeo W	Audio W

DOUBLE PUSH BUTTONS

ref.7371	**ref.7372**	**ref.7376**
8 PUSH.	4 PUSH.	2 PUSH.
2x4 W	2x2 V	2x1 V

SIMPLE PUSH BUTTONS

ref.7367	**ref.7368**	**ref.7375**
4 PUSH.	2 PUSH.	1 PUSH.
1x4 W	1x2 V	1x1 V

INFORMATION MODULES

ref.7445	**ref.7444**	**ref.7448**	**ref.7452**
Panoramic cardholder W	Panoramic cardholder V	OneToOne V	OneToOne V w/inductive loop

ACCESS CONTROL

ref.7438	**ref.6936**	**ref.7440**
Memokey keypad W	Fingerprint reader W	Proximity reader V

DIGITAL MODULES

ref.7439	**ref.7450** +	**ref.7457**
Direct keypad W	Graphic display W	Digital keypad W

ACCESSORIES

ref.7443	**ref.7442**
Metallic complement W	Metallic complement V

ACCESSORIES	S1 (1V)	S2 (2V)	S4 (3V)	S5 (4V)	S6 (5V)	S7 (6V)	S8 (7V)	S9 (8V)
flush box	ref.8851 115x114x45	ref.8852 115x138x45	ref.8854 115x185x45	ref.8855 115x233x45	ref.8856 115x280x45	ref.8857 115x328x45	ref.8858 115x375x45	ref.8982 115x420.5x45
surface box	ref.7061 130x128x33	ref.7062 130x151x33	ref.7064 130x199x33	ref.7065 130x246x33	ref.7066 130x294x33	ref.7067 130x341x33	ref.7068 130x389x33	ref.7069 130x436.5x33
simple hood	ref.8400 135x130	ref.8401 135x155	ref.8403 135x203	ref.8404 135x250	ref.8405 135x300	ref.8406 135x345	ref.8407 135x393	ref.8480 135x440.5
modular decor. frame*	ref.9191 211x210	ref.9192 211x234	ref.9194 211x281	ref.9195 211x329	ref.9196 211x376	ref.9197 211x424	ref.9198 211x471	ref.9199 211x519
simple city decorative frame	ref.8251 225x310	ref.8252 225x310	ref.8254 225x375	ref.8255 225x375	ref.8256 225x450	ref.8257 225x450	ref.8258 225x450	ref.8259 225x495
angular complement	ref.8378	ref.8379	ref.8381	ref.8382	ref.8383	ref.8384	ref.8385	ref.8386

If the configuration requires more than one panel, they will need to be connected together with a connection cable (ref. 2541) (1 cable for each additional panel) and a set of joining bolts (ref. 8829) to attach them to unite the flush boxes.

* To make DOUBLE modular frames, add to the SINGLE frame a DOUBLE PANEL MODULAR FRAME KIT (ref. 9200). Horizontal: 341 mm.
* To make TRIPLE modular frames, add to the SINGLE frame a TRIPLE PANEL MODULAR FRAME KIT (ref. 9201). Horizontal: 471 mm.

outdoor panels

CITYLINE Monoblock design panel. Anodised aluminium. IP43 IK07

DIGITAL CITYLINE

One-To-One

Personalised images

ref.73871   ref.7310

The DIGITAL panels include a keypad and a 3.5" EXTRA display. The keypad has an access control function (10,000 codes).

73871   DUOX PLUS DIGITAL CITY VIDEO PANEL

73851   DUOX PLUS DIGITAL CITY AUDIO PANEL
Dimensions: 130x341 (S7)

7310   DIRECTORY PANEL S7. Dimensions: 130x341 (S7)

8857   FLUSH BOX S7. Dimensions: 115x328x45 (S7)

8829   JOINING BOLTS SET

73811   DUOX PLUS DIGITAL CITY VIDEO PANEL W/PROX
Dimensions: 130x389 (S8)

8858   FLUSH BOX S8. Dimensions: 115x375x45 (S8)

DIRECT CITYLINE

ref.73631   ref.7309

The DIRECT panels have a keypad for calling homes. The keypad allows 1 code for opening the door. We recommend adding a DIRECTORY PANEL.

73631   DUOX PLUS DIRECT CITY VIDEO PANEL

73611   DUOX PLUS DIRECT CITY AUDIO PANEL
Dimensions: 130x246 (S5)

7309   DIRECTORY PANEL S5
Dimensions: 130x246 (S5)

8855   FLUSH BOX S5
Dimensions:115x233x45 (S5)

8829   JOINING BOLTS SET

PUSH-BUTTONS CITYLINE

SERIES 1 // Panel: 130x128
Flush box (ref.8851): 115x114x45

ref.40708	ref.40008	ref.40704	ref.40004
1 PUSH.	2 PUSH.	1 PUSH.	2 PUSH.

