

IVO COMPACT

PUBLIC ADDRESS AND VOICE ALARM SYSTEM

FEATURES

- EN54-16 certified
- A fully equipped VACIE system
- Plug & Play
- Up to 16 single Class B or 8 Class A/B lines
- Up to 8 Class A lines
- Maximum 500 W or 125 W power load per line depending on version
- Maximum 1000 W power load per unit
- Phase evacuation with separate redundant amplifier
- Main processor with secondary bypass processor
- Real-time system monitoring
- 32-bit DSP audio processor
- Up to 32 subsystems in network
- Wide frequency response
- CD quality Audio
- Ultra-low quiescent mode
- Modbus for 3rd party integration
- 12 monitored control inputs
- 2 output relays
- Build-in operating buttons
- Programmable emergency and functional buttons
- Built-in LCD screen
- Built-in monitoring loudspeaker
- Built-in handheld alarm microphone
- 4 slots for additional system cards
- Diagnostic USB port
- Compatible with the flagship IVO rack system


EN54 16


Certificate of constancy of performance 1438-CPR-0985
Certificate of admittance 5266/2024

OVERVIEW

IVO Compact is a wall-mounted PAVA system designed for small to medium-sized facilities. It offers a true Plug & Play experience – preconfigured and ready to operate immediately after installation.

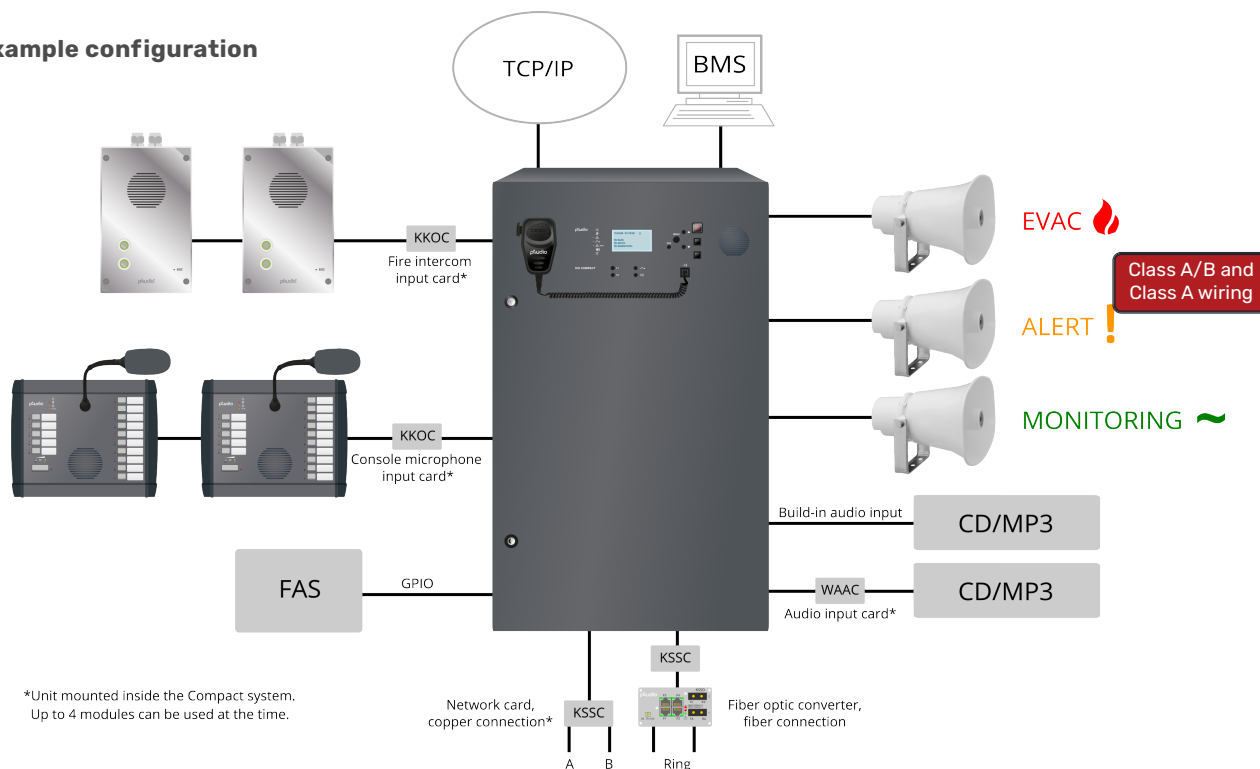
The system supports full-phase evacuation with two simultaneous audio streams and up to 16 loudspeaker lines, delivering a total power output of up to 1000 W. It matches the functionality of classic rack-based voice alarm systems while significantly reducing overall system cost.

