



IP Intercom System

Stay connected, stay safe

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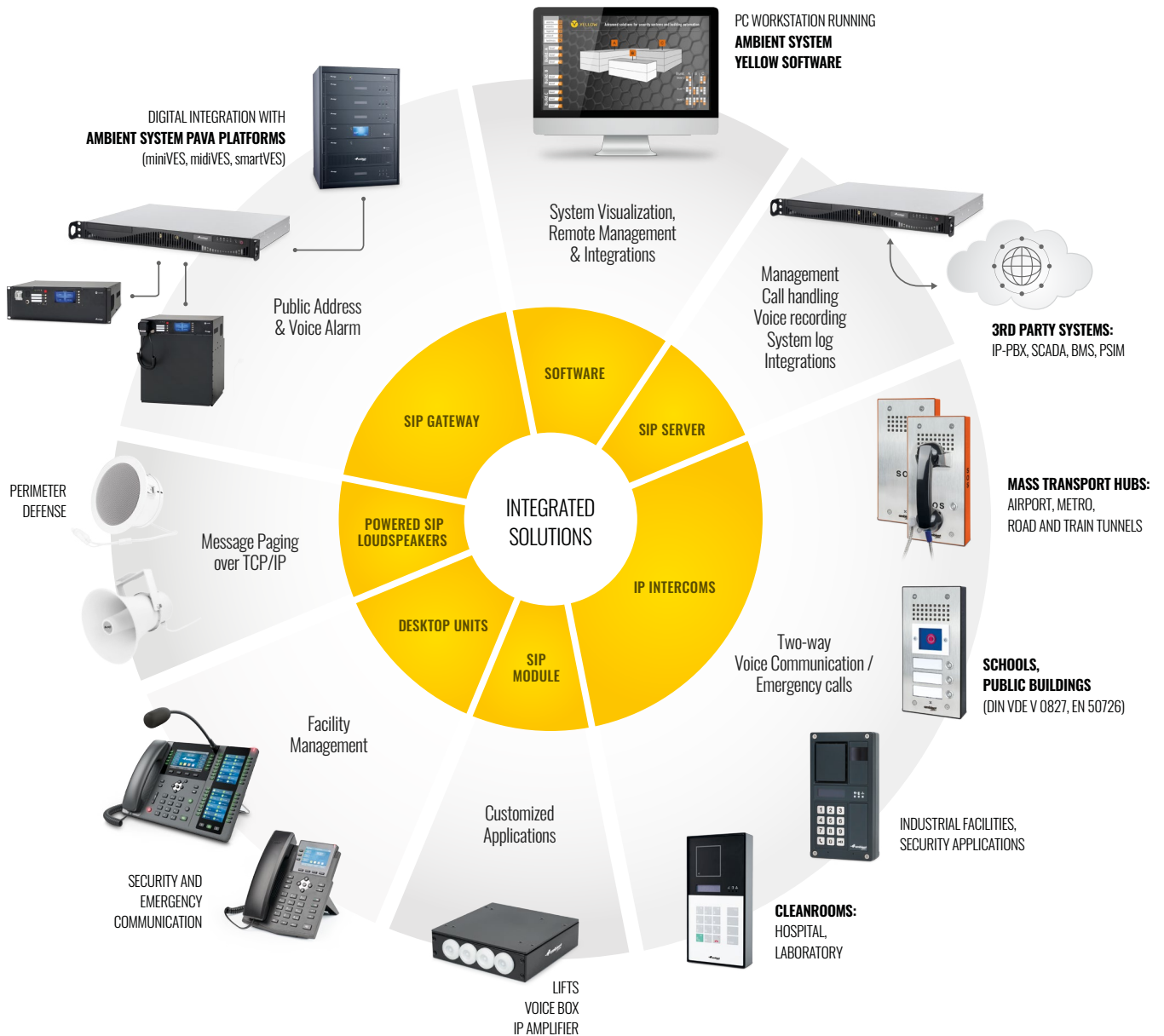
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IP Intercom System



The IP Intercom System is a modern and reliable tool for voice communication. Intercom integrated with the building's security systems enable the streamlining of information

flow and a reduction in response time to events. As a key element of communication and security, the system monitors the operational status of connected intercoms, logs

system events, and enables audio recording, ensuring comprehensive operational support.



System Functions



Enables natural, two-way conversations, including conference calls, intelligent forwarding and other advanced telecommunication functions.



Acoustic monitoring of the speaker-microphone path. The functional test involves the intercom emitting a specific test signal that must be correctly received by its microphone.



Enables remote control of secure access by the intercom relay via remote code.



Continuous monitoring of connected intercoms, distinguishing between their active status, idle state, and any potential malfunctions.



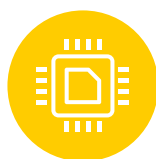
Enables broadcasting voice messages to all intercoms, selected groups, or individual devices. Messages can be delivered live by the user or played back from the system's memory.



The server maintains a detailed log of system operations. Additionally, for enhanced security and to facilitate the later analysis of events, there is an option to record the content of conversations.



Extensive capabilities of integration with visualization and management systems (SCADA, PSIM, BMS, etc.) via SNMP and REST API protocols (with the option of direct connection to the intercom).



Digital signal processing algorithms ensure high speech intelligibility even in challenging acoustic environments (reverberation, noise). This includes features such as automatic volume control, echo cancellation, and noise reduction.

ISE CORE

INTERCOM SERVER



The ISE CORE server is an advanced communication platform that ensures reliability, performance, and extensive integration capabilities. The system offers the possibility of flexible expansion with advanced functionalities that can be activated at any time. To ensure business continuity, the server provides a redundancy option, both at the platform level (cooperation of two servers)

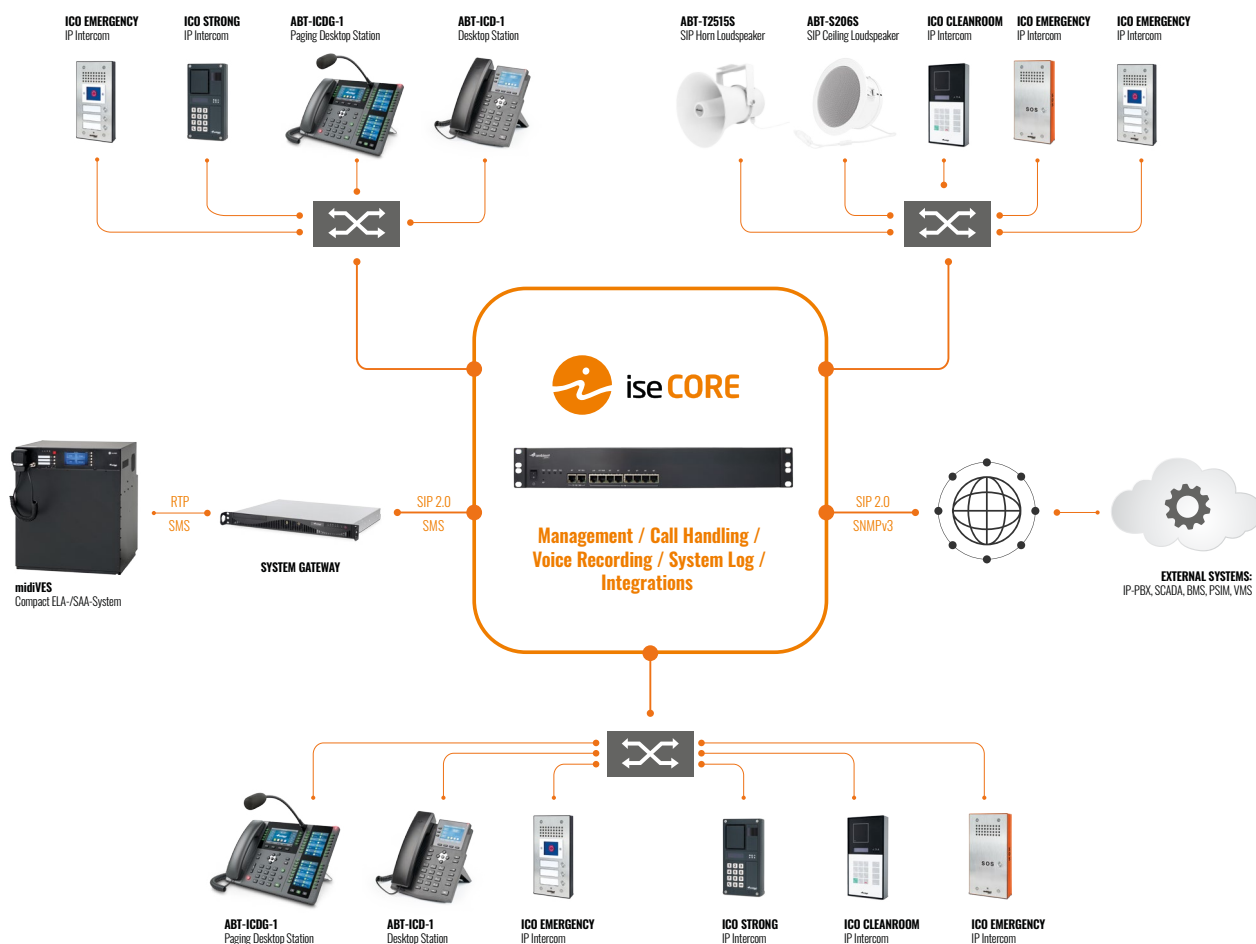
and power redundancy through a built-in battery backup module. Communication is fully encrypted, protecting data from unauthorized access. The system can also be programmed and administered remotely via a web browser.