SERIES 2 // Panel: 130x151
Flush box (ref.8852): 115x138x45

ref.40718	ref.40018	ref.40714
2 PUSH.	4 PUSH.	2 PUSH.

SERIES 3 // Panel: 130x175
Flush box (ref.8853): 115x162x45

ref.40728	ref.40724
3 PUSH.	3 PUSH.

SERIES 4 // Panel: 130x199
Flush box (ref.8854): 115x185x45

ref.40748	ref.40744
4 PUSH.	4 PUSH.

Dimensions: (width) x (height) x (depth) mm.

MARINE
Stainless steel vandal-proof panel. 316L. IP54 IK09
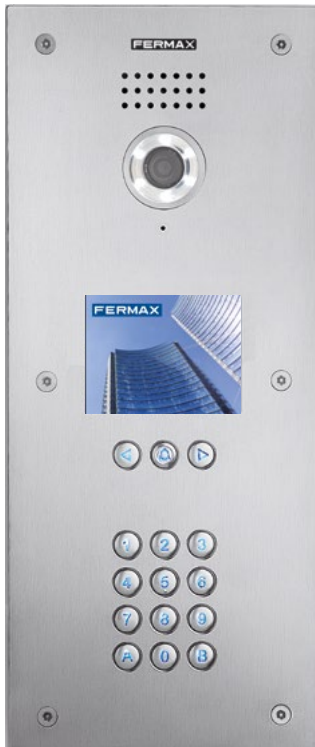
55261	DUOX PLUS DIGITAL EXTRA VIDEO MARINE PANEL ST3
5471	DIRECTORY PANEL ST3
	Dimensions: 150x360mm
55281	DUOX PLUS DIGITAL MARINE VIDEO PANEL W/PROX ST4
	Dimensions: 150x485mm

The MARINE outdoor panels with push buttons (except 1 and 2 ways VIDEO panels), always require a call extension module, depending on the number of push buttons. (ref. 2008 - 8 call extension module, ref. 2441 - 16 call extension module).

ref.44338
1 PUSH.
150x180

ref.44348
2 PUSH.
150x180

ref.44358
2 PUSH.
150x240

ref.44368
3 PUSH.
150x240

ref.44378
4 PUSH.
150x240

ACCESSORIES	FLUSH BOX		SURFACE BOX (with hood)		SIMPLE HOOD
ST1	**ref.4641**	130x160x55	**ref.4645**	154x184x96	**ref.4701**
ST2	**ref.4642**	130x220x55	**ref.4646**	154x244x96	**ref.4702**
ST3	**ref.4643**	130x340x55	**ref.4647**	154x364x96	**ref.4703**
ST4	**ref.4643**	130x465x55	**ref.4647**	154x489x96	**ref.4704**

MARINE ELITE

FERMAX has a laser-cut machining line for stainless steel panels. This process allows us to offer complete flexibility when it comes to producing the required Marine panel, with optimal delivery time for personalisation.

RAL 3020   RAL 5005   RAL 9018

Check for availability of other colours.

The Marine Elite line of panels is available in a variety of different colours, just give us the RAL that you want when ordering your panel.

MARINE SPECIAL (made to measure)

3172	MARINE SPECIAL PANEL
4579	MARINE SPECIAL PANEL HOOD
4580	MARINE SPECIAL PANEL FLUSH BOX
4581	MARINE SPECIAL PANEL SURFACE BOX WITH HOOD

C/ GOYA, 150

POWER SUPPLY AND ADAPTORS

3255

DUOX PLUS LINE ADAPTOR

Necessary at the beginning and the end of every riser.

4825

POWER SUPPLY + FILTER 24Vdc-2.5A DIN10

4840

POWER SUPPLY DIN-6 100-240Vac/24Vdc-2A

Necessary for the 2 WAY DUOX PLUS Regenerator ref. 3269.

3289

DUOX PLUS FILTER 24Vdc

To be used with the PSU ref. 4840, in those installations where the PSU ref. 4825 cannot be used due to its dimensions.
Cannot be used with 18Vdc power supplies, which must be installed with filter ref. 3244.

4802

POWER SUPPLY 12Vac/1A DIN4

4800

POWER SUPPLY 12Vac/1,5A DIN4

For altern current lock release.

Terminal consumption table per power supply in DISTRIBUTION.

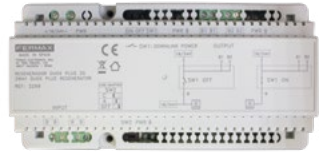|	NON-WIFI monitor	WiFi monitor	Telephones
1.0 mm^2	40	28	80
0.5 mm^2	40	24	80
0.2 mm^2	36	20	72

Terminal consumption table per power supply in CASCADE.

