# PREVIDIA

SYSTEM FOR THE INTEGRATED
MANAGEMENT OF BUILDING SAFETY



PUBLIC ADDRESS

GAS
DETECTION

VIDEO
VERIFICATION

GRAPHIC
MAPS

VOICE EVAC AND
PUBLIC ADDRESSING

inim
Cloudfire

FIRE DETECTION
AUTOMATIC
AND MANUAL
SIGNALLING

EXTINGUISH SYSTEM
CONTROL

EMERGENCY
LIGHTING

AUDIBLE - VISUAL -
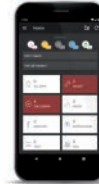VOICE ALARM

ELEVATOR

INTERACTION
WITH BUILDING

EMERGENCY
TELEPHONES

inim®

# PREVIDIA|MAX

# PREVIDIA|COMPACT

# PREVIDIA|ULTRAVOX

The circle closes. After fire detection, gas detection, emergency lighting, videocamera control, PREVIDIA opens up towards a new evolution: the management voice evacuation. In pure Inim style, with Italian developed technology developed in the INIM R&D department. Fire detection joins with voice evacuation to give life to the first EN54-2 and EN54-16 certified control panel: PREVIDIA ULTRAVOX.

# Index

System for fire detection and alarm systems, voice evacuation and public address, fire extinction, gas detection, emergency lighting.

**NEW**

PREVIDIA|MAX          PREVIDIA|COMPACT          PREVIDIA|ULTRAVOX

The PREVIDIA series is expanding with the addition of the new PREVIDIA ULTRAVOX model, the first in the sector capable of combining fire detection and alarm functions with VOICE EVAC/PUBLIC ADDRESS functions.

The PREVIDIA system, based on latest generation technologies, now also with DSP for Audio Signal Processing, fully configures as a system for the integrated management of building security: AN INTEGRATED SYSTEM.

GAS DETECTION

PUBLIC ADDRESS

VIDEO VERIFICATION

GRAPHIC MAPS

VOICE EVAC AND PUBLIC ADDRESSING

FIRE DETECTION AUTOMATIC AND MANUAL SIGNALLING

EXTINGUISH SYSTEM CONTROL

EMERGENCY LIGHTING

AUDIBLE - VISUAL - VOICE ALARM

INTERACTION WITH BUILDING

ELEVATOR

EMERGENCY TELEPHONES

## Integrated system

An integrated system means:
- Optimized costs - reduced wiring costs, communication and power-supply equipment in common, user interface in common
- Simplified maintenance - all-in-one installation, all-in-one maintenance
- More efficient maintenance - all-in-one installation, a better maintained installation
- Greater synergy - ease of interaction and coordination between the various systems
- Greater effectiveness - centralized user interface, more effective cause-effect interactions

## A series

What is the advantage of having a series of control panels available?
 All the models of the PREVIDIA series share the same user interface, the same configuration software, the same tools. Once familiar with a model from the series, you have an offer that can cover all types of installation, from small systems with few detectors to large structures.

# Technologies

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## Fire detection technologies

The PREVIDIA system was born and maintains as its main function that of fire detection, the various models are capable of managing up to 16 loops per control panel, each of which accepts the connection of up to 240 devices from those available in the Inim offer: smoke, temperature and combined detectors, addressable call points, alarm indicators, single or multiple input/output modules, modules with supervised outputs, relays or mains voltage relays.

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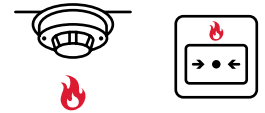
## Alarm signalling

The audible-visual alarm signallers of the ES1000 and ES2000 series can be connected directly to the loops. The wide range includes devices for mounting to walls or ceilings or included in the detector bases. The different models can manage audible signalling with tones certified according to EN54-3, visual signalling certified according to EN54-23, audible signalling via pre-recorded messages.

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## Voice Evac

The system, in the PREVIDIA ULTRAVOX model, includes EN54-16 certified voice evacuation functions. Each cabinet (each control panel can comprise one to four stacked cabinets) houses a 1000W power supply and can contain up to 8 amplifiers of 250W each.
The control panel allows the reproduction of pre-recorded messages in the various evacuation zones (up to 1000 zones can be managed) and the broadcasting of live announcements via the PTT microphones on board or the remote emergency microphone bases. The system architecture, based on the latest generation DSP processors, is capable of  digitizing external audio sources, playing different audio warnings on the various zones, managing volumes and equalizing each source and each amplifier.
Each amplifier manages two distinct lines (A - B) supervised by a high frequency signal and individually protected against short circuits, the two lines can be connected in LOOP mode by inserting IAS-ISOL short-circuit isolators on the loop.

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## Public address

The acoustic diffusion system, in non-emergency conditions, can be used for the diffusion of music (connectable on the various analogue inputs or from digital or web sources via IASS server), pre-recorded announcements that can be activated by timers or external conditions and voice announcements via microphone bases. It is possible to send different announcements to each zone and thanks to DSP digital processing the volume and equalization of each source and each speaker line can be adjusted. By means of a very convenient APP for smartphones (or by acting directly on the WEB page of the IASS server), each user can intervene on the audio areas of their competence to adjust the volumes, select the audio sources, voice announcements to be reproduced.

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## Extinction

All models are certified according to the EN12094-1 standard and manage gas extinguishing systems; the modular control panels support management of several discharge zones from a single control panel (Previdia Max and Pevidia ULTRAVOX up to 24 channels), while the compact models (PREVIDIA COMPACT) manage a single channel, suitable for installations that require the use of local extinguishing control panels interconnected to a network.
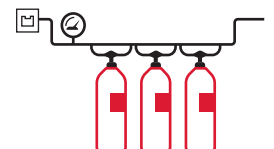
## Emergency telephones

The system can manage a series of emergency telephones, to be installed in tranquil places, through which the occupants of the building can contact the central console and communicate with the emergency personnel. Each control panel can manage up to 16 emergency telephone lines.

## Emegency lighting

Inim Electronics emergency lighting (safety lighting and escape route signalling devices) can be connected to the loops of PREVIDIA control panels. These devices, equipped with an internal battery and connected to the electrical network, can be activated or dimmed according to the conditions, periodically perform both functional and battery autonomy tests according to a schedule set in the control panel and report to the system the test results, any anomalies found and the detected battery life.
 All data relating to the emergency lighting system is collected, stored and provided in reports compliant with legislation requirements, accessible directly from the Cloud.

