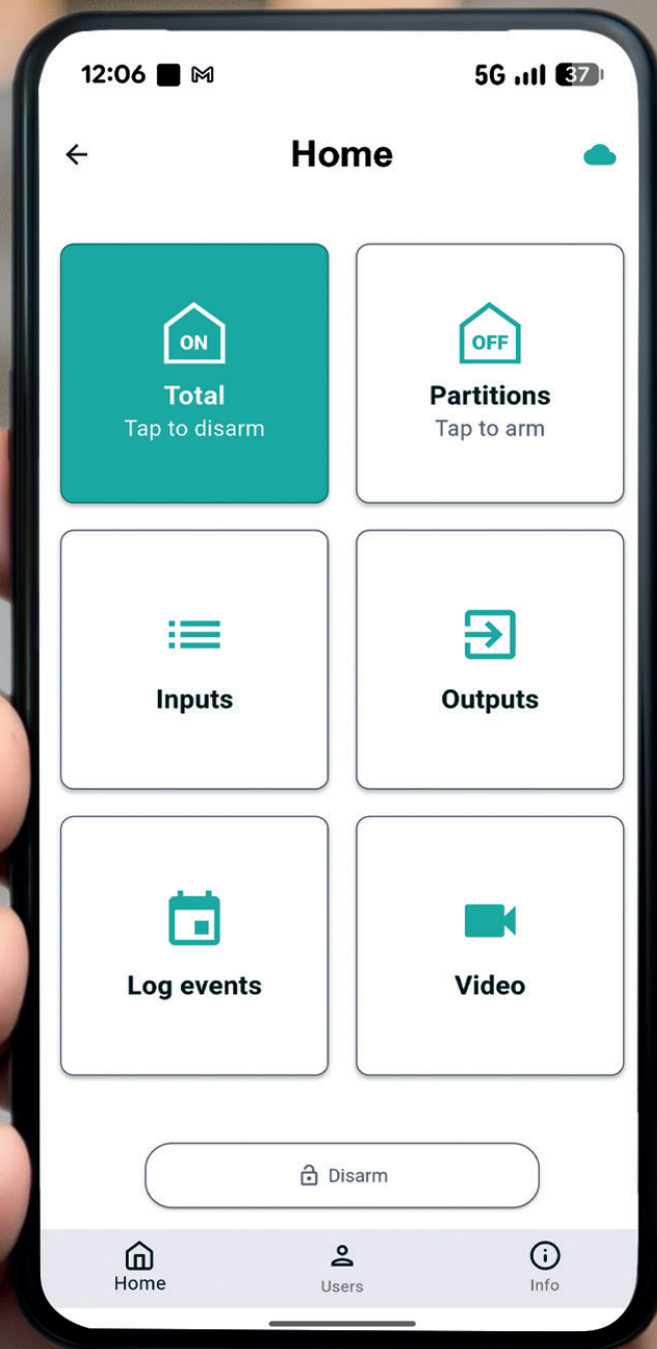


ANTI-INTRUSION SOLUTIONS

Complete security in the palm of your hand



The DEFENDER System

Defender is the flexible intrusion detection system designed to create technologically advanced installations that are easy to install and simple to manage, even from the convenience of a mobile App.

Its unique programming logic and the full cross-compatibility of all accessories—which can be connected to any Defender control panel—ensure immediate configuration and seamless management.



The range DEFENDER

The range includes five intrusion control panels, differing in the number of inputs and system management capabilities.

The control panels can be easily managed via the mobile app and through the free software available on the Fracarro website:

PROGRAMMER SICUREZZA EVO: enables the programming of the control panels via MOD-USB.

FR UPGRADE EVO: allows you to update the control panels and Fracarro devices.



DEFENDER 8

Code 910301

Remotely manageable control panel with fully bus-based accessories for intrusion detection systems. It features 4 freely programmable lines, expandable to 8, and is equipped with integrated control buttons and LEDs.



DEFENDER 24

Code 910377

Remotely manageable control panel with fully bus-based accessories for intrusion detection systems. It features 8 freely programmable lines, expandable to 24 (wired or wireless), while the keypads ensure easy programming.



DEFENDER 64

Code 910303

Remotely manageable control panel with fully bus-based accessories for intrusion detection systems. It features 8 freely programmable lines, expandable to 64. The system allows the management of up to 12 partitions and supports up to 64 electronic keys, while the keypads ensure easy programming.