The built-in emergency power supply provides up to 24 hours of standby time and 30 minutes of alarm operation. Both times can be extended by adding an external enclosure with higher-capacity batteries.

IVO Compact is fully compatible with the flagship IVO rack system, sharing the same range of console microphones and intercom units, and can be networked with other IVO PAVA systems.

The standard version can be expanded with additional modules (KKOC, WAAC, KSSC) to meet specific project requirements.

Example configuration



TECHNICAL SPECIFICATION

GENERAL

Power supply	230 V AC, -15 % / +10 %
Total efficiency	> 86 %
Idle consumption	< 5 W
Standards	EN54, CE
Mechanical	200 x 530 x 930 mm
Battery enclosure	200 x 530 x 200 mm (optional)
Operating temp.	-5 : +50 °C
Relative humidity	25 % - 90 %
Indicators	Power, Alarm, Fault, Bypass, CPU fault, Disablement, Test
Connectors	Main supply 230 V AC, 12x control inputs, 3x relay outputs, 1x RS232/485, 1x RS485, 1x Ethernet, 1x USB Type B, 1x symmetrical audio input

AUDIO SPECIFICATION

Frequency response	10 Hz - 30 kHz (- 3 dB)
Distortion (THD + N) (1 kHz)	< 0,1 %
Signal-to-noise ratio	> 86 dB
Digital audio format	PCM 16-bit / 48 kHz

OTHERS

3rd party integration	1x RS232 / RS485 (Modbus)
Maintenance	1x USB, 1x Ethernet
Log event buffer	2048
Enclosure type	Metal, IP30
Max. battery capacity	Depends on the power supply
Extensions	KKOC microphone input card , WAAC audio input card , KSSC network card

IVO COMPACT PAVA PANEL

1- CHANNEL SYSTEM, 500 W RMS - IVO COMPACT MODEL

C-04-500-1	4 lines (or 2 loops) - (4x500 W)*, handheld microphone, redundant/monitoring amplifier (IVO C0, UIC, MR, 4SGC, 2x WB501, power supply + battery charger, wall-mount housing)
C-08-500-1	8 lines (or 4 loops) - (8x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C8, UIC, MR, 2x WB501, power supply + battery charger, wall-mount housing)
C-12-500-1	12 lines (or 6 loops) - (4x500 W, 8x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C8, UIC, MR, 4SGC, 2x WB501, power supply + battery charger, wall-mount housing)
C-16-500-1	16 lines (or 8 loops) - (16x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C8, UIC, MR, 8SGC, 2x WB501, power supply + battery charger, metal wall-mount casing)

1-CHANNEL SYSTEM, 1000 W RMS - IVO COMPACT MODEL

C-04-1000-1	4 lines (or 2 loops) - (4x500 W)*, handheld microphone, redundant/monitoring amplifier (IVO C0, UIC, MR, 4SGC, 3x WB501, power supply + battery charger, wall-mount housing)
C-08-1000-1	8 lines (or 4 loops) - (8x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C0, UIC, MR, 8SGC, 3x WB501, power supply + battery charger, wall-mount housing)
C-12-1000-1	12 lines (or 6 loops) - (4x500 W, 8x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C8, UIC, MR, 4SGC, 3x WB501, power supply + battery charger, wall-mount housing)
C-16-1000-1	16 lines (or 8 loops) - (16x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C8, UIC, MR, 8SGC, 3x WB501, power supply + battery charger, metal wall-mount casing)

2-CHANNEL SYSTEM, 500 W RMS - IVO COMPACT MODEL

C-04-500-2	4 lines (or 2 loops) - (4x500 W)*, handheld microphone, redundant/monitoring amplifier (IVO C0, UIC, MR, 4SGC, 3x WB501, power supply + battery charger, wall-mount housing)
C-08-500-2	8 lines (or 4 loops) - (8x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C0, UIC, MR, 8SGC, 3x WB501, power supply + battery charger, wall-mount housing)
C-12-500-2	12 lines (or 6 loops) - (4x500 W, 8x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C8, UIC, MR, 4SGC, 3x WB501, power supply + battery charger, wall-mount housing)
C-16-500-2	16 lines (or 8 loops) - (16x125 W)*, handheld microphone, redundant/monitoring amplifier (IVO C8, UIC, MR, 8SGC, 3x WB501, power supply + battery charger, metal wall-mount casing)

* Maximum load per loudspeaker line or loop

KKOC - CONSOLE MICROPHONE CARD

KKOC card allows to connect alarm (MA, MAR), paging (MI) console microphones and fire intercoms (INT) to IVO Compact.

