

# SKYLINE

INFINITE POSSIBILITIES



**FERMAX**







SKYLINE is the new language from FERMAX.  
Surprisingly simple. And in practice, universal.

It is the only one able to respond to all the market needs.  
Integrating video door entry, access control and information  
displays in the same unit.

Providing total creative freedom through its versatility.

SKYLINE lets you set up any composition imaginable, thanks  
to its 30 different modules.





# COMBINES



Following aesthetic and technological criteria, it is possible to create up to 20 million SKYLINE. All with a unique design.



SKYLINE is a combination of only 30 different parts.

It consists of 8 frames of different dimensions that make up the desired modules. Choosing among the 22 options available SKYLINE will respond to the needs of each individual customer.

SKYLINE allows to create any video door entry system with access control and information displays.



SKYLINE allows the combination of all kinds of elements. Audio and video modules, single and double pushbutton modules, informative screen, biometric reader, Bluetooth, proximity reader and keypad, etc.





# INTEGRATES



SKYLINE includes access controls, either biometric (fingerprint) or mechanical: proximity reader, numeric keypad or via mobile telephones using Bluetooth technology.

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With SKYLINE **all the technologies converge** in a single solution and with the same look.

Because SKYLINE **integrates the different applications in modular form**: video door entry to communicate with indoors, access control readers to restrict entry and informative displays for all users.

SKYLINE's modular design leaves the door open for inclusion of future technologies, which can easily be integrated.

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It means the end of uniformity. Because SKYLINE enables each user in each sector and culture to receive **the most suitable response** to their needs and preferences.

# CHOOSE

It makes no difference if the requirements are simple or sophisticated, SKYLINE has all the answers.



SKYLINE's adaptability facilitates its use in any sector: residential areas, single family houses, offices and businesses, industry and companies.

The most usual video door entry systems have individual pushbuttons for homes or use digital buttons and informative displays.

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# INFORMS

The OneToOne informative screen makes the use of video door entry systems easier for people with hearing difficulties. Luminous indicators show the communication status: house calls, in conversation, open door or system busy.



Informative pictograms



Pushbuttons can include lettering in Braille.

The SKYLINE amplifier emits a safety message warning the visitor that the door is open. It is recorded in 32 languages.



SKYLINE provides the possibility to include very useful informative elements for the end user. From directory cardholders (recommended for offices and residential facilities) to the new informative screens. Promoting intuitive, user-friendly and universal application of the technology.



The cardholders and directories allow to display information and insert company logos and names. Technological modules such as the display or informative screen make access easy for all users.









# RESISTS



SKYLINE is a creation of the industrial designer Ramón Benedito, FERMAX collaborator since 1975.



In SKYLINE all the details are taken care of. The manufacturing materials - anodized aluminium, chromed zamak and polycarbonate, are selected for their beauty and maximum weather resistance. The clip-on assembly system of the modules is amazingly simple. The final result is a compact and robust equipment (IP43 IK07).

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## FERMAX

The pushbutton and keypad contacts are watertight. The pushbuttons have been tested in laboratory trials to be able to resist 100,000 pressings in 48 hours with total reliability.





# ENHANCES



Only SKYLINE's cutting-edge technology enables versatility without limits. Because **all the modules are compatible with each other** and connected by a smart system. The most complex module and with most features is the one integrating the audio electronics and camera. It manages the communication, door opening and sets the installation parameters.

In poor light conditions, the colour camera lights up for better viewing. The keypad and cardholders are permanently illuminated with low consumption leds to facilitate its use in poor light conditions.

From the audio and video module it is possible to: adjust the volume, run the operating test, program monitors, select the safety alert language or indicate the door opening timings.

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# CREATE

**Start to imagine** now and discover all the possibilities SKYLINE offers.

Because a single project can be resolved in multiple ways, depending on the needs of the end user and their lifestyle preferences.

To make the most of SKYLINE's possibilities, we have created an intuitive tool: SKYLINER. With it **you can create your own designs**, save the image and draw up a complete list of materials with its budget.

Start working with SKY L I N E R now. It is available at [www.fermax.com](http://www.fermax.com) entering your user name and password.

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SKYLINER operation:

1 ) Choose your FERMAX video door entry technology: VDS, BUS2, MDS or 4+N.

2 ) Setting out from a blank template or from an existing configuration you can create the desired combination. Adding frames and dragging the modules with a simple application.