DEFENDER 64M

Code 910315

Remotely manageable control panel with fully bus-based accessories for intrusion detection systems. It features 8 freely programmable lines, expandable to 64. The system allows the management of up to 12 partitions and supports up to 64 electronic keys, while the keypads ensure easy programming. Includes a 3.4 A power supply.



DEFENDER HYBRID

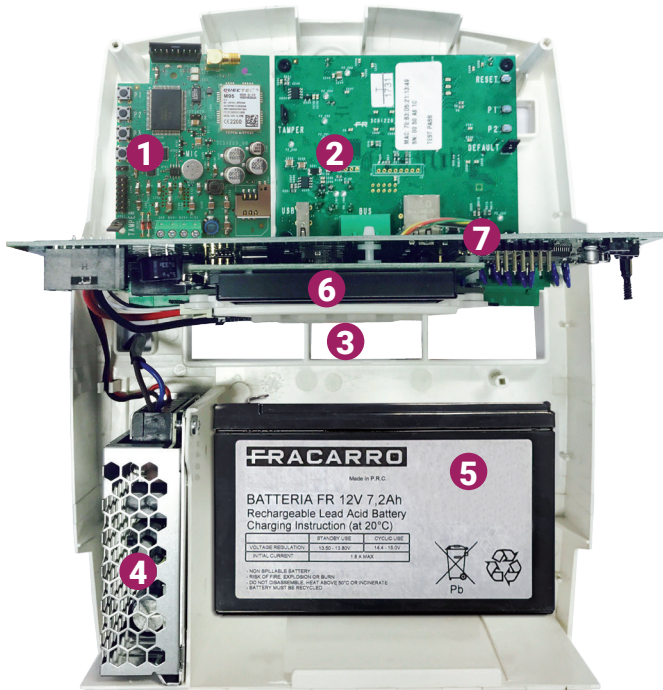
Code 910362

Multi-channel bidirectional wireless control panel with an integrated keypad and LCD display. As standard, Defender Hybrid can manage up to 40 wireless devices and 8 on-board wired inputs; with fully bus-based accessories, the inputs are expandable to 64 (wired or wireless) and are freely programmable.