FEATURES

- Support of up to 8 microphone consoles or 8 intercoms
- 32-bit DSP audio processor
- Digital communication
- Maximum cable length 1200 m (RS485)
- Optional redundant fiber connection with alarm microphones
- Wide frequency response
- Ultra-low quiescent mode
- Direct power supply of connected units (copper connection)
- Overvoltage, overcurrent and short circuit protection



WAAC - AUDIO INPUT CARD

WAAC card allows to connect any kind of analog audio sources and background measurement microphones (MPT) to the IVO Compact.

FEATURES

- Symmetrical 0 dB input
- Phantom power
- 32-bit DSP audio processor
- Wide frequency response
- Ultra-low quiescent mode



KSSC - NETWORK CARD

The KSSC card allows to link and communicate IVO Compact with any other IVO system.

FEATURES

- Up to 32 subsystems in network
- Redundancy of transmission path
- No significant audio signal delays between subsystems
- Full synchronization of messages between main units
- Galvanic isolated circuits
- Digital communication
- Maximum cable length between subsystems 1200 m (RS485)
- Point-point, multi-point or ring configuration
- Ultra-low quiescent mode
- Overvoltage, overcurrent and short circuit protection



CONSOLE MICROPHONES - MA10 ÷ MA150

MA10	Emergency gooseneck microphone, 5+10 buttons, build-in speaker, digital communication, 24/48 V DC, ALU
MA20	Emergency gooseneck microphone, 5+20 buttons, build-in speaker, digital communication, 24/48 V DC, ALU
MA30	Emergency gooseneck microphone, 5+30 buttons, build-in speaker, digital communication, 24/48 V DC, ALU
MA40	Emergency gooseneck microphone, 5+40 buttons, build-in speaker, digital communication, 24/48 V DC, ALU

CONSOLE MICROPHONES - MAR10 ÷ MAR150

MAR10	Emergency handheld PTT microphone, 5+10 buttons, build-in speaker, digital communication, 24/48 V DC, wall installation
MAR20	Emergency handheld PTT microphone, 5+20 buttons, build-in speaker, digital communication, 24/48 V DC, wall installation
MAR30	Emergency handheld PTT microphone, 5+30 buttons, build-in speaker, digital communication, 24/48 V DC, wall installation
MAR40	Emergency handheld PTT microphone, 5+40 buttons, build-in speaker, digital communication, 24/48 V DC, wall installation

CONSOLE MICROPHONES - MAR10K ÷ MAR40K

MAR10K	MAR10 emergency microphone in metal housing, IP30
MAR20K	MAR20 emergency microphone in metal housing, IP30
MAR30K	MAR30 emergency microphone in metal housing, IP30
MAR40K	MAR40 emergency microphone in metal housing, IP30

CONSOLE MICROPHONES - MAR10KR ÷ MAR20KR

MAR10KR	MAR10 emergency microphone, metal housing, IP30, redundant fiber digital communication, 24 V DC/7 Ah power supply
MAR20KR	MAR20 emergency microphone, metal housing, IP30, redundant fiber digital communication, 24 V DC/7 Ah power supply

CONSOLE MICROPHONES - MI10 ÷ MI150

MI10	Paging gooseneck microphone console, 5+10 buttons, build-in speaker, digital communication, 24/48 V DC
MI20	Paging gooseneck microphone console, 5+20 buttons, build-in speaker, digital communication, 24/48 V DC
MI30	Paging gooseneck microphone console, 5+30 buttons, build-in speaker, digital communication, 24/48 V DC
MI40	Paging gooseneck microphone console, 5+40 buttons, build-in speaker, digital communication, 24/48 V DC

FIRE INTERCOMS - INT2 ÷ 5

INT2P	Fire intercom, flush installation, 2 backlit buttons, digital communication, 24/48 V DC
INT2N	Fire intercom, surface installation, 2 backlit buttons, digital communication, 24/48 V DC

ACCESORIES

PP	Cable connection ABS box unit for microphones consoles connection
MPT	Background noise microphone for automatic gain control, ABS
KSS024	Network or emergency redundant microphone fiber optic module, ring connection, max distance 20 km, 24 V DC, DIN (TS35)

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