	NON-WIFI monitor	WiFi monitor
1.0 mm^2	40	26
0.5 mm^2	32	20
0.2 mm^2	18	12

REGENERATORS

They allow the signal to be regenerated and amplified in both ways, and they also increase distances and the number of terminals. The sections connected to the input and output protect against short-circuit, overloads and signal reflections. Maximum of 5 units in cascade. Up to 99 if they are connected in parallel.

3269   2/W DUOX PLUS REGENERATOR

It has 1 input and 2 outputs. By having 2 outputs (also isolated from each other) it enables the number of risers to be increased. Requires 24Vdc power supply without filter (ref. 4840).
For more information: www.fermax.com/intl/en/pro/documents

3268   1/W DUOX PLUS DUAL REGENERATOR

It has 1 input and 1 output. It lets pass both the data (which regenerates) and the power supply, thus avoiding having to always install a power supply at the output. The number of devices that can be fed at the output without an additional power supply units will depend on the power that reaches the regenerator. For more information: www.fermax.com/intl/en/pro/documents

	No. of inputs	No. of outputs	Regenerates	Isolates	Incorporates power supply filter	Additional conversation channel per riser
3269	1	2	YES	YES	YES	NO
3268	1	1	YES	YES	NO	YES (in multichannel mode)

ACCESSORIES

3267

DUOX PLUS RELAY MODULE

For additional F1 and F2 functions (doormatic function for professionals, 2nd door, lighting, etc.).

9443

DUOX PLUS LIFT CONTROL UNIT

It is used to provide a lift control service for the DUOX PLUS installation. This allows visitors to access only the floor corresponding to the flat that has opened the door for them. It is an interface between DUOX PLUS and MDS. The MDS Central Unit is responsible for the lift control function, as well as the MDS relay decoders.

9444

DUOX PLUS CAMERA INTERFACE

The DUOX PLUS camera interface is a device that allows you to integrate CCTV analog composite video cameras in a DUOX PLUS installation. An interface is required for each camera installed in a DUOX PLUS installation (up to 2 per block and 1 general entrance).

67501

UNIVERSAL LOCK RELEASE 990N-P22 MAX 10-24Vac/dc

6750

UNIVERSAL MECHANISM 990N MAX 10-24Vac/dc

6752

UNIVERSAL MECHANISM 990A MAX 12-24Vac/dc

2040	CALL EXTENSION MODULE	**2438**	LIGHT/DOOR BELL ACTIVATOR

kits

DUOXplus

VIDEO DOOR KITS

WIFI MONITOR AS STANDARD

94411	1/W DUOX PLUS VEO WiFi KIT
94421	2/W DUOX PLUS VEO WiFi KIT

94511	1/W DUOX PLUS VEO-XS WiFi KIT
94521	2/W DUOX PLUS VEO-XS WiFi KIT

50731	1/W DUOX PLUS VEO-XS WiFi MARINE KIT

49081	1/W DUOX PLUS VEO WiFi ONE-TO-ONE KIT

49071	1/W DUOX PLUS VEO WiFi MEMOVISION KIT

49121	1/W DUOX PLUS VEO-XS WiFi MEMOVISION KIT

AUDIO KITS

NEW VEO TELEFONE

49201	1/W DUOX PLUS AUDIO CITY VEO KIT
49211	2/W DUOX PLUS AUDIO CITY VEO KIT

49131	1/W DUOX PLUS AUDIO MEMOPHONE CITY VEO KIT

50771	1/W DUOX PLUS AUDIO CITY iLOFT KIT

INSTALLATION DIAGRAMS
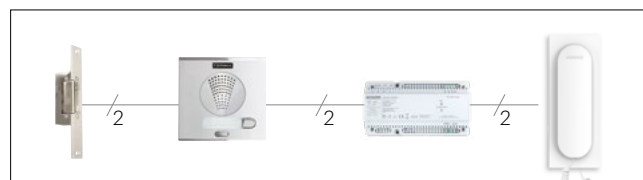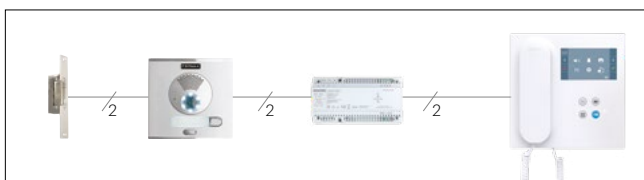
ACCESSORIES