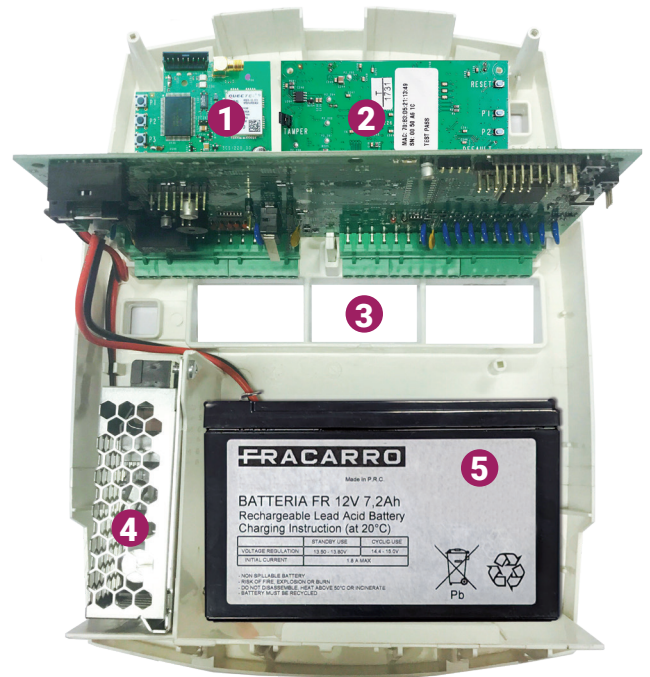
Control Units – Technical Data Sheet

	DEFENDER 8	DEFENDER 24	DEFENDER 64	DEFENDER 64 M	DEFENDER HYBRID
Code	910301	910377	910303	910315	910362
On-board wired Lines	4	8	8	8	8
Integrated Wireless Lines	0	0	0	0	40
Maximum Number of Lines with Expanders (Wired and Wireless)	8	24	64	64	64
No. of Partitions	4	12	12	12	12
GSM Dialler Integrated into the Control Panel	Yes	Yes	Yes	Yes	Yes
Integrated LAN Interface	MOD-LAN EVO	MOD-LAN EVO	MOD-LAN EVO	MOD-LAN EVO	MOD-LAN EVO
Control Devices Integrated into the Control Panel	LED and buttons	-	-	-	Keypad and LCD Display
Software Programming	With keypads and MOD-USB	With keypads and MOD-USB	With keypads and MOD-USB	With keypads and MOD-USB	With keypads and MOD-USB
Enclosure	Plastic	Plastic	Plastic	Metal	Plastic
Opening Tamper Protection	Yes	Yes	Yes	Yes	Yes
Removal Tamper Protection	Optional	Yes	Yes	Yes	Yes
Power Supply	2,4 A	2,4 A	2,4 A	3,4 A	2,4 A
Backup Battery (Not Included)	7 Ah	7 Ah	7 Ah	12 Ah	7 Ah
Number of Users	1 Master, 1 Installer without T8N (+8 users with T8N)	26 (1 Master, 1 Installer, 24 Users)	26 (1 Master, 1 Installer, 24 Users)	26 (1 Master, 1 Installer, 24 Users)	26 (1 Master, 1 Installer, 24 Users)

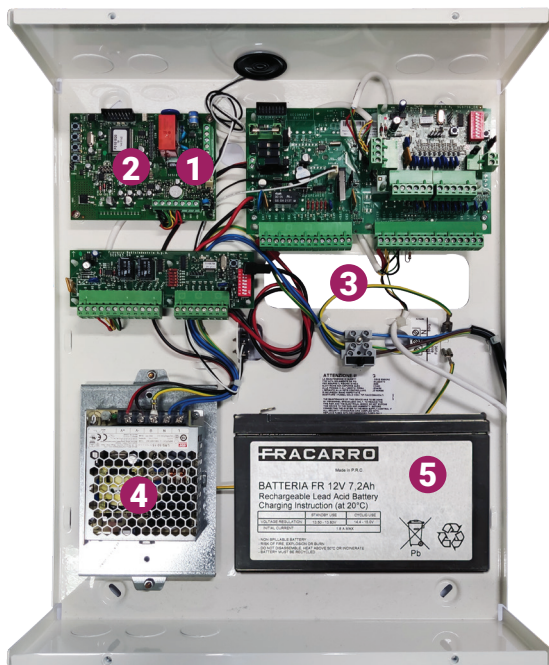
Control Panel Base and Internal Components



DEFENDER HYBRID Control Panel Base



DEFENDER 8, 24 and 64 Control Panel Bases



DEFENDER 64M Control Panel Base

- 1** GSM Dialler Compartment
CT-BUS GSM MINI (Code 910372)
- 2** Compartment for One Auxiliary Module:
 - A** LAN Interface (MOD-LAN EVO, Code 910367)
 - B** PSTN Dialler (CT-BUS, Code 910304)
 - C** Wireless Interface (MOD-WL 16, Code 910413)



A



B



C

- 3** Cable Routing Provision
- 4** Switching Power Supply
- 5** Lead-Acid Backup Battery Compartment (Not Included)
- 6** Integrated T8N Keypad
- 7** Wireless Interface (Up to 40 Wireless Lines)

DEVICES



T8 TOUCH

7-inch Capacitive Colour Touchscreen Keypad with BUS connection for the management and programming of the Defender intrusion detection system range.

Code 910441



T8N

Keypad with Backlit Alphanumeric LCD Display.

Code 910306



TC5 WL

5-Button Bidirectional Wireless Remote Control.

Code 910427



CH-BUS UNI KIT

Kit comprising one reader and two electronic keys; expandable by adding CH10-BG electronic keys (Code 911017) and CH-BUS UNI remote readers (Code 911033).

Code 911034



CT-BUS

Digital PSTN Telephone Dialler with Integrated Voice Synthesis.

Code 910304



CTGSM PRO

Standalone Telephone Dialler operating on both PSTN and GSM networks, ensuring maximum security even in the event of PSTN line failure.

Code 910304



ESP-CT-GSM

GSM Network Expansion Module for the CT-BUS Dialler

Code 910363



CT-BUS GSM MINI

Mini GSM Telephone Dialler with Integrated Voice Synthesis and Remote Management via Phone Call and SMS.

Code 910372



MOD-LAN EVO

Module installable in all Defender control panels for network connectivity and management via the iDefender app.

Code 910367



MOD-WL16

Wireless Interface for adding up to 16 wireless lines, 16 remote controls and 4 wireless sirens to the Defender control panel.

Code 910413

The Defender range includes a comprehensive series of optional BUS485 modules, compatible with all control panels in the system, allowing the installation to be customised by integrating the desired features according to specific protection requirements.