CHARACTERISTICS

- » **System Capacity:** The platform supports up to 1000 users and up to 100 simultaneous calls, depending on the license.
- » **Networking:** It is possible to network with other Ambient System intercom systems.
- » **Call Recording:** The function of recording voice channels is available and scalable depending on needs.
- » **Compliance with Standards:** The system meets a number of safety and compatibility standards:
 - › EN 60950-1:2006+A11:2009 +A1:2010+A12:2011+A2:2013
 - › EN 55024:2011
 - › EN 55032:2015
 - › EN 61000-3-2:2014
 - › EN 61000-3-3:2013

ADDITIONAL SERVICES	Description
CoreTTS100	Text-to-speech service for 100 voice announcements within one year from the date of purchase.
CoreTTS1k	Text-to-speech service for 1000 voice announcements within one year from the date of purchase.
CoreUpgSSD	SSD-1TB installation service performed by the factory service center.

	ISE CORE
Physical Parameters	
Min / Max Power Consumption, W	22 / 75
Housing	19" (1.5U x 360 mm)
Power Supply Voltage	~230V, 50Hz
Emergency Battery Power	from 12V/17-100 Ah batteries



LICENSES	Description
Core200	Base license for launching up to 200 users, including up to 40 simultaneous voice calls.
Core1k	Base license for launching up to 1000 accounts, including up to 100 simultaneous voice calls.
CoreRec-1	License enabling the recording of 1 voice channel.
CoreRec-5	License enabling the recording of 5 simultaneous voice calls.
CoreConf-5	License for 5 simultaneous conference participants.
CoreConf-15	License for 15 simultaneous conference participants.
CoreUser-1	License for 1 user.
CoreUser-10	License for 10 users.
CoreUser-100	License for 100 users.
CoreUserVideo-1	License for 1 user with video calls.
CoreUserVideo-5	License for 5 users with video calls.
CoreRedundancy200	License enabling server redundancy with a Core200 license. Requires the use of an additional ISE CORE server.
CoreRedundancy1k	License enabling server redundancy with a Core1k license. Requires the use of an additional ISE CORE server.

ISE VES SYSTEM GATEWAY

SYSTEM GATEWAY



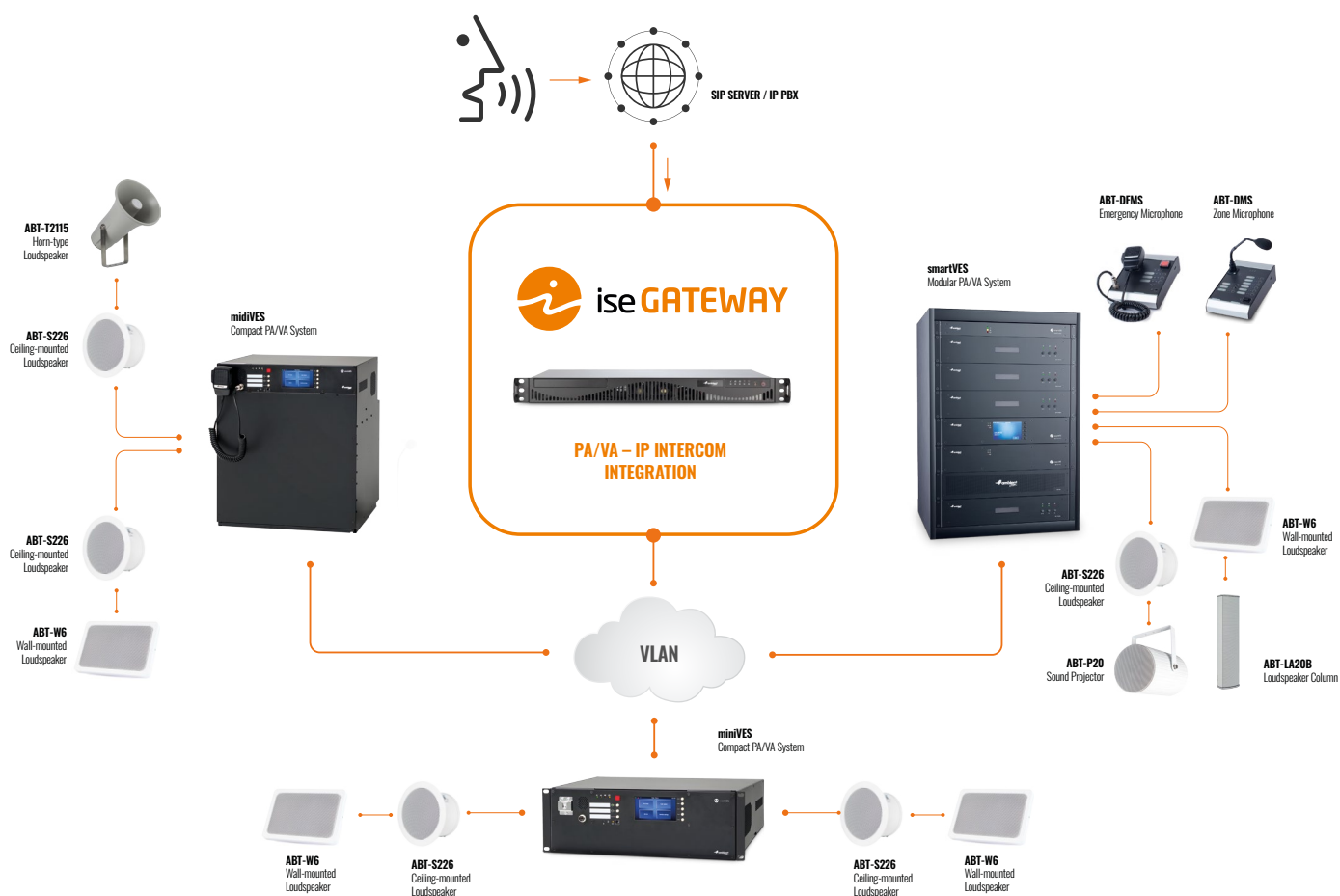
ISE VES SYSTEM GATEWAY is a PAVA exchange server with SIP access functionality. The server enables the integration of distributed PAVA systems into an extensive audio network. It also allows for the integration of said systems with IP telephony systems in the digital domain, utilizing the SIP Trunk feature. ISE VES SYSTEM GATEWAY supports up to 8 simultaneous SIP calls into the PAVA network, allowing these calls to be routed to selected zones. The server has an incoming

call recording functionality for subsequent analysis. It also features a message player and scheduler, manageable through an intuitive browser interface secured against unauthorized access. Both voice messages and other broadcast functions of the server can be controlled remotely.