## Gas detection

Inim Electronics GAS detectors can be connected directly to the control panel loops, available in IP55, ATEX or ATEX formats with touch display, based on sensitive elements of various technologies depending on the type of gas to be detected: Semiconductor, catalytic, pellistor, electrochemical, infrared. Inim Electronics GAS detectors are capable of detecting a vast array of different gases and of report the detected value directly to the control panel, thus allowing you to set different intervention thresholds (3 different individually programmable thresholds on each detector) and to integrate the gas detection into the programmable logics.
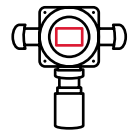
## Video verification

The PREVIDIA control panels are capable of interacting with the video surveillance system of the buiding, simply by connecting the system to the same LAN network and indicating in the configuration which are the various cameras associated with the different zones or detection points, the control panels will be able, by means of ONVIF protocol, to position the cameras and take shots of the exact point where the alarm was detected. The images are shown both on the displays of the control panels, on the remote keypads (repeaters), on the web page of the Cloud accessible from any PC and on smartphones thanks to the Inim Fire APP.

## Graphic maps

The information provided to the end user by means of detailed texts entered when configuring the system, can be accompanied by interactive graphic maps that allow immediate understanding and localization of danger. The graphic maps are shown both on the displays of the control panels, of the remote keypads (repeaters) and on the web page of the Cloud accessible from any PC and on smartphones thanks to the Inim Fire APP.

## Networking

The control panels of the PREVIDIA series can be networked together using different technologies, the different technologies can coexist within the same system.
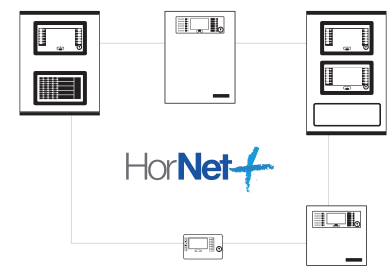
### IDANET

the new network connection technology of the ULTRAVOX control panels, based on a ring architecture, each section can be made using a CAT5 ethernet cable (up to 100m) or by means of optical fibre (by inserting an appropriate SFP module in accordance with the type of fibre used). The IDANET network, in addition to sharing all the information between the various control panels, thus creating a single system, is also capable of sharing up to 20 audio tracks, allowing sound sources to be conveyed from one node of the system to another.
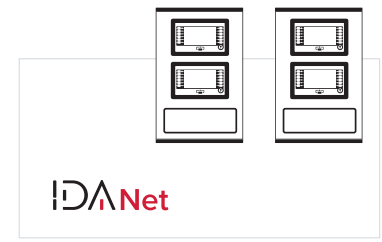
### HORNET+ system

network connection between PREVIDIA ULTRAVOX, PREVIDIA MAX and PREVIDIA COMPACT control panels. Based on a ring architecture, each section is based on RS485 and must be made using a shielded twisted pair (Ethernet cable) with a distance of up to 500m.
The HORNET+ technology allows you to share all the system information on a par with the IDANET network but not the audio tracks.

### TCP-IP

Each "cluster" created with IDANET or HORNET+ technologies (or single control panels) can be connected via TCP-IP with others clusters up to a maximum of 20. This type of networking makes it possible to take advantage of existing LAN networks in order to interconnect the control panels with each other.
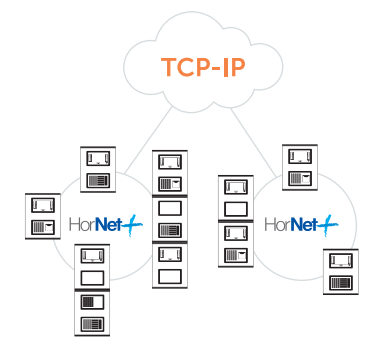
## Inim Cloud Fire

All the Previdia series control panels can be connected to the Inim Fire Cloud. The Cloud service applied to fire detection and alarm systems is completely free and allows the two profiles, Installer and User, to remotely control their systems, overcoming any networking problems and making all the control panels accessible from any location. The Inim Fire Cloud features video verification functions via IP cameras and event location and system management via topographic maps. Thanks to these features, the web interface of the Cloud is configured as an actual supervision station (Building Management System), to keep under control an unlimited number of installations, points and zones object of signalling, function keys and customizable status icons. The Inim Fire Cloud features video verification functions via IP cameras and event location and system management via topographic maps. Thanks to these features, the web interface of the Cloud is configured as an actual supervision station (Building Management System), to keep under control an unlimited number of installations, points and zones object of signalling, function keys and customizable status icons. Finally, Inim Fire Cloud records in detail the test operations performed on each individual detector and allows

you to maintain an archive of test reports which can be consulted by both the installer and the user. It automatically provides diagnostic reports capable of indicating whether all the periodic maintenance operations on each individual element of the system have been performed, allowing the installer to plan his work and the user to verify the effective maintenance of the system.

## Inim Fire App

Inim Fire is the App that can be downloaded for free from iOS and Android stores, aimed at both professionals (installers and maintenance technicians) and end users (installation managers, security managers, etc.), and allows you to manage all the Previdia series control panels connected to the Inim Fire Cloud . Thanks to its simple and intuitive interface and the use of "push notifications", Inim Fire provides a clear and immediate overview of what is happening on all the systems under its dominium. With a few taps on the display it is then possible to go into detail to explore the status of each element of the system.

## Certifications

The PREVIDIA system has obtained all the certifications in accordance with all the applicable regulations. The certifications have been issued by the most renowned Italian and European certification bodies: IMQ, LPCB, UL, BOSEC, DBI, CNBOP.