MOD-WL40

Wireless Interface for adding up to 40 wireless lines, 16 remote controls and 4 wireless sirens to the Defender control panel.

Code 910376



M4IBUS

4-Input Expansion Board for Expanding the Wired Lines of the Control Panels.

Code 910308



M8IBUS

8-Input Expansion Board for Expanding the Wired Lines of the Control Panels.

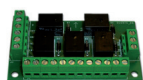
Code 911060



M8UBUS

8-Output Wired Expansion Board.

Code 911061



MOD-5REL

Expansion Board with 5 SPDT Relay Outputs, 12/24 V.

Code 910310



R24HRP2

Interface Board with 1 SPDT Relay Output, 12/24 V.

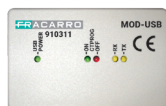
Code 999098



MOD-ISOBUS

BUS485 Isolator for BUS Protection in the Event of Tampering and for BUS Signal Regeneration.

Code 910379



MOD-USB

Module for PC Configuration and Updating of All Defender Control Panels via the Free PROGRAMMER SICUREZZA EVO and FR UPGRADE EVO Software.

Code 910311



AL24-BUS

2.4 A Field Power Supply for System Expansion with Additional Devices.

Code 910378

WIRED DETECTORS



RM Series

Recessed or Surface-Mount Magnetic Detectors, suitable for perimeter intrusion protection.

Various Codes
(see website)



IR-1000-EVO

Indoor Infrared Detector with temperature compensation, anti-masking and anti-obscuration/anti-flooding protection. Featuring a dual-element PIR sensor with up to 12 m coverage and pet immunity.

Code 998973



DT1200AM EVO

Microprocessor-Controlled Dual-Technology Detector with anti-masking and anti-obscuration protection, up to 12 m coverage and pet immunity. Features a Warning function that, in the event of a fault, switches the sensor to exclusive OR mode.

Code 998973



DT3600

Ceiling-Mount Dual-Technology Detector with dual temperature compensation, anti-masking and anti-obscuration protection. IR section with dual-element PIR sensor and 10.5 GHz Stripline microwave technology. Selectable detection range of up to 3.5 m.

Code 998975



RH40

Mercury-Contact Vibration Detector with NC Contact, housed in a cylindrical plastic body and equipped with a 4-conductor cable.

Code 920046



RI55

Inertial Vibration Detector housed in a plastic enclosure with mounting holes for surface installation and equipped with a 4-conductor cable.

Code 920018



RL1

Liquid Detector using terminals soldered to the circuit-board tracks or a dedicated area of the board with exposed conductive tracks.

Code 999149



RF4-R

Tyndall-Effect Smoke Detector for detecting temperature increases above the preset threshold or sudden temperature rises.

Code 920166

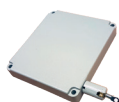
The Fracarro Defender system is complemented by a comprehensive range of wired and wireless detectors, enabling the installation of intrusion detection systems tailored to every requirement.



RF45-WHEEL W and RF45-WHEEL M

Roller Shutter Contact with 4-Pole NC Terminal Block for Alarm and Tamper Outputs. Available in white or brown.

Code 998996
Code 998995



RF45 NEW

Digital Roller Shutter Contact with Adjustable Head and Bearing-Mounted Wire Tensioner.

Code 998997



BIR20-100 NEW

Outdoor Dual-Beam Active Infrared Barriers for long-range detection in both outdoor and indoor environments.

Code 910439



SHIELD C

Outdoor Dual-Curtain Detector with 90° Adjustable Dual Curtains, Triple Technology (2IR+MW) and Active IR Anti-Masking. Available with output module, heater and rain cover.

Code 998992



SHIELD V

Adjustable volumetric outdoor detector with triple technology (2IR + MW) and active IR anti-masking. Available with output module, heater, and rain cover.

Code 998993



SHIELD 180

Outdoor IR detector with 180° adjustable double curtain. Available with output module, heater, and rain cover..

Code 998981



SHIELD 180 MW

180° double curtain outdoor IR detector, dual technology, 2 IRs for each detection side + front anti-approach PIR, with anti-masking function.

Code 998978

WIRELESS DETECTORS



MM WL and MB WL

Wireless magnetic sensor with digital technology for indoors. Available in white or brown. Batteries included.

Code 910403
Code 910404



MM2 WL and MB2 WL

Wireless magnetic sensor with digital technology for indoors, with two channels for managing a wired device. Available in white or brown. Batteries included.

Code 910405
Code 910406



IR PET-WL

Wireless infrared volumetric sensor with digital technology for indoors with pet immunity function. Batteries included.