3 ) Once you have designed your SKYLINE :  
Option 1: Create an image (.jpg) to save on your PC.  
Option 2: Create a quotation with the resulting image and the corresponding list of modules. It is possible to add other elements and personalize it with the customer's name and other data.









# DISCOVER

The best known SKYLINE and all the technical details.





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digital video entry panel with display and keypad

digital video entry panel with display, keypad and proximity

digital video entry panel with display, keypad and fingerprint

digital video entry panel with display, keypad and decorative frame





office directory with access control system by keypad



proximity reader



bluetooth reader



keypad



fingerprint reader



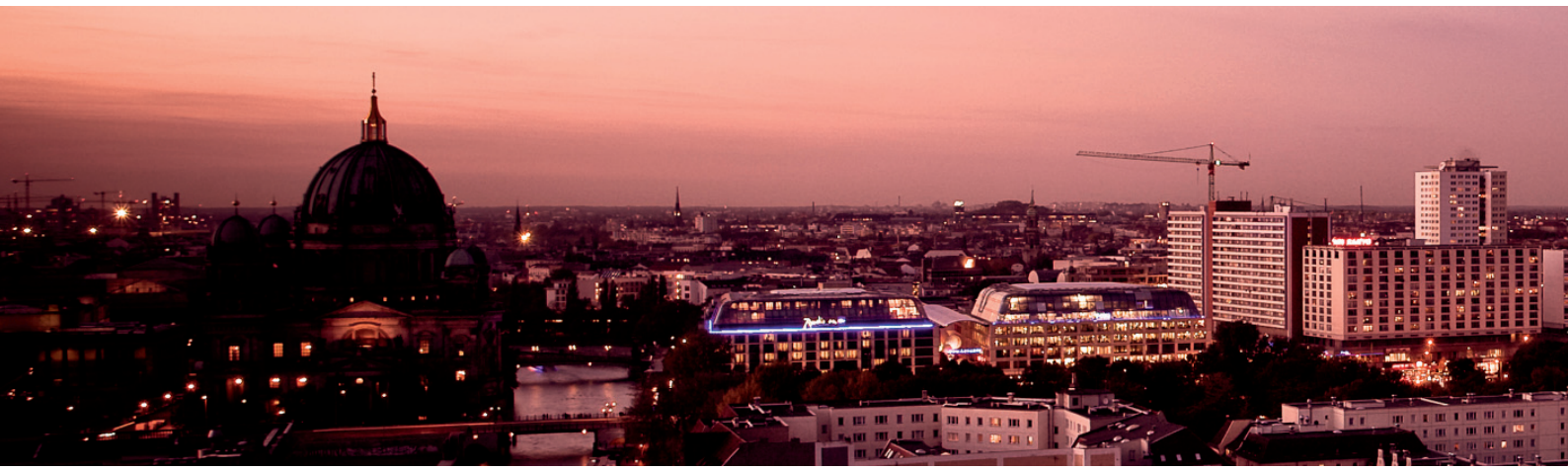
proximity and keypad combined for access control

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16 apartments video entry panel with double pushbuttons



16 apartments video entry panel with single pushbuttons



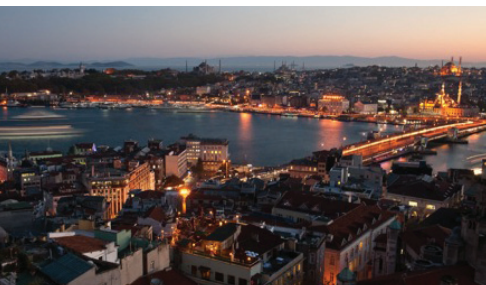
16 apartments video entry panel disability 



4 rises configuration (16 apartments)



16 apartments video entry panel with keypad for door opening







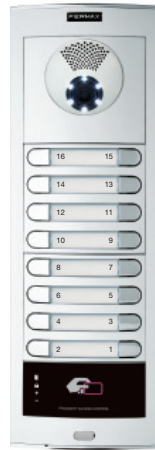
16 apartment video entry panel with cardholder



16 apartment video entry panel with informative screen and braille labelling



16 apartment video entry panel with office/porter's lodge call



16 apartment video entry panel with proximity reader



video door entry panel with direct keypad and directory

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## TECHNICAL FEATURES

Maximum outdoors resistance (IP43 IK07).  
Extruded and anodized aluminium panel.  
Chromed zamak pushbuttons.