CHARACTERISTICS

- » **Digital integration of VoIP and PAVA systems**
- » **Digital voice announcer with scheduler**
- » **Management via an easy-to-use browser interface**

	ISE VES SYSTEM GATEWAY
Procesor	Intel Xeon
Chipset	Intel
Operating memory	1 × 8 GB
Hard drive	1 × 240 GB SSD
Network	2 × Intel i210 AT Gigabit LAN
Ports	2 × USB 2.0 / 2 × USB 3.0 / 2 × 1 Gbit/s
Dimensions	43 mm (1U) × 437 mm × 290 mm
Operating system	Linux
Power supply	230 V AC or 48 V DC



ISE VES SYSTEM GATEWAY functionality defined within the licensing structure:

LICENSES	Description
SG	Segment License – enables adding connections to Ambient System PAVA subsystem
Z	Zones License – enables the configuration of a broadcast group
SF	Store&Forward License – enables the buffering of messages addressed to busy groups
T	Timer License – enables the creation of an event schedule
P	PBX License – enables the registration of ISE VES SYSTEM GATEWAY in a SIP Proxy
R	Record License – enables the recording of outgoing calls to Ambient System PAVA central units
B	Backup License – enables the configuration of a redundant server
I-APIS	License SYS GW (I-APIS) - APIS server integration

ICO EMERGENCY

IP INTERCOM

- ✓ *Intercom with emergency button*
- ✓ *Compliant with EN 50726-1*
- ✓ *Up to 3 programmable buttons*
- ✓ *Vandal-resistant housing IK08/IP54*
- ✓ *Acoustic monitoring of the speaker-microphone circuit*
- ✓ *DSP functions: noise reduction, echo cancellation, automatic gain control*
- ✓ *Integrations available via SNMP*
- ✓ *Optional RFID reader*


DIN VDE
V 0827

EN
50726

SIP 2.0



ICO EMERGENCY is an emergency intercom designed in compliance with EN 50726-1, ideal for applications requiring rapid notification. The version with a physical emergency button features a red alarm button protected by a break-glass cover. An alternative solution is an RFID reader in place of the emergency button.

The response triggered by RFID or button activation is programmable; it can initiate a call to the system operator, activate system outputs, or automatically play a pre-recorded voice message. These actions can be set as a sequence,

allowing several actions to be performed with a single activation. The intercom additionally offers 1 to 3 programmable buttons, which can be configured for standard call functions. ICO EMERGENCY is equipped with 2 relays and 6 GPIO inputs/outputs, enabling integration with external devices such as light signals, electronic locks, or additional buttons.

ICO EMERGENCY can transmit status information directly to management systems (PSIM, BMS, etc.), bypassing the SIP server, via the SNMP protocol. Voice communication is carried

out in hands-free mode, using advanced digital algorithms that improve sound quality through noise reduction, automatic gain control, and echo cancellation.

ICO EMERGENCY can be powered via standard PoE or using an external DC power supply. The vandal-resistant IP54/IK08-rated housing guarantees reliability in office and school environments. Dedicated mounting accessories enable surface, flush, and drywall (plaster-board) installation.

MODEL	Description
ABT-ICO-EME-B1E	Intercom equipped with a single programmable button
ABT-ICO-EME-B3E	Intercom equipped with three programmable buttons
ABT-ICO-EME-B1RF	Intercom panel with RFID and 1 standard button
ABT-ICO-EME-B3RF	Intercom panel with RFID and 3 standard buttons

	ICO EMERGENCY
Audio	
Speaker	1× built-in speaker, rated power 5W
Amplifier	Class D; 16 W
Microphone	1× MEMS microphone (frequency range 60 Hz – 20 kHz)
Audio outputs	1× balanced line output – nominal level 775 mV RMS
Codecs	PCMU, G722, PCM
Emergency button*	1× red emergency button, behind glass cover
Programmable buttons	1 to 3
RFID*	
Reader operating frequency	13.56 MHz
Supported technologies and transponders	MIFARE® Classic, MIFARE® Plus, MIFARE® Ultralight, MIFARE® DESFire,ICODE® SLI, NFC tags
Regulatory compliance	Full support for standards: ISO/IEC 14443A/B, ISO/IEC 14443-4, ISO 15693
Maximum reading range	3 cm
Interfaces	
Emergency button	1× red emergency button, behind glass cover (B1E and B3E versions)
Programmable button	1 or 3
Ethernet ports	2× Ethernet ports
Relays	2× relay contacts: 30VDC, 1A / 125VAC, 0.3A, max switching voltage 250VAC / 220VDC, max switching power 62.5 VA / 30 W, max load current 2A
GPIO	6× digital input/output: parametric input (2-state); logic output 0–5V, max current 18mA, common reference point
LED driver	12V, 300 Ohm current-limiting resistor
Power supply	
PoE	IEEE 802.3af / class 0, IEEE 802.3at / max 12.95W (RJ45)
DC	12VDC max 24W / 48VDC max 15W
Environmental parameters	
Operating temperature	-40 to +65°C
Relative humidity	10% to 95% (non-condensing)
Mechanical resistance	IK08
IP rating	IP54
Physical parameters	
Dimensions (H × W)	137 × 277 mm
Weight	1500 g
Material	Stainless steel
Accessories	
ABT-IAC-BOX01-PB	Mounting box for modular and drywall (plasterboard) walls
ABT-IAC-BOX01-F	Flush-mount installation box
ABT-IAC-BOX01-W	Surface-mount installation box
ABT-IAC-EME-GLASS	Replacement glass covers for ABT-ICO-EME-B1, ABT-ICO-EME-B3 devices × 10 pcs

ICO EMERGENCY S01/S02

IP INTERCOM FOR TUNNEL APPLICATIONS

- ✓ *Wall-mounted intercom equipped with a handset*
- ✓ *Up to 2 programmable buttons*
- ✓ *Vandal-resistant housing IK10/IP65*
- ✓ *Acoustic monitoring of speaker-microphone path*
- ✓ *DSP functions: noise reduction, echo cancellation, automatic volume control*
- ✓ *Integrations available via SNMP v3*



ICO EMERGENCY S01 and S02 are intercoms specifically designed for applications with very high background noise levels (e.g., ventilation noise, traffic noise). To maximize speech intelligibility, the S02 version is equipped with a handset; lifting it automatically initiates a connection with the operator. The ICO EMERGENCY S01 and S02 housing features high vandal resistance (IK09) and an IP65 protection rating, ensuring reliability in

demanding environmental conditions. Both versions have 2 relays and 6 GPIO inputs/outputs, enabling integration with various external devices such as strobe, electronic locks, and specialized buttons. Additionally, the intercom can autonomously report its status to building management systems (PSIM, BMS, etc.) via the SNMP protocol, without the need to involve the SIP server. This allows for monitoring events such as the opening

of shelter doors, evacuation routes, or the enclosure in which the device is mounted. ICO EMERGENCY S01 and S02 offer flexible mounting options: surface-mounted, flush-mounted, or in drywall constructions. An orange housing variant with 'SOS' markings on the sides is also available, further enhancing its visibility in emergency situations. Both intercoms can be powered via standard PoE or using an external DC power supply.

MODELS	Description
ABT-ICO-EME-S01	Intercom equipped with a single programmable button
ABT-ICO-EME-S02	Intercom equipped with handset, no buttons

ACCESSORIES	Description
ABT-IAC-BOX01-PB	Mounting box for modular and plasterboard walls
ABT-IAC-BOX01-F	Flush-mounting box
ABT-IAC-BOX01-W	Surface-mounting box
ABT-IAC-BOX01-WO	Orange surface-mounted housing with 'SOS' markings

ICO EMERGENCY S01 / S02	
Audio	
Loudspeaker	1 × built-in speaker with rated power of 5W
Amplifier	Class D; 15 W
Microphone	1 × MEMS type (frequency response 60 Hz – 20 kHz)
Handset	1 × handset with flexible cord (S02 variant)
Audio input	1 × balanced line input – nominal level 775 mV RMS
Audio output	1 × balanced line output – nominal level 775 mV RMS
Headphone output	Output power 0.25W, Minimum load impedance 16 Ohm
Codecs	PCMU, G722
Indicators and control	
Programmable button	1 (S01 variant)
Interfaces	
Ethernet ports	2 × Ethernet port
Relays	2 × contactor relay: 30 VDC, 1A / 125 VAC, 0.3A, max switching voltage 250 VAC / 220 VDC, max switching power 62.5 VA / 30 W, max load current 2A 1 × active relay: 12 VDC, max current 100mA
GPIO	6 × digital input/output: parametric input (2-state); logic output 0-5V, current output 18mA, common reference point
LED Driver	12V, current limiting resistor 300 Ohm
Power supply	
PoE	IEEE 802.3af 3af / Class 0, IEEE 802.3at / max. 12.95W (RJ45)
DC	12V / 2A power supply (screw terminal)
Environmental parameters	
Operating Temperature	-40 to +65°C
Relative Humidity	10% to 95% (non-condensation)
Mechanical Resistance	IK10
Dust/water protection	IP65
Physical parameters	
Dimensions (H × W)	137 × 277 mm
Weight	1500 g
Material	Stainless steel

ICO EMERGENCY S03

IP INTERCOM FOR PENITENTIARY FACILITIES

- ✓ *Heavy-duty wall-mounted intercom*
- ✓ *Vandal-resistant housing IK10/IP65*
- ✓ *2 programmable buttons*
- ✓ *4 auxiliary buttons*
- ✓ *Acoustic monitoring of speaker-microphone path*
- ✓ *DSP functions: noise reduction, echo cancellation, automatic volume control*
- ✓ *Integrations available via SNMP v3*



SIP 2.0



ICO EMERGENCY S03 is an intercom dedicated to penitentiary facility applications, where there is a need for increased mechanical resistance and necessity to integrate additional functionalities, such as operating window opening mechanisms, controlling lighting, or managing the public address system. The ICO EMERGENCY S03 housing features high vandal resistance (IK10) and an IP65 protection rating, ensuring reliability in demanding environmental conditions.