Code 910414



TEATRÒ B-WL and TEATRÒ M-WL

Passive infrared detector capable of creating a curtain-like protection barrier, useful for doors, windows, and anywhere motion in a single direction needs to be detected. Two selectable sensitivity levels. Batteries included.

Code 910401
Code 910402



SHIELD C WL

Wireless outdoor curtain detector with a double curtain adjustable to 90°, triple technology (2IR + MW) with active IR anti-masking. Available: output module, heater, and rain cover. Batteries included.

Code 910380



SHIELD V WL

Adjustable volumetric outdoor wireless detector, triple technology (2IR + MW) with active IR anti-masking. Available: output module, heater, and rain cover. Batteries included.

Code 910381



IR2EX - WL2

Outdoor wireless IR detector with 180° curtain protection on both sides and with anti-masking function.

Code 910440

SIREN



SED70-LED

Self-powered outdoor siren with LED flash and reinforced polycarbonate case.

Code 910329



SEL80-LED

Self-powered outdoor siren with LED flash, reinforced polycarbonate case and included anti-foam and anti-perforation sheet metal protection.

Code 910328



SEL-WL

Two-way wireless outdoor siren with digital technology and high-intensity LED flash. Batteries included.

Code 910429



SEL5

Indoor siren equipped with a high-output piezoelectric horn, adjustable on two levels via a jumper, with low current consumption.

Code 910368



SEL5A

Indoor siren equipped with piezoelectric horn, self-powered by buffer battery (9 V alkaline).

Code 910369



SEL5F

Indoor siren equipped with piezoelectric horn, with integrated flashing light.

Code 912001



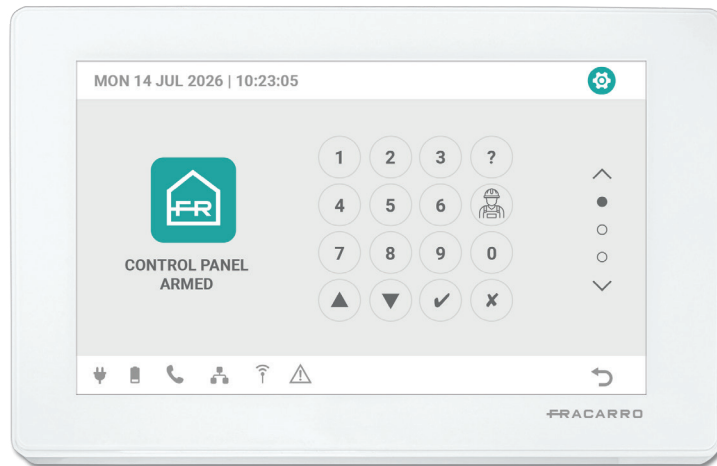
STEEL PROT

Vandal-proof metal protection for SED70 siren.

Code 910361

DEFENDER TOUCH KEYBOARD

Fracarro presents the **T8 TOUCH keypad** (code 910441), a bus device equipped with a 7-inch capacitive touch screen, designed to offer a simple and immediate user experience in the management of **DEFENDER intrusion detection systems**.



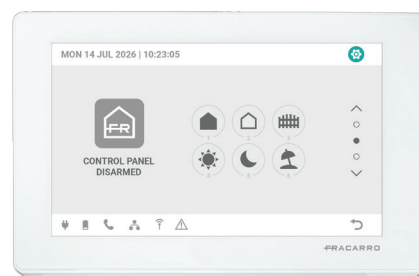
Developed entirely by **Fracarro's Research and Development department**, the T8 TOUCH keypad allows you to control all system functions through intuitive interfaces. In addition to the usual arming and disarming operations, the user can configure shortcuts with customized functions, such as arming the night partition or perimeter sensors.

The keypad also allows you to manage control actions for home automation, making the system even more versatile.

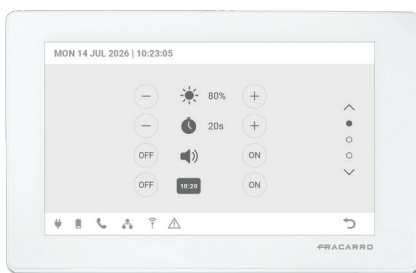
The elegant and modern design, perfectly integrating into residential and professional environments, is combined with ease of installation: the keypad is fully backwards compatible and can be mounted both on the wall and on standard 502, 503, and 504 boxes.