## Inim Audio System Server (IASS)

The IASS server adds the most advanced "entertainment" audio functions to the system. In fact, the server maintains a TCP-IP connection with one or more ULTRAVOX control panels and, through access via WEB or via APP by an unlimited number of users, each with their own Access rights, allows reproduction on the various audio zones: an unlimited number of playlists made up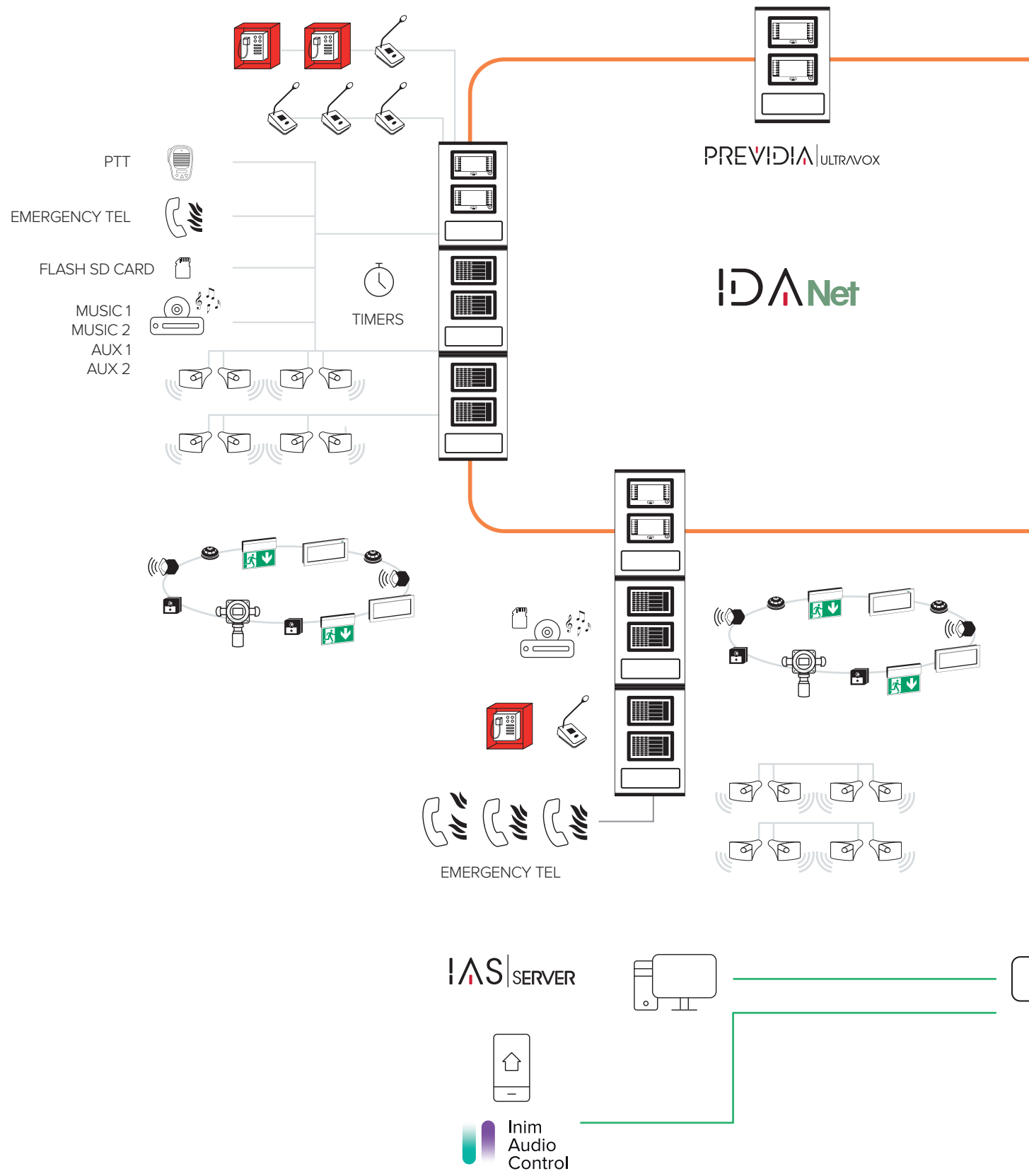 of audio files, TCP streaming audio sources such as web radio etc., audio tracks to be started via timer, voice announcements via smartphone... and much more. All the functions made available by the revolutionary IASS server are obviously stopped when an emergency occurs, giving priority to the voice evacuation functions. All the functions made available by the revolutionary IASS server are obviously stopped when an emergency occurs, giving priority to the voice evacuation functions.

## Inim Audio Control App (IAC)

The IAS APP, in combination with the IASS server, allows you to act on the audio zones pertaining to each user in order to: adjust volumes and equalizations, select and adjust the various physical sources available to the system, play existing playlists or create your own, play audio streaming TCP-IP (web radio), send voice announcements from your SmartPhone, activate pre-recorded messages, etc. The simple and intuitive user interface can be customized for each user thanks to very convenient widgets that allow you to immediately recall the most used functions.