VEO AND VEO-XS MONITORS

3388	UNIVERSAL DECORATIVE FRAME 120X240
3389	UNIVERSAL LARGE DECORATIVE FRAME 210X240
9410	VEO MONITOR DESKTOP SUPPORT
9420	VEO-XS MONITOR DESKTOP SUPPORT

iLOFT TELEPHONE

3388	UNIVERSAL DECORATIVE FRAME 120X240
3389	UNIVERSAL LARGE DECORATIVE FRAME 210X240
5636	iLOFT TELEPHONE DESKTOP SUPPORT

VEO AND LOFT TELEPHONES

3380	LOFT TELEPHONE DECORATIVE FRAME 120X240 200X240
3388	UNIVERSAL DECORATIVE FRAME 120X240
3389	UNIVERSAL LARGE DECORATIVE FRAME 210X240
3749	VEO / LOFT TELEPHONE DESKTOP SUPPORT
3441	LOFT HANDSET WITH INDUCTIVE LOOP
3443	VEO HANDSET WITH INDUCTIVE LOOP

CITYLINE AND MARINE PANELS

SEE OUTDOOR PANEL SECTION

DUOXplus

FERMAX

technical information

DIAGRAM. **DUOX PLUS VIDEO**

1 DUOX PLUS VIDEO ACCESS TO 2 RISERS AT WITH 4 LEVELS AND 2 MONITORS PER FLOOR

DISTANCE TABLE PANEL. 1st BIFURCATION W/O REGENERATORS

Topology	Distance	Monitors
1 riser	55 m	up to 8 monitors per floor
2 risers	50 m	up to 4 monitors per floor
3 risers	25 m	up to 4 monitors per floor
4 risers	25 m	only cascade

For more information about DUOX PLUS, you can download technical books from:
www.fermax.com/intl/en/pro/documents/

P1	DUOX PLUS SKYLINE outdoor panel 16/L.
F1	Electrical lock release 12Vca/cc (ref.67501).
A1	Power supply 12Vca (ref.4802).
A2	Power supply + filter 24VCC-2.5A DIN 10 (ref.4825).
Mn	VEO-XS monitor (ref.9448) + DUOX PLUS connector (ref.9447).
L1	Line adaptor (ref.3255)

PROJECTS TABLE. **WIFI DUOX PLUS**

DUOX PLUS VIDEO. SKYLINE PANEL. VEO AND VEO-XS WIFI MONITORS

No. HOMES	SERIES	FRAME 3V ref.7333	FLUSH BOX ref.8854	4V ref.7334	FLUSH BOX ref.8855	5V ref.7335	FLUSH BOX ref.8856	6V ref.7336	FLUSH BOX ref.8857	7V ref.7337	FLUSH BOX ref.8858	8V ref.7338	FLUSH BOX ref.8982	JOINING BOLTS ref.8829	CABLE ref.2541	VIDEO AMPLIF. MOD. ref.7391	201 ref.7376	202 ref.7372	204 ref.7371	V ref.7442	2V ref.7443	POWER SUPPLY ref.4825	LINE ADAPTOR ref.3255	VEO WiFi + CONNECTOR ref.9446 + ref.7447	VEO-XS WiFi + CONNECTOR ref.9449 + ref.9447
2	S4	1	1													1	1					1	2	2	2
4	S4	1	1													1		1				1	2	4	4
6	S5			1	1											1	1					1	2	6	6
8	S5			1	1											1	1		1			1	2	8	8
10	S6					1	1									1	1					1	2	10	10
12	S6					1	1									1		1	1			1	2	12	12
14	S7							1	1							1	1		1			1	2	14	14
16	S7							1	1							1			2			1	2	16	16
18	S8									1	1					1	1		2			1	2	18	18
20	S8									1	1					1		1	2			1	2	20	20
22	S9											1	1			1	1		2			1	2	22	22
24	S9											1	1			1			3			1	2	24	24
24	S5			2	2									1	1	1	1		3			1	2	24	24
26	S6					2	2							1	1	1		2	2	1		1	2	26	26
28	S6					2	2							1	1	1	1	1	3	1		1	2	28	28
30	S6					2	2							1	1	1	1		3			2	2	30	30
32	S6					2	2							1	1	1		2	3			2	2	32	32
32	S7							2	2					1	1	1	1		4		1	2	2	32	32
34	S7							2	2					1	1	1	1		4	1		2	2	34	34
36	S7							2	2					1	1	1	1	1	4	1		2	2	36	36
38	S7							2	2					1	1	1	1	1	4			2	2	38	38
40	S7							2	2					1	1	1			5			2	2	40	40

For installations that combine connected and unconnected monitors, in the consumption table a WiFi monitor is equivalent to 3 non-WiFi monitors.
This table has been configured based on the use of a multicore parallel 1 mm² wire and distribution across floors. For other scenarios, check the tables on page 14.

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CONNECTIVITY FOR ALL