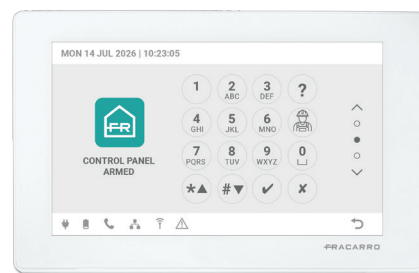
Standby mode displaying time, date, connectivity, and control panel status.



Shortcut keys for configuring custom functions.



Brightness, standby time, and volume **settings**.



Installer keypad for initial activation and maintenance.

iDEFENDER+ APP

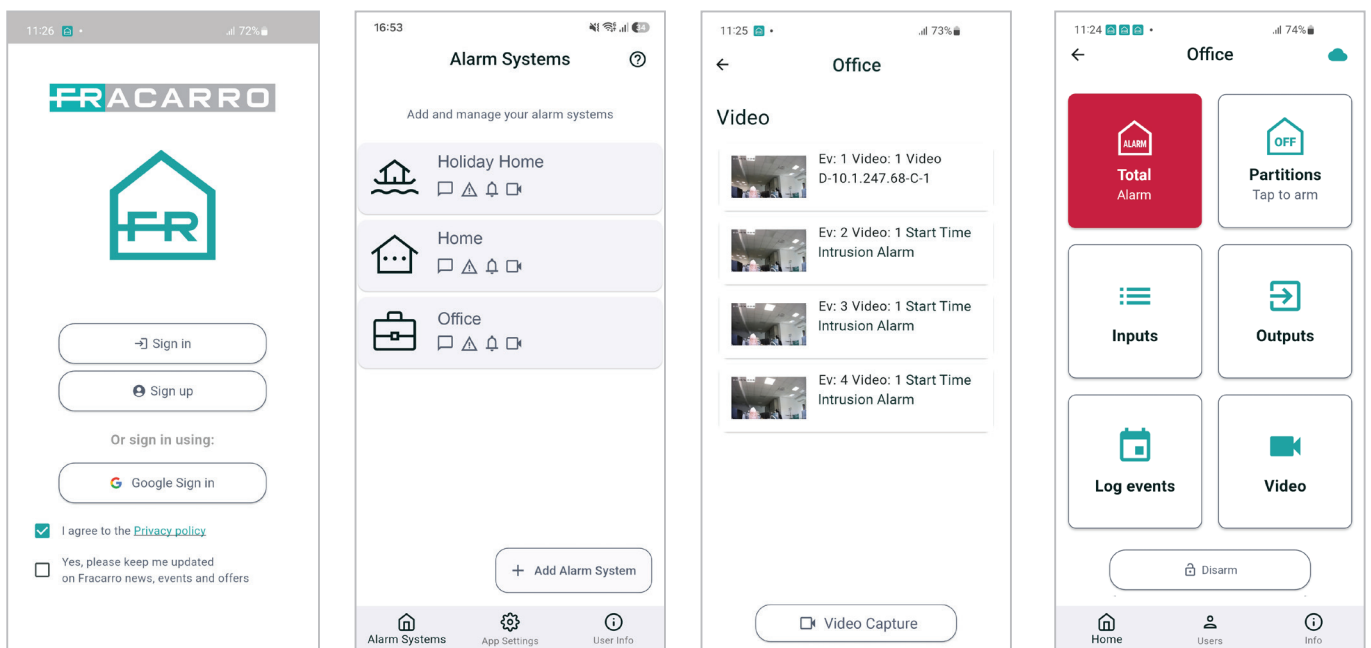
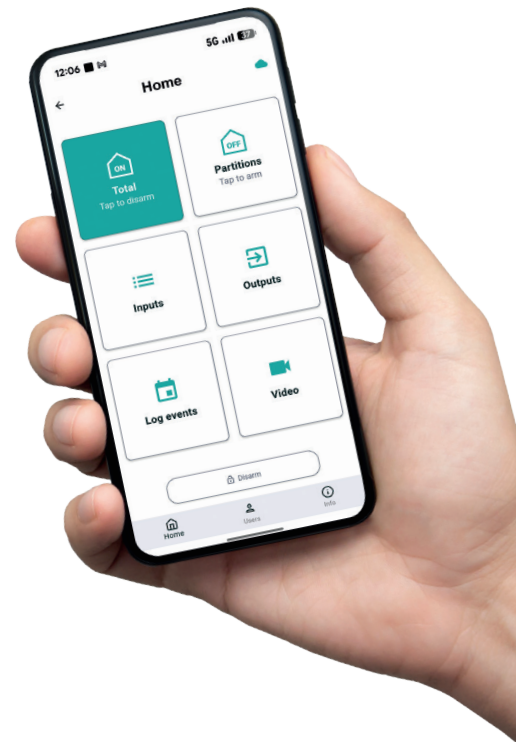
iDEFENDER+ is the **free app developed by Fracarro** for the remote management of **Defender intrusion detection systems**. It now features a completely revamped look, with a more modern and intuitive graphical interface designed to ensure a smooth and seamless user experience.