PTT

EMERGENCY TEL

FLASH SD CARD

MUSIC 1
MUSIC 2
AUX 1
AUX 2

TIMERS

PREVIDIA | ULTRAVOX

IDA Net

EMERGENCY TEL

IAS | SERVER

Inim
Audio
Control

PREVIDIA|COMPACT

PREVIDIA|MAX

HorNet+

PREVIDIA|COMPACT

inim Cloudfire

LAN

InimFire

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EN 54-13
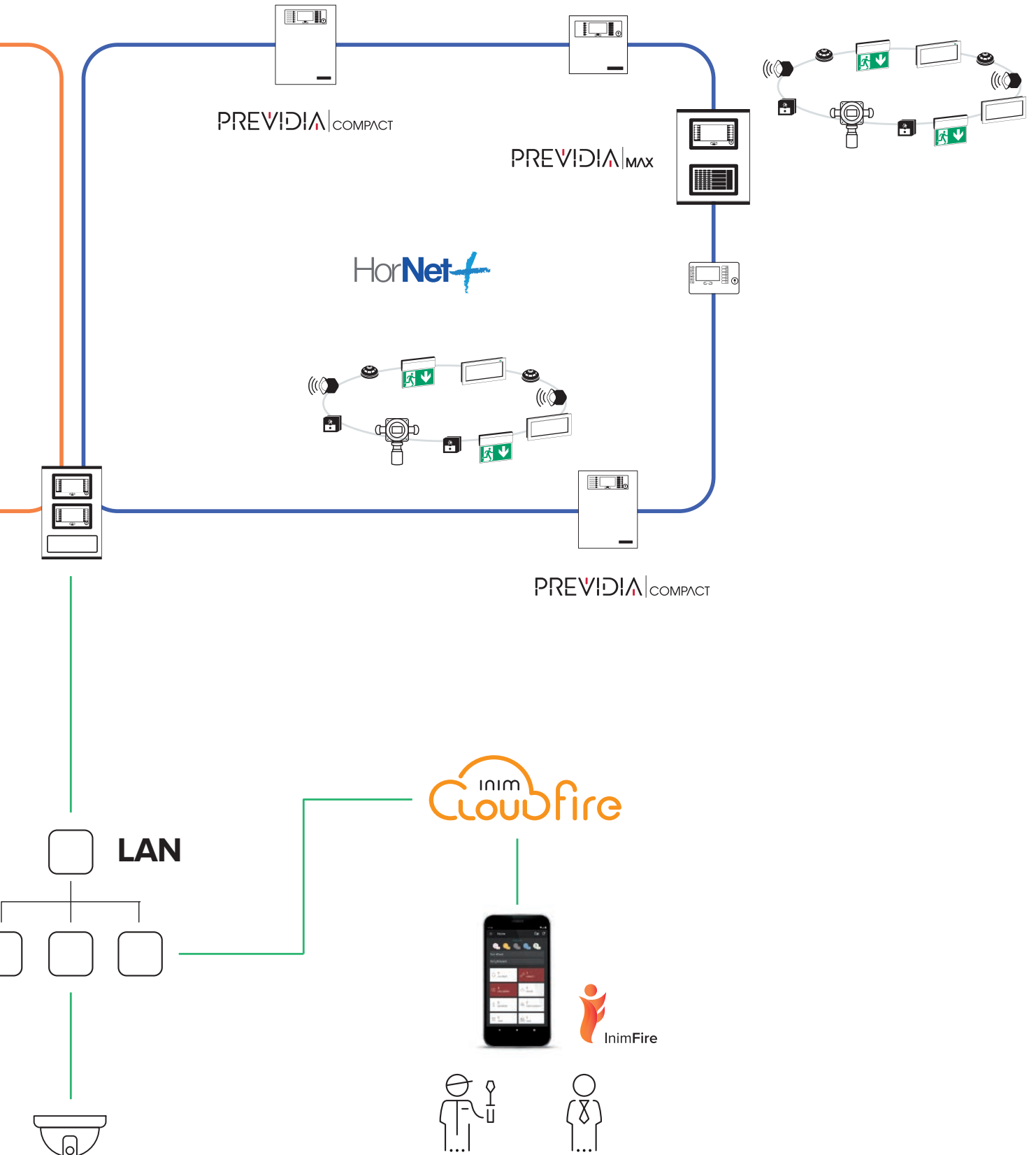
# Previdia Compact

PREVIDIA|COMPACT

The analogue addressable control panels of the Previdia Compact series represent the ideal solution for small to medium installations, combining the innovative features of the Previdia system with unique ease of use all within a compact cabinet. Programming from the display via a clear and intuitive user interface allows you to minimize system activation and maintenance times, making Previdia Compact the ideal choice. The control panels can be used individually or interconnected in a network. Network connection can be done via RS485 BUS, via TCP-IP connection or using a combination of both.

# The models

Available in the "Small" version (1.5A power supply and 7Ah batteries) or "large" (4A power supply and 17Ah batteries), in versions with 2 Loops, 1 Loop, 1 Loop limited to 64 devices, with or without the fire extinguishing function (1 gas extinguishing channel).

| MODEL | LOOP CAPACITY | | | CABINET | | ZONE STATUS LEDS | EXTINGUISHING MANAGEMENT |
|---|---|---|---|---|---|---|---|
| | 1 LOOP DA 64 PUNTI | 1 LOOP DA 240 PUNTI | 2 LOOP DA 240 PUNTI | SMALL CON ALIMENTATORE DA 1,5 A E BATTERIE DA 7Ah | LARGE CON ALIMENTATORE DA 4 A E BATTERIE DA 17Ah | | |
| C050S | ✓ | | | ✓ | | | |
| C100S | | ✓ | | ✓ | | | |
| C200S | | | ✓ | ✓ | | | |
| C200L | | | ✓ | | ✓ | | |
| C050SZ | ✓ | | | ✓ | | ✓ | |
| C100SZ | | ✓ | | ✓ | | ✓ | |
| C200SZ | | | ✓ | ✓ | | ✓ | |
| C200LZ | | | ✓ | | ✓ | ✓ | |
| C050SZE | ✓ | | | ✓ | | ✓ | ✓ |
| C100SZE | | ✓ | | ✓ | | ✓ | ✓ |
| C200SZE | | | ✓ | ✓ | | ✓ | ✓ |
| C200LZE | | | ✓ | | ✓ | ✓ | ✓ |

# The optional modules

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## PREVIDIA-C-DIAL

The PREVIDIA-C-DIAL remote communicator module, installed inside Previdia Compact control panels, manages remote communications via hardwired telephone line and GSM 3G network, it is capable of managing voice calls, of recording of up to 100 voice messages, of managing digital calls through the most widely used protocols and of generating automatic SMS texts.



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## PREVIDIA-C-COM

The optional PREVIDIA-C-COM module, once installed inside the Previdia Compact control panel cabinet, provides two RS232 ports and two RS485 ports for the connection of remote communicators, using the most widely used protocols in various countries. It also provides a socket for connection to the Ethernet network, by means of this second connection (it is necessary that both the motherboard and the module are connected to the same network) the advanced TCP-IP functions are implemented:
- sends e-mails;
- interactive WEB page with graphic maps for full management of the control panel;
- Video verification via connection to IP cameras with ONVIF protocol;
- BACnet protocol (subject to PRE-BACLIC license);



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## PREVIDIA-C-REP

Remote keypad with a compact and aesthetically attractive design, connects to the HORNET+ network (double RS485 connection), acts as a remote keypad for both the Previdia Compact, Previdia Max and PREVIDIA ULTRAVOX control panels. It provides detailed information about the entire network and has customizable display.

Available in versions:
- PREVIDIA-C-REPW: vbasic version. White plastic;
- PREVIDIA-C-REPEW: version with indications relating to an extinguishing channel. White plastic;
- PREVIDIA-C-REPR: basic version. Red plastic;
- PREVIDIA-C-REPER: version with indications relating to an extinguishing channel. Red plastic.

UL EU

LPCB
Cert. No. 911k

EN 54-2
EN 54-4
EN 54-13

EN 54-21
EN 12094-1

# Previdia Max

PREVIDIA MAX

System for fire detection and alarm systems, voice evacuation and public address, fire extinction, gas detection, emergency lighting.