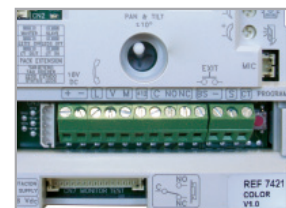
Audio-video compact module.  
Aluminium front and stainless steel interior frame.  
2W high power amplifier.



Call-communication volume and lock release time settings.  
Voice synthesis in 32 languages *“Door open, please close the door behind you”*.



CCD COLOUR camera with leds for night vision and PAN&TILT system.  
Operation test connector.



Waterproof pushbuttons.  
100.000 pressings guaranteed in 48h hours.  
Permanent led cardholders lighting.



Zamak backlit keyboard.  
Waterproof contacts.

Smart connection between modules.  
No call extension module needed.



Advanced monitor programming system (mapping).

## MODULE ASSEMBLY SEQUENCE







# PROJECT

CREATE YOUR DESIGNS WITH

**SKYLINER**  
BE CREATIVE





SKYLINE consists of 8 different-sized frames where different modules can easily be fitted. Modules come in 2 sizes. Designated V and W (W is twice the size of V). The audio and video modules are available in different technologies: (VDS, BUS2, MDS and 4+N). Once technology has been selected, the use of these modules with the appropriate frames, lets you set up the necessary panel for any building.



### AUDIO & VIDEO MODULES



**Video W**  
|VDS|BUS2|4+N  
ref.7421|7433|7406



**Audio W**  
|VDS|BUS2|4+N|4+N BASIC|  
ref.7415|7430|7400|7399

### SKYLINE FRAMES



**Frame 1V** | Series 1  
ref.7341 | 130x128



**Frame 2V** | Series 2  
ref.7332 | 130x151



**Frame 3V** | Series 4  
ref.7333 | 130x199



**Frame 4V** | Series 5  
ref.7334 | 130x246



**Frame 5V** | Series 6  
ref.7335 | 130x294



**Frame 6V** | Series 7  
ref.7336 | 130x341



**Frame 7V** | Series 8  
ref.7337 | 130x389



**Frame 8V** | Series 9  
ref.7338 | 130x436,5

### DOUBLE PUSHBUTTONS



**8 Push. 204 W**  
|VDS|BUS2|4+N  
ref.7371|7371|7369



**4 Push. 202 V**  
|VDS|BUS2|4+N  
ref.7372|7372|7370



**2 Push. 201 V**  
|VDS|BUS2|4+N  
ref.7376|7376|7374

### SINGLE PUSHBUTTONS



**4 Push. 104 W**  
|VDS|BUS2|4+N  
ref.7367|7367|7365



**2 Push. 102 V**  
|VDS|BUS2|4+N  
ref.7368|7368|7366



**1 Push. 101 V**  
|VDS|BUS2|4+N  
ref.7375|7375|7373

### DIGITAL MODULES



**Direct keypad W**  
|VDS|BUS2  
ref.7439



**Display W**  
|VDS|BUS2|MDS  
ref.7449|7451



**Digital keypad W**  
|VDS|BUS2|MDS  
ref.7447



**MDS Digitizer V**  
Ref. 7460

### INFORMATIVE MODULES



**Cardholder W**  
ref.7445



**Cardholder V**  
ref.7444



**OneToOne module V**  
ref.7448

### ACCESSORIES



**Metallic complement W**  
ref.7443



**Metallic complement V**  
ref.7442

### ACCESS CONTROL



**Fingerprint W**  
ref.6989



**Keypad W**  
|STAND ALONE|CAC  
ref.7438|7453



**Proximity W**  
ref.7440



**Bluetooth V**  
ref.7441

The **flush boxes** used are standard FERMAX metallic. They can be joined laterally within the same series by means of a joining bolt set (ref.8829).

- ref.8851. Flush box Series 1. 115x114x45
- ref.8852. Flush box Series 2. 115x138x45
- ref.8854. Flush box Series 4. 115x185x45
- ref.8855. Flush box Series 5. 115x233x45

- ref.8856. Flush box Series 6. 115x280x45
- ref.8857. Flush box Series 7. 115x328x45
- ref.8858. Flush box Series 8. 115x375x45
- ref.8982. Flush box Series 9. 115x420,5x45

If the configuration calls for more than one panel, a **connection cable** between them is needed (1 cable for each additional panel).

|VDS|BUS2|4+N  
ref.2541|2540

All measurements are expressed in millimetres. (W) x (H) x (D) = WIDTH x HEIGHT x DEPTH





# MODULES

## AUDIO AND VIDEO MODULES

Integrates audio (voice) and video (image) functions in a compact module. Self-regulating 2W amplifier. Built-in voice synthesis. Aluminium front and inner stainless steel grill. CCD high sensitivity colour camera. PAN&TILT lens. LED lighting for night vision.