It is designed for flush mounting using the dedicated mounting box ABT-IAC-BOX01-F. The front panel of the ICO EMERGENCY S03 is equipped with 2 quick dial buttons and a group of 4 auxiliary buttons. Two buttons are used to operate the integrated multicast radio receiver. The remaining two buttons enable the control of external devices such as the window operator and room lighting. ICO EMERGENCY S03 has 3 relays and 6 GPIO inputs/outputs, enabling integration with

various external devices such as strobe, electronic locks, and specialized buttons. Moreover, ICO EMERGENCY S03 can autonomously transmit information about its status and the status of the aforementioned relays and GPIOs to building management systems (PSIM, BMS, etc.) directly, bypassing the SIP server, using the SNMP protocol. ICO EMERGENCY S03 can be powered via standard PoE or using an external DC power supply.

MODELS	Description
ABT-ICO-EME-S03	Intercom dedicated to penitentiary applications
ACCESSORIES	Description
ABT-IAC-BOX01-F	Flush-mounting box

	ICO EMERGENCY S03
Audio	
Loudspeaker	1 × built-in speaker with rated power of 5W
Amplifier	Class D; 15 W @4 Ohm (1% THD+N)
Microphone	1 × MEMS type (frequency response 60 Hz – 20 kHz)
Audio input	1 × balanced line input – nominal level 775 mV RMS
Audio output	1 × balanced line output – nominal level 775 mV RMS
Headphone output	Output power 0.25W, Minimum load impedance 16 Ohm
Codecs	Speex, iLBC, GSM, PCMU, G722, Opus, G729, L16
Indicators and control	
Quick dial button	× 2
Volume control	2 × (VOL+, VOL-)
I/O (Input/Output)	
Number of terminals	6 pcs of programmable terminals, each can be input/output or LED driver
Digital input	Self-polarized 2 state logical input with hysteresis for resistance defined source, two 4k7 series resistors for LOW state and one 4k7 resistor for HIGH state. OPEN and SHORT states also supported.
Digital output	0-5V, current 18mA, overvoltage and reverse current protected -0.7...5.5V, common reference ground
LED driver	source series resistance 300R
Power supply	
PoE	IEEE 802.3af / Class 0, IEEE 802.3at / max. 12.95W (RJ45)
DC	12V / 2A power supply (screw terminal)
Environmental parameters	
Operating Temperature	-40 to +65°C
Relative Humidity	10% to 95% (non-condensation)
Mechanical Resistance	IK10
Dust/water protection	IP65
Physical parameters	
Dimensions (H × W)	137 × 277 mm
Weight	1500 g
Material	Stainless steel

ICO FRONTIER

IP INTERCOM

- ✓ *Basic wall-mounted intercom*
- ✓ *Up to 3 programmable buttons*
- ✓ *Vandal-resistant housing IK08/IP54*
- ✓ *Acoustic monitoring of speaker-microphone path*
- ✓ *DSP functions: noise reduction, echo cancellation, automatic volume control*
- ✓ *Integrations available via SNMP v3*



ICO FRONTIER is a basic intercom type equipped with 1 to 3 programmable buttons used for call functions. It provides high-quality, hands-free voice communication thanks to advanced digital algorithms such as noise reduction, automatic volume control, and echo cancellation. ICO FRONTIER is equipped with 3 relays and 6 GPIO inputs/outputs,

which enables easy integration with various external devices, such as strobes, electronic locks, and external buttons. Moreover, ICO FRONTIER can autonomously report its status to building management systems (PSIM, BMS, etc.) using the SNMP protocol, without the need to involve the SIP server. The robust, vandal-resistant housing with an

IP54/IK08 rating guarantees reliable operation in various environmental conditions. Dedicated mounting accessories allow for flexible surface, flush, or drywall installation. ICO FRONTIER can be powered via standard PoE or using an external DC power supply.

MODELS	Description
ABT-ICO-FRO-B1E	Intercom equipped with a single programmable button
ABT-ICO-FRO-B3E	Intercom equipped with three programmable buttons

ACCESSORIES	Description
ABT-IAC-BOX01-PB	Mounting box for modular and plasterboard walls
ABT-IAC-BOX01-F	Flush-mounting box
ABT-IAC-BOX01-W	Surface-mounting box

	ICO FRONTIER
Audio	
Loudspeaker	1 × built-in speaker with rated power of 5W
Amplifier	Class D; 15 W
Microphone	1 × MEMS type (frequency response 60 Hz – 20 kHz)
Audio input	1 × balanced line input – nominal level 775 mV RMS
Audio output	1 × balanced line output – nominal level 775 mV RMS
Headphone output	Output power 0,25W, Minimum load impedance 16 Ohm
Codecs	Speex, iLBC, GSM, PCMU, G722, Opus, G729, L16
Indicators and control	
Programmable button	1 or 3
Interfaces	
Ethernet ports	2 × Ethernet ports
Relays	2 × make contact input: 30 VDC, 1A / 125 VAC, 0.3A, max. switching voltage 250 VAC / 220 VDC, max. switching power 62.5 VA / 30 W, max. load current 2A
GPIO	6 × digital input/output: parametric input (2-state); logic output 0-5V, current output 18mA, common reference point
LED Driver	12V, current limiting resistor 300 Ohm
Power supply	
PoE	IEEE 802.3af / Class 0, IEEE 802.3at / max. 12.95W (RJ45)
DC	12V / 2A power supply (screw terminal)
Environmental parameters	
Operating Temperature	-40 to +65°C
Relative Humidity	10% to 95% (non-condensation)
Mechanical Resistance	IK08
Dust/water protection	IP54
Physical parameters	
Dimensions (H × W)	137 × 277 mm
Weight	1500 g
Material	Stainless steel

ICO CLEANROOM

IP INTERCOM FOR CLEANROOM APPLICATIONS

- ✓ *Intercom for clean rooms*
- ✓ *Antibacterial, chemical-resistant protective coating*
- ✓ *PZH hygiene certificate*
- ✓ *Full backlit keypad*
- ✓ *OLED display*
- ✓ *DSP functions: noise reduction, echo cancellation, automatic volume control*
- ✓ *Integrations available via SNMP v3*



ICO CLEANROOM is an IP intercom dedicated to clean room environments. The device features a housing with an environmental protection rating of IP67 and a front panel secured with a chemical-resistant, antibacterial protective coating, which prevents the accumulation of dirt in crevices and allows the intercom to be cleaned using detergents commonly used in healthcare. The device's properties are confirmed by the Hygiene Certificate of the National Institute of Public

Health PZH. ICO CLEANROOM is adapted for installation in modular wall systems. ICO CLEANROOM is equipped with a hands-free system, a clear 2.23-inch OLED display, and a full functional keypad with a backlight option, which improves button visibility in low light conditions and increases contrast in bright light. The keypad allows for adjusting the display backlight and device volume, as well as selecting entries from the contact book in case communication with personnel

outside the speed dial list is needed. ICO CLEANROOM has 3 relays and 6 GPIO inputs/outputs, enabling integration with external devices such as a light signal or a floor switch at the procedure table. ICO CLEANROOM allows for flush mounting, surface mounting, or installation in modular wall systems. The intercom can be powered via standard PoE or using an external DC power supply.