The Previdia Max is a modular control panel for the construction of fire detection (and extinguishing) systems. Thanks to its modular architecture it constitutes a system perfectly suited to all types of installation, from small commercial applications to large installations such as airports, large hotels or shopping centres. The use of fully sealed functional modules guarantees the right protection for the electronic parts and allows you to add to the system the specific features required in each installation. Each control panel can consist of a minimum of one up to a maximum of four cabinets and is capable of managing up to 32 IFM modules. The control panels can be used individually or interconnected in a network. Network connection can be completed via RS485 BUS, via TCP-IP connection or using a combination of both. Thanks to its distributed intelligence structure that uses a microprocessor inside each module, redundant microprocessors in the main unit and the possibility of having backup CPU units, Previdia Max guarantees unparalleled reliability. System security is no longer entrusted to a single processing unit but to a group of interconnected CPUs that operate in synergy to give prompt and effective response at all times.

UL EU
LPCB
Cert. No. 911k

EN 54-2     EN 54-21
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EN 54-13

# The models

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## Previdia216

Each installation must start from a basic control panel to which function modules, additional cabinets and accessories are then added, where necessary.
Previdia216 includes:
N ° 1 FPMCPU module - Control panel with display
N ° 1 IFM24160 - 4A power supply module with integrated battery charger
N ° 1 IFM2L - 2 loop management module

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## Previdia216R

Same as Previdia216 but supplied in a red cabinet.

# The optional modules

## FPM Modules (Front Panel Module)

FPM MODULES (Front Panel Modules) are compatible with the PREVIDIA MAX and PREVIDIA ULTRAVOX control panels, they must be housed on the door of the cabinets, maximum two for each cabinet.

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### FPMCPU

Main control unit for Previdia Max control panels. It connects to the CANDRIVE bar contained in the metal cabinets and is equipped with a colour graphic display with a touchscreen. It takes care of the management of the control panel and of coordinating the various function modules. A single

Previdia Max control panel can house a maximum of 2 of these units (one primary and one secondary as a backup unit). It must be inserted in the front panel and connects to the CAN DRIVE bar if housed in the upper slot or to the FPM module housed in the lower slot.

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### FPMLED

Module equipped with 50 LEDs in 3 configurable colours (green, yellow and red), to be used for instant display of the status of a series of elements (zones, points, etc.). It must be inserted in the

front panel and connects to the CAN DRIVE bar if housed in the upper slot, or to the FPM module in the upper slot if housed in the lower slot.

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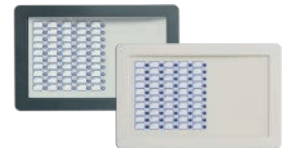
### FPMLEDPRN

Module equipped with 50 3-colour LEDs like the FPMLED item and an 80mm roll thermal printer. It allows real-time printout of the events recorded by the system. It must be inserted in the front panel

and connects to the CAN DRIVE bar if housed in the upper slot, or to the FPM module in the upper slot if housed in the lower slot.

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### FPMEXT

LED indicator module for fire extinguishing systems. If function modules are housed in the control panel IFMEXT, it is mandatory to use one or more FPMEXTs to visualize their status as separate indications from the display. Each FPMEXT module

provides the indications of 5 IFMEXT extinguishing modules. It must be inserted in the front panel and connects to the CAN DRIVE bar if housed in the upper slot, or to the FPM module in the upper slot if housed in the lower slot.

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### FPMNUL

Blind module to be used for closing the slots on the doors of metal cabinets where

no special functions are required.

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EN 54-13

Cert. No. 911k

# IFM Modules (Internal Fire Module)

IFM MODULES (Internal Fire Module) must be inserted on the CAN DRIVE bar inside the PREVIDIA MAX or CAN DRIVE+ cabinets present inside the PREVIDIA ULTRAVOX cabinets (max 8 IFM modules for each cabinet) depending on the functionality required.

## IFM24160

Switching power supply module. It connects to the mains and supplies the system with a maximum current of 4A. It also houses a 1.5A charger capable of keeping two 17Ah or 24Ah batteries under charge. It also houses 2 supervised outputs and a configurable relay output (factory configured as alarm output, AUX output and fault signalling relay). Accepts input voltages 230Vac or 115 Vac 50/60 Hz. Only one power supply module can be housed inside each metal cabinet. Each control panel manages a maximum of 4 power-supply modules (one for each eventual cabinet).

## IFM2L

Module for the management of two loops. Each loop can manage up to 240 devices. The module contains a step-up switching power supply for each Loop capable of maintaining the operating voltage (in alarm or stand-by conditions) at the set values. Each control panel manages a maximum of 8 IFM2L modules.

## IFM4R

4 configurable relay module. Each relay supports a maximum load of 5A @ MAX 30V. Each control panel manages a maximum of 16 IFM4R modules.

## IFM4IO

4 power input/output module. Each of the four channels can be configured as:
- supervised output capable of delivering a maximum current of 1A @ 27.6V
- supervised input capable of activating warning, pre-alarm and alarm signals
- conventional zone capable of managing a line of conventional detectors, max 32 detectors
- 4-20mA input able to read the signal of a 4-20mA detector; settable intervention thresholds

Each control panel manages a maximum of 16 IFM4IO modules.

## IFMDIAL

Remote communicator module via PSTN telephone line and GSM line, capable of making voice calls thanks to the messages that can be recorded inside and digital calls using the most widely used protocols (SIA, Contact ID, etc.). The module is also able to send SMS messages with detailed texts on recorded events. Each control panel manages only one IFMDIAL module.

## IFM16IO

Module with 16 low power input/output channels. Each channel can be configured as:
- digital input (unsupervised) activated with the presence of voltage;

- digital output (unsupervised) capable of withstanding a maximum load of 100mA @ 30Vdc. Each control unit manages up to 4 IFM16IO modules.

## IFMNET

Module for the connection of two or more control panels in the Hornet+ network, up to a maximum of 48. The module provides two RS485 ports for connection with the other control panels; the wiring must be completed in a closed loop. RS485 speed can be set from 9600 to 512k baud, a 12V output

is provided to power any RS485-optical fibres converters. Each control panel manages only one IFMNET module.
All the control panels interconnected in the network must house an IFMNET module.

## IFMLAN

Advanced TCP-IP functionality module. It allows a second connection of the control unit to the Ethernet network and provides the following services:
- web-server for system control, management and maintenance;
- e-mail with detailed information on the events;

- interface with ONVIF IP cameras for video verification;
- remote communications via SIA-IP protocol;
- BACnet * protocol (subject to license);
- ESPA444 protocol.
Each control panel manages only one IFMLAN module.