## PUSHBUTTON MODULES

Waterproof pushbuttons (sealed contacts). Manufactured in injected zamak.

100,000 pressings guaranteed in 48 hours.

Weather and impact resistant. Cardholders permanently lit by low consumption LEDs. Frontal cardholder access.

### DOUBLE PUSHBUTTONS



### SINGLE PUSHBUTTONS



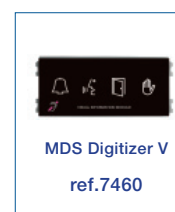
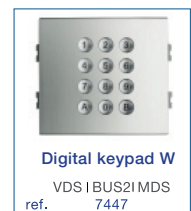
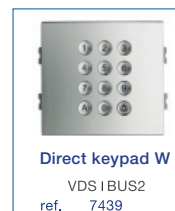
## DIGITAL MODULES

Apartment calls made by entering the door code via the digital keypad.

Allows to open the door directly by entering a code.

Backlit metallic keypad made in zamak. Sealed contacts. Weather resistant.

LCD Display shows the homes directory and their call codes.





# INFORMATIVE MODULES AND COMPLEMENTS

## INFORMATIVE SCREEN

Luminous signals inform about the video entry system operating status: house call, active communication, open door and busy channel. The corresponding graphic icons light up depending on the situation.



## CARDHOLDER

Card slot permanently illuminated by LEDs. To personalise the building, enter the address or as a door directory in digital panels.



## METALLIC MODULE

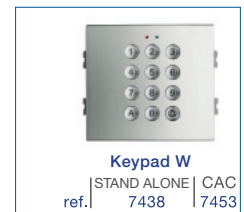
Made with the same material as the panel's anodised aluminium profile. Necessary to fill in gaps in some panel and module combinations. Allowing also to leave the panel ready to add a module later on.



# ACCESS CONTROL MODULES

## FINGERPRINT READER

Capacitive sensor. Maximum capacity 950 users. With built-in DISPLAY and signal LEDs.



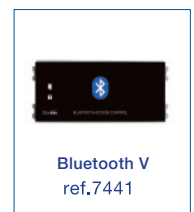
## MEMOKEY KEYPAD

Triggers the electric lock when a code up to 6 digits is entered.

Backlit metallic keypad with signal LEDs. (Up to 100 codes).

## PROXIMITY READER

Allows to open the door when an authorised proximity card is shown (up to 400 cards).



## BLUETOOTH READER

Allows to activate the door with a Bluetooth mobile phone. Up to 40 authorised telephones.