MODELS	Description
ABT-ICO-CLR	Intercom for clean rooms, with full keypad and protective coating
ACCESSORIES	Description
ABT-IAC-BOX01-PB	Mounting box for modular and plasterboard walls, supporting IP65 mounting method
ABT-IAC-BOX01-F	Flush-mounting box, supporting IP65 mounting methods
ABT-IAC-BOX01-W	Surface-mounting box

	ICO CLEANROOM
Audio	
Loudspeaker	1 × built-in speaker with rated power of 5W
Amplifier	Class D; 15 W
Microphone	1 × MEMS type (frequency response 60 Hz – 20 kHz)
Audio input	1 × balanced line input – nominal level 775 mV RMS
Audio output	1 × balanced line output – nominal level 775 mV RMS
Headphone output	Output power 0,25W, Minimum load impedance 16 Ohm
Codecs	Speex, iLBC, GSM, PCMU, G722, Opus, G729, L16
Indicators and control	
LED indicators	3 × RGBW LED (device status, door open, waiting/call)
Display	OLED 2,23"
Keypad	Full function Keypad with backlight
Interfaces	
Ethernet ports	2 × Ethernet port
Relays	2 × make contact input: 30 VDC, 1A / 125 VAC, 0.3A, max. switching voltage 250 VAC / 220 VDC, max. switching power 62.5 VA / 30 W, max. load current 2A
GPIO	6 × digital input/output: parametric input (2-state); logic output 0-5V, current output 18mA, common reference point
LED Driver	12V, current limiting resistor 300 Ohm
Power supply	
PoE	IEEE 802.3af / Class 0, IEEE 802.3at / max. 12.95W (RJ45)
DC	12V / 2A power supply (screw terminal)
Environmental parameters	
Operating Temperature	-40 to +65°C
Relative Humidity	10% to 95% (non-condensation)
Dust/water protection	IP67
Mechanical Resistance	IK05
Physical parameters	
Dimensions (H × W)	137 × 277 mm
Weight	1500 g
Material	Aluminum

ICO STRONG

IP INTERCOM

- ✓ *Intercom for special applications*
- ✓ *Modular construction*
- ✓ *OLED display*
- ✓ *DSP functions: noise reduction, echo cancellation, automatic gain control*
- ✓ *Integrations available via SNMP*
- ✓ *Optional equipment: programmable function buttons, IP camera, RFID reader, full backlit keypad*



SIP 2.0

ABT-ICO-STR-K



ABT-ICO-STR-B4



ICO STRONG is an intercom dedicated to applications requiring devices with high resistance to external factors. Its housing is characterized by vandal resistance at the IP67/IK10 level. ICO STRONG features a modular construction. The device is equipped with a hands-free speaker system, a 2.23" OLED display, and a full function keypad with an optional backlight. It can

be additionally expanded with modules such as a camera and an RFID reader. It is also possible to replace the full function keypad with 1 or 4 speed-dial buttons. ICO STRONG has 2 relays and 6 GPIO inputs/outputs, which can be used for integration with external devices such as light signals, electronic locks, specialized buttons, etc. In addition, it can directly

transmit status information to management systems (PSIM, BMS, etc.), bypassing the SIP server, via the SNMP protocol. ICO STRONG can be surface- or flush-mounted (using dedicated mounting accessories). The device can be powered via PoE or using an external DC power supply.

MODELS	Description
ABT-ICO-STR-K	Intercom panel with numeric keypad
ABT-ICO-STR-KRF	Intercom panel with keypad and RFID reader
ABT-ICO-STR-KC	Video intercom panel with keypad and camera
ABT-ICO-STR-B1	Intercom panel with 1 button
ABT-ICO-STR-B2	Intercom panel with 2 buttons
ABT-ICO-STR-B4	Intercom panel with 4 buttons
ABT-ICO-STR-B1RF	Intercom panel with 1 button and RFID reader
ABT-ICO-STR-B2RF	Intercom panel with 2 buttons and RFID reader
ABT-ICO-STR-B4RF	Intercom panel with 4 buttons and RFID reader
ABT-ICO-STR-B1C	Video intercom panel with 1 button and camera
ABT-ICO-STR-B2C	Video intercom panel with 2 buttons and camera
ABT-ICO-STR-B4C	Video intercom panel with 4 buttons and camera

	ICO STRONG
Audio	
Speaker	1× built-in speaker, rated power 5W
Amplifier	Class D; 16 W
Microphone	1× MEMS microphone (frequency range 60 Hz – 20 kHz)
Audio outputs	1× balanced line output – nominal level 775 mV RMS
Codecs	Speex, iLBC, GSM, PCMU, G722, Opus, G729, L16
Camera*	
Sensor	1/3" FHD CMOS
Resolution	Max. 1920×1080 (1080p) @ 30 fps
Lens [aperture]	F2.2
Sensitivity	0.05 Lux (color) / 0.01 Lux (B/W)
Video compression	H.264+, H.264, M-JPEG
Wide dynamic range	WDR 80 dB
RFID*	
Reader operating frequency	13.56 MHz
Supported technologies and transponders	MIFARE® Classic, MIFARE® Plus, MIFARE® Ultralight, MIFARE® DESFire, ICODE® SLI, NFC tags
Regulatory compliance	Full support for standards: ISO/IEC 14443A/B, ISO/IEC 14443-4, ISO 15693
Maximum reading range	3 cm
Indicators and control	
LED indicators	3× RGBW LED (status, door release, waiting/call)
Display	OLED 2.23"
Keypad*	Full function keypad, with optional backlight
Interfaces	
Ethernet ports	2× Ethernet ports
Relays	2× relay contacts: 30VDC, 1A / 125VAC, 0.3A, max switching voltage 250VAC / 220VDC, max switching power 62.5 VA / 30 W, max load current 2A
GPIO	6× digital input/output: parametric input (2-state); logic output 0–5V, max current 18mA, common reference point
LED driver	12V, 300 Ohm current-limiting resistor
Power supply	
PoE	IEEE 802.3af / class 0, IEEE 802.3at / max 12.95W (RJ45)
DC	12VDC max 24W / 48VDC max 15W
Environmental parameters	
Operating temperature	-40 to +65°C
Relative humidity	10% to 95% (non-condensing)
Mechanical resistance	IK10
IP rating	IP67
Physical parameters	
Dimensions (H × W × D)	250 × 130 × 60 mm
Weight	1500 g
Material	Aluminum
Accessories	
ABT-IAC-BOX02-W	Surface-mount installation box
ABT-IAC-BOX02-PB	Mounting box for modular and drywall (plasterboard) walls
ABT-IAC-BOX02-F	Flush-mount installation box

ICO INDUSTRIAL

IP INTERCOM

- ✓ Vandal-resistant enclosure, IK10/IP66
- ✓ Acoustic monitoring of the speaker-microphone system
- ✓ DSP functions: noise reduction, echo cancellation, automatic volume control
- ✓ 6 GPIOs / 2 relays
- ✓ SNMP integration available
- ✓ Optional equipment: telephone handset, numeric keypad, 2 programmable buttons



SIP 2.0



ABT-ICO-IND-HK

ICO INDUSTRIAL intercoms are designed for demanding industrial environments. The ABT-ICO-IND-HK models are equipped with magnetic covers and are intended for applications where very high ambient noise levels and high levels of atmospheric pollution are expected.

Models equipped with a handset provide enhanced speech intelligibility during conversations. ICO INDUSTRIAL enclosures offer

a high level of vandal resistance (IK10) and an IP66 ingress protection rating, ensuring reliable operation in demanding environmental conditions.

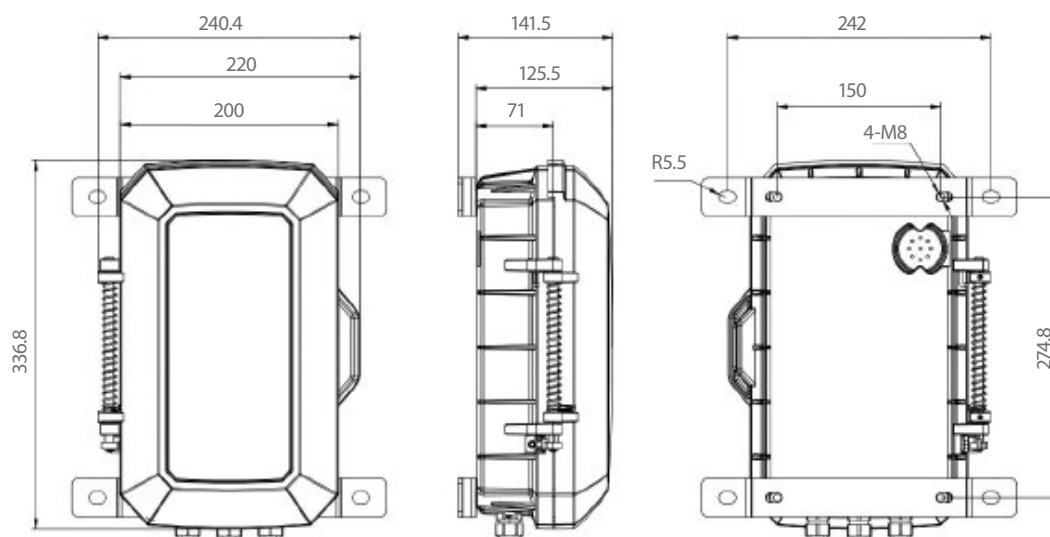
The models feature 2 relays and 6 GPIO inputs/outputs, enabling integration with a wide range of external devices, such as visual indicators, electronic locks, and specialized buttons. In addition, the intercom can autonomously

report its status to building management systems (PSIM, BMS, etc.) via the SNMP protocol, without requiring a SIP server. This enables, for example, reporting of door or emergency exit opening events.