## IFMEXT

Module for the management of a gas extinguishing channel. It provides the terminals for the management of the devices commonly required in this type of installation and the appropriate activation logics. The various functions available on the terminals can be replicated on the devices

connected to the loop (with the exception of the solenoid valve control output). Each control panel manages up to 24 IFMEXT modules. The modules must necessarily be combined with the FPMEXT signalling front panel. Each FPMEXT module reports the signals of up to 5 IFMEXT modules.

EN 54-2    EN 54-21
EN 54-4    EN 12094-1
EN 54-13

Cert. No. 911k

# The accessories

A selection of accessories allows you to expand the control panel (additional cabinets) or to create installations according to cabling needs.

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## PRCAB

Additional cabinet complete with door, CAN DRIVE bar for connecting functional modules and battery shelves. On the front door there are two slots in which two FPM modules are inserted (if no particular functions are required, two blind FPMNUL modules can be used).
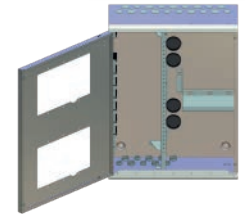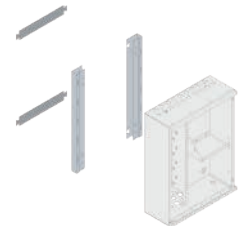
**PRCABR**: : cabinet same as the PRCAB item but in red.

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## PRCABSP

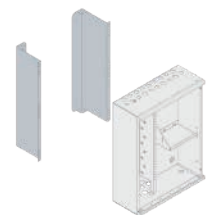Pair of brackets for mounting the cabinet at a distance from the wall. This accessory allows you to create a space of 5cm between the bottom of the cabinet and the wall to which it is fixed, to be used for the passage of cables.

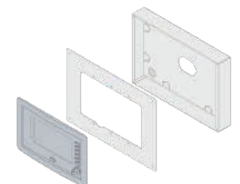**PRCABSPR**: same as PRCABSP but in red.

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## PRCABRK

Bracket for fixing the cabinet to a 19" rack.

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## PRREP

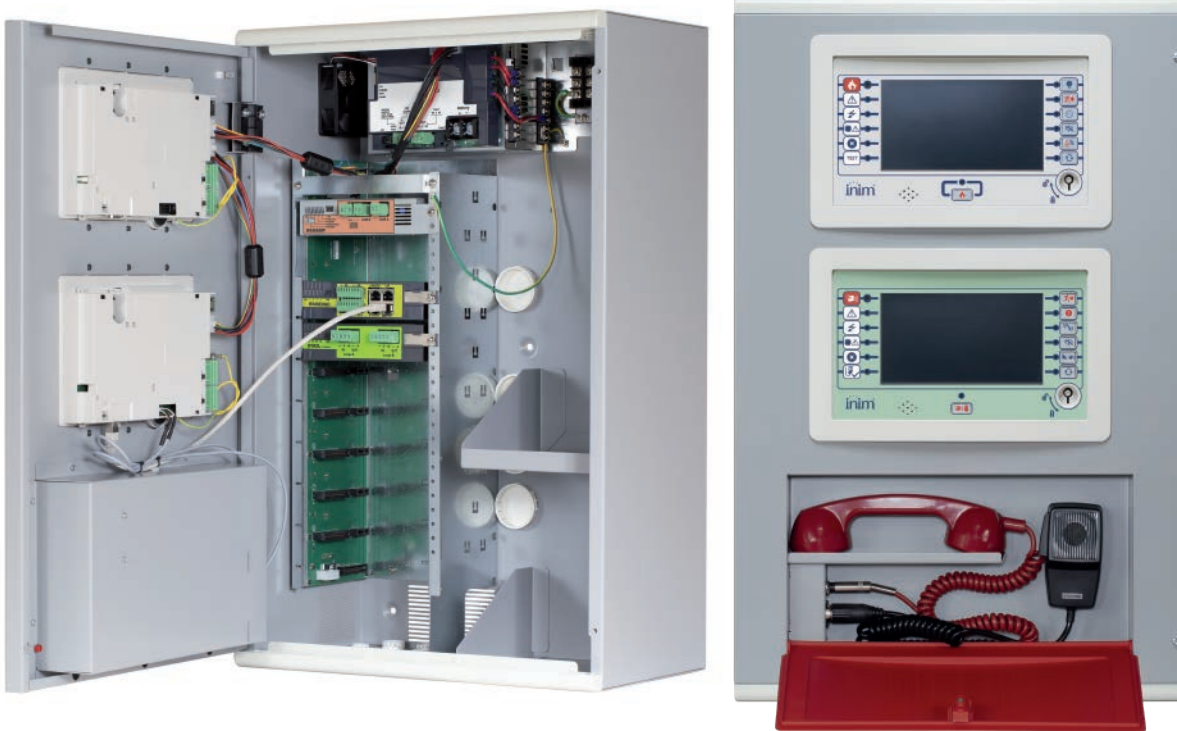Box for mounting the FPMCPU module as a remote repeater. Consisting of a brushed aluminum plate and a metal base, it can be wall or flush mounted.

# Previdia Ultravox

PREVIDIA | ULTRAVOX

**NEW**



The PREVIDIA ULTRAVOX control panels add the Voice Evacuation and Public Address functions to the functions shared by the other two models in the series. The PREVIDIA ULTRAVOX models house the CANDRIVE+ connection bar inside the cabinet and are compatible, in addition to the Audio function modules described below, also with the FPM (Front Panel Module) and IFM (Internal Fire Module) of the PREVIDIA MAX model. Housed in a cabinet (PRCAB+) with greater height and depth than PREVIDIA MAX, thanks to their modular architecture they adapt perfectly to all types of installations where the voice evacuation function is required, from the smallest to the most extremely extended. The use of completely sealed function modules guarantees the right protection for the electronic parts and allows you to add to the system the specific features required for each installation.