Simplicity and security

iDEFENDER+ is easy to use because it utilizes the **FRCLOUD service** (managed by Fracarro in Europe) and requires no router configuration. Authentication is handled via a Google account or an email address and password; the **security level** of the **iDEFENDER+** app has been enhanced by the option to unlock access using a fingerprint or Face ID.

Video verification function

In the event of an alarm, **iDEFENDER+** allows you to send **video notifications** from the cameras. At the user's request, even in the absence of an alarm, the application allows the viewing of videos recorded by the cameras, useful for activating any home automation or simply for monitoring one's living spaces at any time.



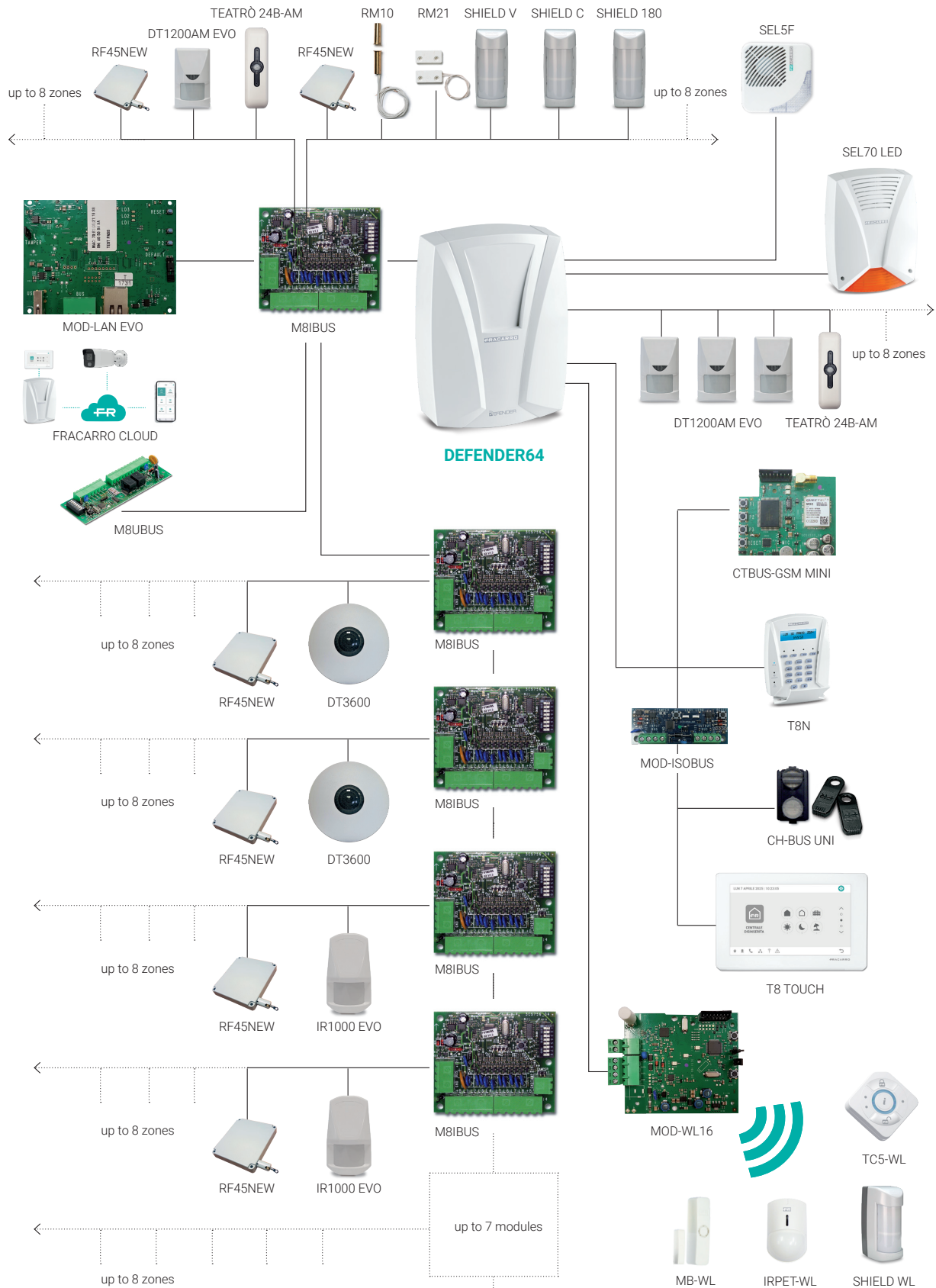
Other functions

The **iDEFENDER+** app allows you to **manage all functions** of connected systems (up to 10) and receive **push notifications** customized according to the specific event reported.