ICO INDUSTRIAL intercoms are designed for surface mounting. They can be powered via PoE or an external DC power supply.

MODELS	Description
ABT-ICO-IND-H	Wall-mounted intercom with telephone handset, enclosed housing, IP67, IK10
ABT-ICO-IND-HK	Wall-mounted intercom with keypad and telephone handset, enclosed housing, IP67, IK10
ABT-ICO-IND-B2	Wall-mounted intercom with 2 buttons, enclosed housing, IP67, IK10

	ICO INDUSTRIAL
Audio	
Speakers	1 × built-in speaker, rated power 5W
Amplifier	Class D; 16 W
Microphone	1 × MEMS microphone (frequency range 60 Hz – 20 kHz)
Handset*	1 × handset on flexible cord
Audio outputs	1 × balanced line output – nominal level 775 mV RMS
Codecs	PCMU, G722, PCM
Interfaces	
Ethernet ports	2 × Ethernet ports
Relays	2 × relay contacts: 30VDC, 1A / 125VAC, 0.3A, max switching voltage 250VAC / 220VDC, max switching power 62.5 VA / 30 W, max load current 2A
GPIO	6 × digital input/output: parametric input (2-state); logic output 0–5V, max current 18mA, common reference point
LED driver	12V, 300 Ohm current-limiting resistor
Indicators & controls	
Programmable buttons*	× 2
Numeric keypad*	0–9 keypad
Door contact (in bracket)*	× 1
LED indicators	3 × RGBW LED (status, door release, waiting/call)
Power supply	
PoE	IEEE 802.3af / class 0, IEEE 802.3at / max 12.95W (RJ45)
DC	12V power supply max 25W / 48VDC max 15W (screw terminal)
Environmental parameters	
Operating temperature	-40 to +65°C
Relative humidity	10% to 95% (non-condensing)
Mechanical resistance	IK10
IP rating	IP66
Physical parameters	
Dimensions (H × W × D)	337 × 220 × 126
Weight	6kg
Material	Aluminum



ICO PHP S01/S02

INFO/SOS HELP POINT INTERCOM

- ✓ *Free-standing intercom*
- ✓ *Vandal-resistant design IK10*
- ✓ *Protection rating IP65*
- ✓ *Modular configuration*
- ✓ *DSP functions: noise reduction, echo cancellation, automatic volume control*
- ✓ *Integrations available via SNMP v3*



ICO-PHP is a free-standing intercom column serving as an emergency call point. It features a vandal-resistant housing with an IK10/IP65 protection rating. ICO-PHP has a modular design. It consists of a free-standing enclosure equipped with an intercom module and additional elements such as a camera, induction loop amplifier, or network switch. The configuration and mechanics of the column can be customized to meet individual customer needs. The ICO-PHP intercom module is equipped with 2 relays and 6 GPIO inputs/outputs, enabling integration with various external devices such as strobe, electronic locks, and specialized buttons. Furthermore, it has the ability to directly transmit information about its status to management systems (PSIM, BMS, etc.) bypassing the SIP server, using the SNMP protocol.



MODELS	Description
ABT-ICO-PHP S01	Emergency call point for railway applications
ABT-ICO-PHP S02	INFO/SOS point for emergency and/or information calls

	ICO PHP S01/S02
Audio	
Loudspeaker	1 × built-in speaker with rated power of 5W
Amplifier	Class D; 15 W
Microphone	1 × MEMS type (frequency response 60 Hz – 20 kHz)
Audio input	1 × balanced line input – nominal level 775 mV RMS
Audio output	1 × balanced line output – nominal level 775 mV RMS
Headphone output	Output power 0.25W, Minimum load impedance 16 Ohm
Codecs	Speex, iLBC, GSM, PCMU, G722, Opus, G729, L16
Interfaces	
Ethernet ports	2 × Ethernet ports
Relays	2 × make contact input: 30 VDC, 1A / 125 VAC, 0.3A, max. switching voltage 250 VAC / 220 VDC, max. switching power 62.5 VA / 30 W, max. load current 2A
GPIO	6 × digital input/output: parametric input (2-state); logic output 0-5V, current output 18mA, common reference point
LED Driver	12V, current limiting resistor 300 Ohm
Power supply	
PoE	IEEE 802.3af / Class 0, IEEE 802.3at / max. 12.95W (RJ45)
DC	12V / 2A power supply (screw terminal)
Environmental parameters	
Operating temperature	-40 to +65°C
Relative Humidity	10% to 95% (non-condensation)
Mechanical Resistance	IK10
Schutzart	IP65

ABT-IAC-BOX01-W/WO / BOX02-W

SURFACE MOUNT HOUSING

✓ Surface mount housing for IP Intercoms



MODELS	Description
ABT-IAC-BOX01-W	Surface mount housing for ICO EMERGENCY series devices
ABT-IAC-BOX01-WO	Surface mount housing for ICO EMERGENCY series devices in orange with SOS markings on the side of the housing
ABT-IAC-BOX02-W	Surface mount housing for ICO STRONG series devices

	ABT-IAC-BOX01-W	ABT-IAC-BOX01-WO	ABT-IAC-BOX02-W
Dimensions (H × W × D)	137 × 277 × 46 mm	137 × 277 × 46 mm	1130 × 250 × 61.8 mm
Weight	1538 g	1538 g	900 g
Material	Steel	Steel	Aluminum

ABT-IAC-BOX01-F/PB / BOX02-F/PB

RECESSED HOUSING

- ✓ *Flush-mounting housing*
- ✓ *Housing for installation in modular and plasterboard walls*



ABT-IAC-BOX01-PB

MODELS	Description
ABT-IAC-BOX01-F	Flush-mount housing for ICO EMERGENCY series devices
ABT-IAC-BOX01-PB	Plasterboard housing for ICO EMERGENCY series devices
ABT-IAC-BOX02-F	Flush-mount housing for ICO STRONG series devices
ABT-IAC-BOX02-PB	Plasterboard housing for ICO STRONG series devices

	ABT-IAC-BOX01-F	ABT-IAC-BOX01-PB	ABT-IAC-BOX02-F/PB
Dimensions (H × W × D)	125 × 265 × 40 mm	125 × 265 × 40 mm	130 × 250 × 57.8 mm
Weight	659 g	601 g	500 g
Material	Steel	Steel	Steel

ABT-ICDG-1

OPERATOR CONSOLE

- ✓ Desktop station with handset and gooseneck microphone
- ✓ 4.3" main display
- ✓ H.264 video codec support
- ✓ Two 3.5" auxiliary displays
- ✓ Programmable buttons
- ✓ Full functional keypad
- ✓ Headset connection possibility
- ✓ Built-in Bluetooth module



ABT-ICDG-1 is an operator console that combines the functionality of an IP phone and a public address desk. It is equipped with a 4.3-inch display, an auxiliary display, a full functional keypad, a block of 32 programmable buttons, a handset for calls, a hands-free system, and a goose-neck microphone. The numeric keypad of the ABT-ICDG-1

allows the operator to select any intercom by entering its assigned number. On the graphic LCD display, the operator can clearly verify the station with which a connection has been established and access additional functions such as settings and the address book. The quick selection button block, located on the right side of the station,

offers programming of 32 physical buttons (a total of 96 logical functions across 3 layers). These can be assigned various tasks, such as selecting a recipient, selecting a zone, and activating voice messages from the server memory.