Each control panel can comprise a minimum of one up to a maximum of four cabinets and is capable of managing up to 32 IFM or IFAM modules. The control panels can be used individually or interconnected in a network. Network connection can be done through HORNET+ technology (BUS RS485), IDANET technology (Ethernet cable or fibre), through TCP-IP connection or using a combination of these. Thanks to its distributed intelligence structure that uses a microprocessor inside each module, redundant microprocessors in the main unit and the possibility of having backup CPU units, Previdia ULTRAVOX guarantees unparalleled reliability. The security of the system is no longer entrusted to a single processing unit but to a group of interconnected CPUs that operate in synergy to provide prompt and effective response at all times.

## PREVIDIA ULTRAVOX

Basic control panel with fire detection and voice evacuation functions, to which the FPM, FPAM, IFM and IFAM function modules can be added. The cabinet, model PRCAB+, is complete with plastic door and niche for housing the PTT microphone and emergency telephone.

Includes:
N ° 1 FPMCPU module - Control panel with display for fire detection and alarm functions
N ° 1 FPAMIAS module - Control panel with display for Voice evac and public address functions
N ° 1 IFAMPSU- 1000W power supply module with battery charger
N ° 1 IFAMEVAC - Audio matrix module for signal processing
N ° 1 IFAMAMP - 250W amplifier module
N ° 1 IFM2L - Module 2 Loops
N ° 1 PTT microphone

## PREVIDIA ULTRA

Basic control panel with only fire detection functions to which the FPM, FPAM, IFM and IFAM function modules can be added. The cabinet, model PRCAB+, has no plastic door or niche for housing the PTT microphone and emergency telephone.

Includes:
N ° 1 FPMCPU module - Control panel with display for fire detection and alarm functions
N ° 1 IFAMPSU - 1000W power supply module with battery charger
N ° 1 IFM2L - Module 2 Loop

## PREVIDIA VOX

Basic control panel with only voice evacuation functions to which the function modules FPM, FPAM, IFM and IFAM can be added. The cabinet, PRCAB+ model, is complete with plastic door and niche for housing the PTT microphone and emergency telephone.

Includes:
N ° 1 FPAMIAS module - Control panel with display for Voice evac and public address functions
N ° 1 IFAMPSU- 1000W power-supply module with battery charger
N ° 1 IFAMEVAC - Audio matrix module for signal processing
N ° 1 IFAMAMP - 250W amplifier module
N ° 1 PTT microphone

# The optional modules

## FPAM modules (Front Panel Audio Module)

are compatible with PREVIDIA ULTRAVOX control panels, they must be housed on the front of the cabinets, maximum two for each cabinet.

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### FPAMIAS

Main control unit cabinet for the voice EVAC functions. It connects to the CANDRIVE+ bar in the metal cabinets and is equipped with a colour graphic display with touchscreen. It deals with the management and coordination of the various function modules assigned to it. A single Previdia Ultravox control panel can house only one of these units. It must be inserted in the front panel and connected to the CANDRIVE+ bar if housed in the upper slot, or to the FPM module housed in the upper slot if housed in the lower slot.

## IFAM modules (Internal Fire Audio Module)

Must be inserted on the CAN DRIVE + bar present in the interior of PREVIDIA ULTRAVOX cabinets (max 8 IFAM modules for each cabinet) depending on the required functions.

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### IFAMPSU

1000W switching power-supply module. It connects to the mains and supplies the system with a maximum current of 40A. It also houses a 3A charger capable of keeping two 17Ah, 24Ah or 40Ah batteries under charge. It also houses 2 supervised outputs and a configurable relay output (factory configured as alarm output, AUX output and fault signaling relay). Accepts input voltages 230Vac or 115Vac 50/60Hz. Only one power supply module can be housed inside each metal cabinet. Each control panel manages a maximum of 4 power supply modules (one for each possible cabinet).

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### IFAMEVAC

Audio matrix module, takes care of the digital processing of all audio sources. It has 2 analogue inputs for external sound sources (MUSIC1 and MUSIC 2), 2 analogue inputs for external sound sources with priority request (AUX1 and AUX2), internal flash memory containing emergency messages and user-definable messages, SD Card slot for user-defined audio files, N ° 2 lines for standard or emergency microphone bases (max 64 per line). Connection to the Ethernet network for interaction with IASS and IAS-APP servers.
Each control panel manages only one IFAMEVAC module.

**NEW**
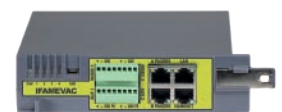
## IFAMAMP

250W audio amplifier module, has two lines for speaker connection configurable in A/B mode or in Loop mode, each line individually protected against short circuit. Speaker line impedance supervised by high frequency tone. It includes an analogue input for an audio source with adjustable priority intended for the amplifier line only. Automatic management of any backup amplifier included in the cabinet. Each control panel manages a maximum of 30 IFAMAMP modules (maximum 8 for each cabinet).

## IFAMFFT

Module for managing emergency telephones, provides 4 lines for connecting emergency telephones (MAX 64 for each Line), by lifting one of the telephones connected to the lines, the request for a conversation is notified on the front panel, the conversation can be accepted by operating on the display and it is possible to create a chat with up to 4 incoming calls. Each control panel manages a maximum of 4 IFAMFFT modules.

## IFAMIDANET

Module for IDANET network connection of PREVIDIA ULTRAVOX control panels. It has two RJ45 sockets for connection via CAT5 Ethernet cable (for distances up to 100m) and two sockets for housing SFP modules for fibre optic connection. It allows the connection of up to 48 control panels and the sharing, as well as all the system information, up to a maximum of 20 audio tracks.

## Microphone bases

The microphone bases can be connected to the IFAMEVAC module via FTP CAT6 cable on the two dedicated lines. They are available in standard or emergency models.

## IPG12

Microphone base for public address announcements, equipped with 12 configurable buttons for zone or audio source selection, allows you to broadcast voice announcements or recall audio files to be played on the selected zones. Complete with Gooseneck microphone, speech filter that can be enabled during configuration. Powered by the connection line with the IFAMEVAC module or by an optional local power supply.

## IPG24

Microphone base for public address announcements, equipped with 24 configurable buttons for zone or audio source selection, allows you to broadcast voice announcements or recall audio files to be played on selected zones. Complete with Gooseneck microphone, speech filter that can be enabled during configuration. Powered by the connection line with the IFAMEVAC module or by an optional local power supply.

## IPGE06

Emergency microphone base, for voice announcements both in normal conditions and during evacuation control, equipped with 6 configurable buttons for zone selection, reports the status of the associated zones, allows the activation of alert and evacuation conditions and the diffusion of announcements on each of the associated zones. Complete with Gooseneck microphone that can be replaced with a separately sold PTT microphone, speech filter that can be enabled during configuration. Powered by the connection line with the IFAMEVAC module or by an optional local power supply (which must be EN54-4 certified).