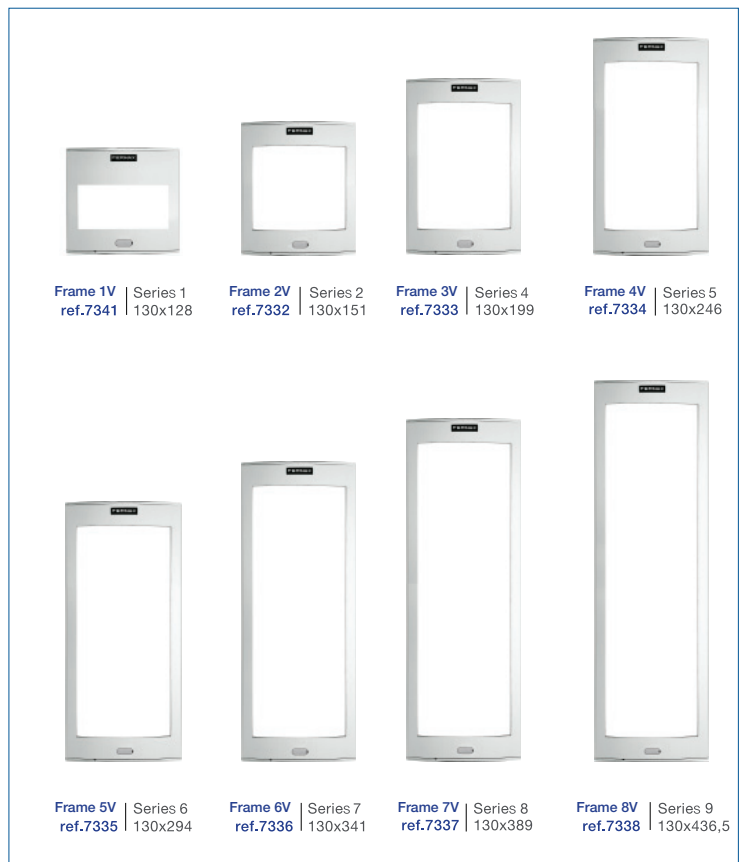


# FRAMES

Anodised aluminium profiles with anodised finish for outdoors.

Convex-curved profile. Injected zamak profile locks included. Upper logo and lower cover collapsible to conceal screw for fixing to flush-fit box.

High sensitivity microphone built into profile. Waterproof seals are included to avoid water to filter through the wall. Folding hinges.



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# ACCESSORIES

## FLUSH BOX

Made in aluminium and zamak, with folding hinges.

## JOINING BOLTS SET

To combine panels from the same series, separators must be used. They are installed between the flush fit boxes.






## CONEXION CABLE

If the configuration requires calls from more than one panel, a connection cable between them is needed (1 cable for each additional panel).





## ACCESSORIES

					
	FLUSH BOX	SURFACE BOX	DECORATIVE FRAME	HOOD	ANGULAR COMPLEMENT
<b>S1</b> (1V)	ref.8851 115(W)x114(H)x45(D)	ref.7061 130(W)x128(H)x33(D)	ref.9191 SINGLE* 201(W)x200(H)	ref.8400 SINGLE ref.8408 DOUBLE	ref.8378 SINGLE ref.8389 DOUBLE
<b>S2</b> (2V)	ref.8852 115(W)x138(H)x45(D)	ref.7062 130(W)x151(H)x33(D)	ref.9192* 201(W)x224(H)	ref.8401 SINGLE ref.8409 DOUBLE	ref.8379 SINGLE ref.8390 DOUBLE
<b>S4</b> (3V)	ref.8854 115(W)x185(H)x45(D)	ref.7064 130(W)x199(H)x33(D)	ref.9194 SINGLE* 201(W)x271(H)	ref.8403 SINGLE ref.8411 DOUBLE	ref.8381 SINGLE ref.8392 DOUBLE
<b>S5</b> (4V)	ref.8855 115(W)x233(H)x45(D)	ref.7065 130(W)x246(H)x33(D)	ref.9195 SINGLE* 201(W)x319(H)	ref.8404 SINGLE ref.8412 DOUBLE	ref.8382 SINGLE ref.8393 DOUBLE
<b>S6</b> (5V)	ref.8856 115(W)x280(H)x45(D)	ref.7066 130(W)x294(H)x33(D)	ref.9196 SINGLE* 201(W)x366(H)	ref.8405 SINGLE ref.8413 DOUBLE	ref.8383 SINGLE ref.8394 DOUBLE
<b>S7</b> (6V)	ref.8857 115(W)x328(H)x45(D)	ref.7067 130(W)x341(H)x33(D)	ref.9197 SINGLE* 201(W)x414(H)	ref.8406 SINGLE ref.8414 DOUBLE	ref.8384 SIMPLE ref.8395 DOUBLE
<b>S8</b> (7V)	ref.8858 115(W)x375(H)x45(D)	ref.7068 130(W)x389(H)x33(D)	ref.9198 SINGLE* 201(W)x461(H)	ref.8407 SINGLE ref.8415 DOUBLE	ref.8385 SINGLE ref.8396 DOUBLE
<b>S9</b> (8V)	ref.8982 115(W)x420,5(H)x45(D)	ref.7069 130(W)x436,5(H)x33(D)	ref.9199 SINGLE* 201(W)x509(H)	ref.8480 SINGLE ref.8483 DOUBLE	ref.8386 SINGLE ref.8397 DOUBLE

All measurements are expressed in millimetres. (W) x (H) x (D) = WIDTH x HEIGHT x DEPTH

\*Double frame extension kit (ref.9200) or triple frame extension kit (ref.9201) is required for double and triple configurations.



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Audio and Video Door Entry Systems  
[www.fermax.com](http://www.fermax.com) | [fermax@fermax.com](mailto:fermax@fermax.com)