MODELS	Description
ABT-ICDG-1	Operator console / IP intercom with gooseneck microphone
ABT-ICDG-1B	Operator console / IP intercom with gooseneck microphone; enhanced IK rating

	ABT-ICDG-1 / ABT-ICDG-1B
Audio	
Microphone	1 × directional gooseneck microphone; Frequency response: 20 Hz – 20 kHz; SNR: > 60 dB @ 1kHz
Handset	1 × RJ9 handset with cord
Indicators and control	
Main display	1 × LCD color display 4.3" (480 × 272)
Auxiliary display	2 × LCD color display 3.5" (320 × 480)
Keyboard	Full functional telephone keyboard 42 × Programmable buttons
Indicators	1 × status LED (red)
Interfaces	
Ethernet ports	2 × Ethernet port
Power supply	
PoE	PoE: IEEE 802.3af / class 0, IEEE 802.3at / max. 9W
DC	External adapter - 5V / 2A (option)
Environmental parameters	
Operating temperature	-10 to +40°C
Relative Humidity	10% to 95% (non-condensation)
IP rating	IP30
Mechanical resistance	IK07 (ABT-ICDG-1B)
Dimensions	309 × 214 × 187 mm (base option 1) 309 × 226 × 167 mm (base option 2)

ABT-ICDG-2

ANDROID CONSOLE IP PHONE

- ✓ 20 SIP lines — 10-party audio & 3-party video conferencing
- ✓ Full-duplex HD audio & video calls, built-in 5MP adjustable camera
- ✓ 7" touch screen with 116 DSS keys
- ✓ Built-in broadcast & intercom functionality
- ✓ Desktop or wall-mounted installation
- ✓ Dual Gigabit PoE ports, built-in Wi-Fi



The ABT-ICDG-2 terminal is a modern IP phone with Android 9.0 that comprehensively integrates audio and video communication, while also enabling the installation of third-party software. Designed with the highest audio quality in mind, it features

a gooseneck microphone and an intelligent speech algorithm, enabling full-duplex conversations at volumes up to 90 dB. A built-in, adjustable 5-megapixel camera ensures clear visual communication. Regardless of the specific workplace, the ABT-ICDG-2

guarantees complete flexibility thanks to its universal mount, which allows for convenient installation in both desktop and wall-mounted configurations.

MODELS

Description

ABT-ICDG-2

7-inch screen, Network: 10/100/1000Mbps, PoE

	ABT-ICDG-2
Audio	
Microphone	Gooseneck microphone; HD voice, 0–7 kHz frequency response
Full-duplex calls	Max. volume 90 dB
Audio codecs	Wideband: G.722, Opus; Narrowband: G.711a/u, G.729AB, iLBC
Audio processing	Full-duplex Acoustic Echo Cancellor (AEC), Noise Reduction (NR)
Video	
Camera	5 MP, adjustable angle
Video codec	H.264 (H.265 optional)
Video call resolution	CIF / VGA / 4CIF / 720P / 1080P
Indicators and control	
Main display	7" color touch screen (1024×600)
DSS keys	116 × programmable (DSS / Soft keys)
Operating modes	Handset / Hands-free / Headset
Interfaces	
Ethernet ports	2 × RJ45 (network + PC, bridged)
Handset / Headset ports	2 × RJ9
USB	1 × USB 2.0 Type-A (USB card support)
Installation	Desktop or wall-mounted (dual-purpose bracket)
Network	
Wi-Fi	Built-in, 2.4G/5G dual-band
IP configuration	IPv4; Static / DHCP
Network access control	802.1x
Call & phone features	
SIP lines	20
Conferencing	10-party audio, 3-party video
Phonebook	Local (2000 entries); remote XML/LDAP (2000 entries)
Call log	1000 entries (in/out/missed), intelligent search
Power supply	
Power	12V/1A adapter or PoE
Power consumption (PoE)	3.52–10.76 W
Power consumption (adapter)	2.38–8.6 W
Environmental parameters	
Operating temperature	0 to +45°C
Relative humidity	10 – 95%
Physical specifications	
Color	Grey
Dimensions	Desktop stand 45°: 265 × 172.1 × 145.2 mm; Desktop stand 50°: 265 × 161.7 × 154.5 mm
Included accessories	HD handset (RJ9) + cord, standard RJ9 handset wire, 1.5 m CAT5 Ethernet cable, installation bracket

ABT-ICD-1

DESKTOP INTERCOM

- ✓ Basic desktop unit with handset
- ✓ 2.8" display
- ✓ Full functional keypad
- ✓ Headset connection possibility



ABT-ICD-1 is a stylish desktop intercom designed for intuitive call handling and convenient voice announcements. Equipped with a clear 2.8-inch display, a functional keypad, a hands-free mode, and a dedicated

handset, it ensures comfortable communication. Thanks to the graphic LCD display, the ABT-ICD-1 operator has a clear view of the call status and easy access to additional functions such as the address book and device

settings. The intercom enables initiating calls and conducting conversations with any system user, as well as effectively broadcasting voice messages.

MODELS	Description
ABT-ICD-1	Desktop station with display and headset

	ABT-ICD-1
Audio	
Handset	1 × RJ9 handset with cord
Indicators and control	
Display	1 × LCD color display 2,8" (320 x 240)
Keyboard	Full functional telephone keyboard
Indicators	1 × status LED (red)
Interfaces	
Ethernet ports	2 × Ethernet ports
Power supply	
PoE	PoE: IEEE 802.3af / class 0, IEEE 802.3at / max. 9W
DC	External DC adapter - 5V / 0.6A (option)
Environmental parameters	
Operating temperature	0 to +45°C
Relative Humidity	10% to 95% (non-condensation)
Dimensions	169 × 186.3 × 174.5 mm (setup A) 169 × 177.6 × 183.7 mm (setup B) 169 × 115.6 × 212.5 mm (wall mounted)

ICO BOX

IP INTERCOM MODULE

- ✓ *DSP algorithms: noise reduction, automatic volume control*
- ✓ *16W power amplifier (Class D)*
- ✓ *Noise tracking capability*
- ✓ *Remote status monitoring*
- ✓ *Reporting via SNMP*
- ✓ *Browser-based configuration and management*
- ✓ *Optional electret microphone sensor on cord (1,5m)*



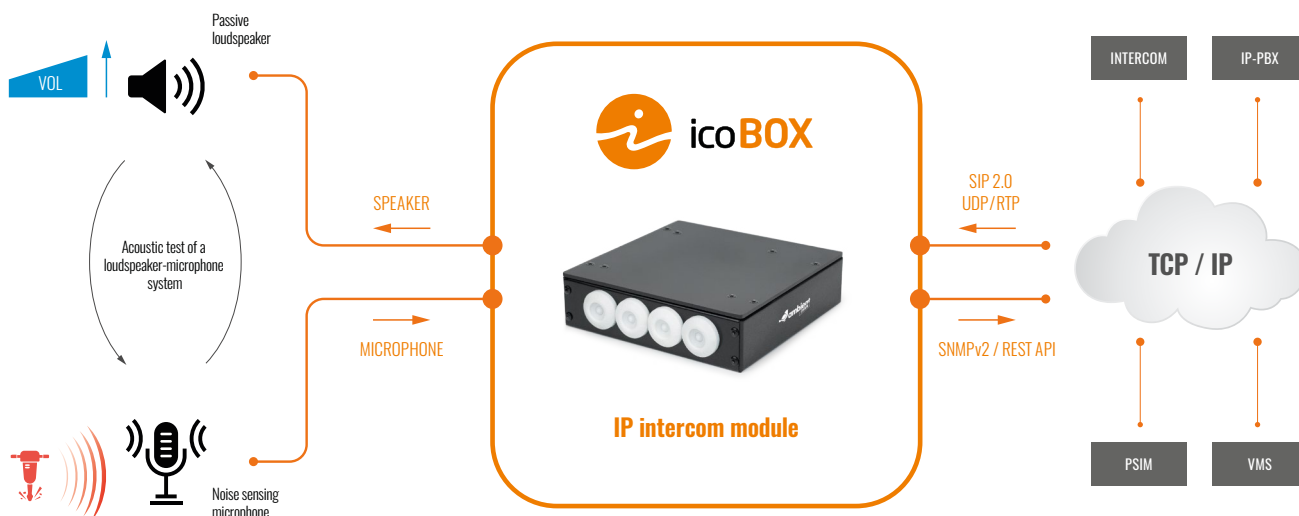
ICO BOX is an IP network amplifier that enables the integration of conventional loudspeakers into an intercom system. It is equipped with a digital amplifier with rated power of 16W (at 4 Ohms). ICO BOX is capable of receiving audio signals transmitted using SIP 2.0, RTP, and RAW UDP standards. The device also has a local line input. ICO BOX

offers a noise tracking function – the level and characteristics of the emitted sound can be automatically adjusted to the ambient noise level measured by a connected microphone. This improves the intelligibility of the reproduced speech. ICO BOX has advanced mechanisms for monitoring its operational status, including acoustic control of the

correct functioning of the loudspeaker-microphone system. The device status can be reported to external management systems using the SNMP protocol. The configuration of ICO BOX is done remotely via an intuitive web interface.