You can check and change the **system status**—arming or **disarming the system and partitions**, and **managing alarm zones**—quickly and with a simple click.

The **event log icon** allows you to monitor all activities performed by the control panel: arming, disarming, user access, and alarms.

Installation example

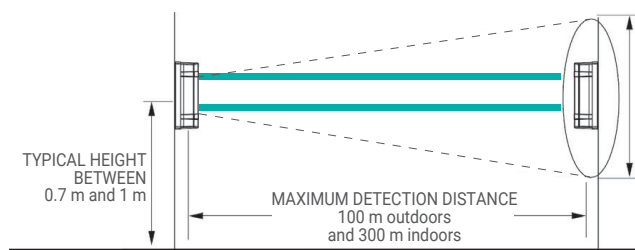


Outdoor barrier and detector covers

Indoor and outdoor barriers



BIR20-100 NEW



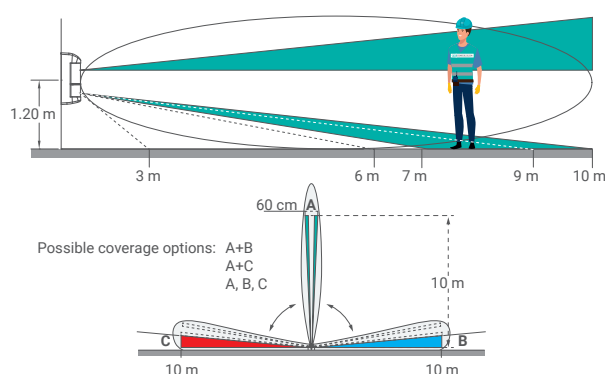
Curtain effect outdoor detectors



SHIELD C



SHIELD C WL



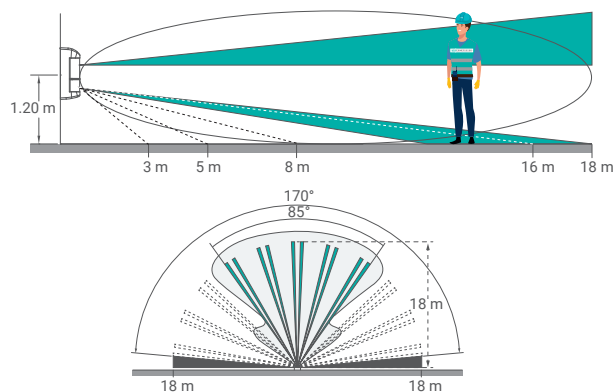
Outdoor volumetric detectors



SHIELD V



SHIELD V WL



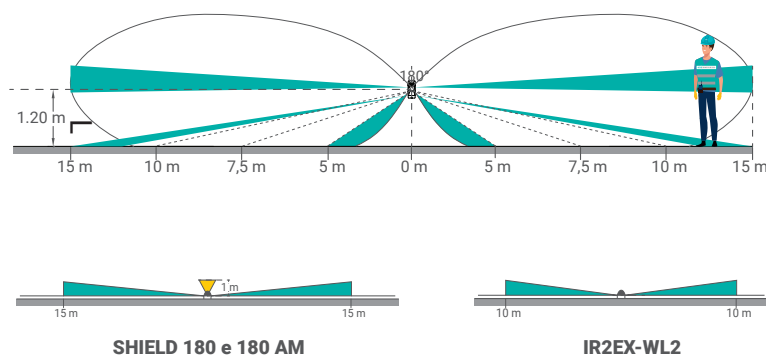
180° outdoor detectors



SHIELD 180 and 180 MW



IR2EX-WL2



▼ Anti-masking function

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