## IPGE18

Emergency microphone base, for voice announcements both in normal conditions and during evacuation management, equipped with 18 configurable buttons for zone selection, reports the status of the associated zones, allows the activation of warning and evacuation conditions and the diffusion of announcements on each of the associated zones. Complete with Gooseneck microphone that can be replaced with a separately sold PTT microphone, speech filter that can be enabled during configuration. Powered by the connection line with the IFAMEVAC module or by an optional local power supply (which must be EN54-4 certified).

## The accessories

## PRCAB+

Additional cabinet complete with door, CAN DRIVE+ bar for connecting functional modules and battery shelves. There are two slots on the front in which two FPM modules are inserted (if no particular functions are required, two blind FPMNUL modules can be used). The cabinet is supplied without the niche for the housing the PTT microphone.

**PRCAB+R**: Same as PRCAB+ but in red.

## PRCABRK+

Bracket for fixing the cabinet PRCAB+to a 19" rack.

## FTLF1217P2BLT

SFP module for multimode optical fiber connection, 200Mb/S SX+ 1310nm LC DDM MMF.
Maximum point-to-point connection distance: 2km

IPG-GOOSENECK
Flexible gooseneck microphone stem, for use with microphone bases.

## IPG-GOOSENECK

Flexible gooseneck microphone stem, for use with microphone bases. XLR connector.

**NEW**

## IPG-PTT

PTT microphone for use on the front panel or with microphone bases. XLR connector.

## IPGECAB

Metal cabinet in red with lock for housing the emergency microphone bases model IPGE06 and IPGE18. It also allows the housing of an optional IPS24060G model power supply.

## IPS24024DT

24V local power supply for NON emergency microphone bases.

## IFFT-PHONE

Emergency telephone handset with 6.3mm JACK connector. Compatible with the front panel of PREVIDIA ULTRAVOX control panels or with the IFFT-SOCKET jack connector.

## IFFT-SOCKET

Jack socket for connecting the emergency telephone.

## IAS-EOL1000

End of line for speaker line, necessary only for those speaker lines with total power less than 20W. To be housed in the last speaker of the line.

## IAS-ISOL1000

Isolator module for 100V speaker line, to be used in the case of a ring configuration.

## IAS-ADAPT1000

Module for adapting and decoupling audio signals input to the PREVIDIA ULTRAVOX control panel (on analogue inputs of the IFAMEVAC or IFAMAMP module). Input for 1VRMS, 70 VRMS, 100 VRMS signals. 20KHZ filter included.

# Speaker

The Inim Electronics range of speakers, certified EN54-24 for applications in voice evacuation systems, are compatible with 100V RMS lines. They are characterized by attracctive design, high quality and reliability, offering solutions for different types of installation.

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## SPI-C56100

**Model:** 5" ceiling speaker
**Assembly:** flush mount to ceiling
**Material:** metal

**Dimensions:** ceiling hole Ø180mm, Ø200 × 63mm
**Power:** 1,5/3/6w
**Colour:** white

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## SPI-C66100

**Model:** 6" ceiling speaker
**Assembly:** flush mount to ceiling
**Material:** metal

**Dimensions:** ceiling hole Ø166mm, Ø200 × 87mm
**Power:** 1,5/3/6w
**Colour:** white

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## SPI-C810100

**Model:** 8" ceiling speaker
**Assembly:** flush mount to ceiling
**Material:** metal

**Dimensions:** ceiling hole Ø230mm, Ø265 × 108mm
**Power:** 2,5/5/10W
**Colour:** white

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## SPI-W56100

**Model:** 5" wall speaker
**Assembly:** surface or flush mount to wall
**Material:** metal

**Dimensions:** 185x185x73mm
**Power:** 1,3/3/6W
**Colour:** white

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## SPI-W420200

**Model:** 4" wall speaker + 1" tweeter
**Assembly:** wall mount with adjustable bracket
**Material:** plastic

**Dimensions:** 245x170x140 mm
**Power:** 2,5/5/10/20W
**Colour:** black

**NEW**

## SPI-W520200

**Model:** 5" wall speaker + 1" tweeter
**Assembly:** wall mount with adjustable bracket
**Material:** plastic

**Dimensions:** 295x180x170 mm
**Power:** 7,5/15/30W
**Colour:** black

## SPI-W640200

**Model:** 6.5" wall speaker + 1.5" tweeter
**Assembly:** wall mount with adjustable bracket
**Material:** plastic

**Dimensions:** 330x200x205mm
**Power:** 5/10/20/40W
**Colour:** black

## SPI-P620100

**Model:** 6.5" acoustic projector
**Assembly:** wall mount with adjustable bracket
**Material:** plastic

**Dimensions:** Ø170 x 245 mm
**Power:** 5/10/20W
**Colour:** white

## SPI-P620110

**Model:** 6.5" acoustic projector
**Assembly:** wall mount with adjustable bracket
**Material:** aluminium

**Dimensions:** Ø170 x 252 mm
**Power:** 5/10/20W
**Colour:** white

## SPI-DP40110

**Model:** 6.5" two-way double acoustic projector
**Assembly:** wall mount with adjustable bracket
**Material:** aluminium

**Dimensions:** Ø170 x 252 mm
**Power:** 5/10/20W
**Colour:** white

## SPI–CP620100

**Model:** 6.5" acoustic projector
**Assembly:** pendant
**Material:** plastic

**Dimensions:** Ø170 x 245 mm
**Power:** 5/10/20W
**Colour:** white

## SPI–P620110

**Model:** 6.5" acoustic projector
**Assembly:** pendant
**Material:** plastic

**Dimensions:** Ø170 x 252 mm
**Power:** 5/10/20W
**Colour:** white

## SPI–H2215100

**Model:** Trumpet
**Assembly:** with adjustable bracket
**Material:** plastic

**Dimensions:** 225x162x237 mm
**Power:** 1,5/3/7.5/15W
**Colour:** grey

## SPI–H2830100

**Model:** Trumpet
**Assembly:** with adjustable bracket
**Material:** plastic

**Dimensions:** 285x205x280 mm
**Power:** 3/7.5/15/30W
**Colour:** grey