MODELS	Description
ABT-ICO-BOX	Network amplifier with noise tracking function

ACCESSORIES	Description
ABT-IAC-STN	Accessories for ICO BOX: Microphone, Speaker, Button



	ICO BOX
Audio	
Amplifier	16W, Class D
Local input	1 × balanced line input, 20 kOhm, nominal level 775 mV RMS
Sensor input	1 × microphone input, 100 kOhm, 2V Phantom Power
Interfaces	
Ethernet ports	2 × Ethernet ports
Protocols	SIP2.0, RTP, RAW UDP, SNMP, HTTP
Audio Codecs	G.722, PCM 48 kHz 16-bit mono
Power supply	
PoE	PoE: IEEE 802.3af / class 0, IEEE 802.3at / max. 12.95W
DC	External DC adapter - 12V / 2A (option), 48VDC / 0.5A
Environmental parameters	
Operating temperature	-40 to +65°C
Relative Humidity	10% to 95% (non-condensation)
IP rating	IP30
Physical parameters	
Material	Aluminum
Weight	400 g
Dimensions (W × H × D)	50 × 140 × 120 mm

ABT-S206S

SIP CEILING LOUDSPEAKER

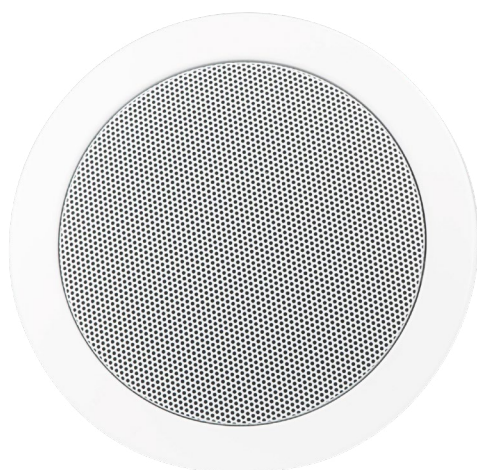
- ✓ *Powered ceiling loudspeaker*
- ✓ *Quick and simple installation*



The ABT-S206S is a SIP recessed ceiling loudspeaker with built-in amplifier. The loudspeaker can be powered via PoE

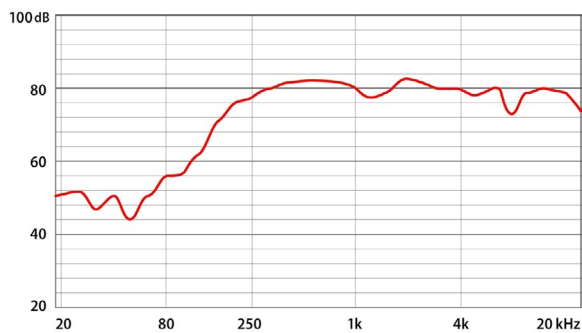
or using a DC adapter. It is dedicated for security and safety applications, allowing it to interface to intercom systems, PSIM

software, VMS, CCTV systems and others, directly via TCP/IP network.

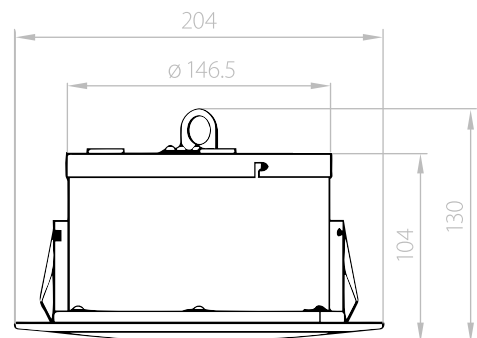
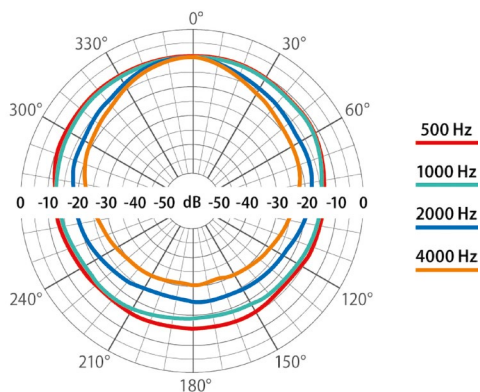


ABT-S206S	
Electrical	
Rated power	6 W
Network interface	10/100BASE-TX, RJ45
Power supply	DC 12–24 V or POE
Decoding mode	Max. 48 kHz, 320 kbps audio stream, MP3, G.711 a/u, G.722. min. delay: 50 ms
Effective frequency range	120 Hz – 20 000 Hz
Dispersion at 1 kHz	180°
SPL (6 W @ 1 m)	99 dB
Environmental	
IP rating	IP32
Min./max. ambient temperature	-20°C / 55°C
Mechanical	
Dimensions	Height 130 mm, ø 204 mm
Net weight	1.1 kg
Color	White (RAL 9003)
Material	Steel
Mounting	Spring clamp
Accessories	
Power supply	12VDC / 2 A / 24 W

Frequency band:



Circular chart of directional characteristic:



ABT-W6S

SIP WALL-MOUNTED LOUDSPEAKER

- ✓ *Powered cabinet loudspeaker*
- ✓ *Suitable for wall and ceiling installation*



The ABT-W6S is a cabinet loudspeaker with a metal enclosure. The loudspeaker is designed for on-wall and/or on-ceiling installation, with the option for recessed installation (using an accessory bracket). The loudspeaker is fitted with a built-in power amplifier and SIP module, allowing it to interface directly with SIP-based life safety and security systems.



ABT-W6S**Electrical**

Rated power	6 W
Network interface	10/100BASE-TX, RJ45
Power supply	DC 12–24 V or POE
Decoding mode	Max. 48 kHz, 320 kbps audio stream, support MP3, G.711 a/u, G.722. min. delay: 50 ms
Effective frequency range	120 Hz – 20 000 Hz

Dispersion at 1 kHz 180°

SPL (6 W @ 1 m) 101 dB

Environmental

IP rating	IP32
Min./max. ambient temperature	-20°C / 55°C

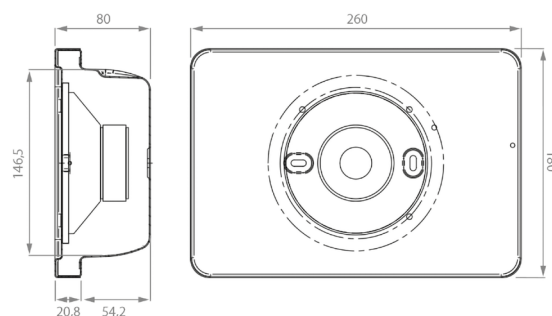
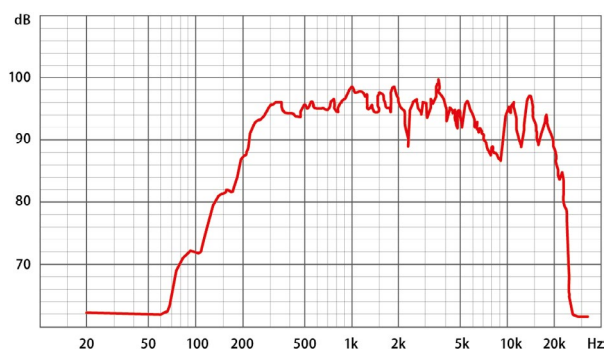
Mechanical

Dimensions	260 × 180 × 80 mm
Net weight	1.5 kg
Color	White (RAL 9003)
Material	Steel
Mounting	Screws

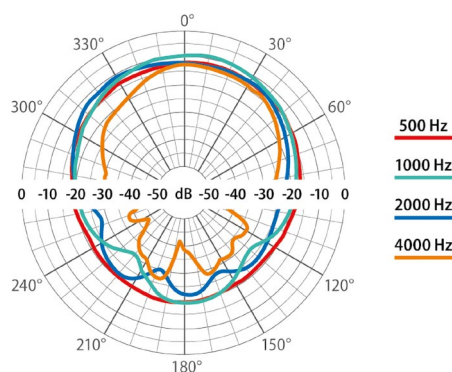
Accessories

Power supply	12VDC / 2 A / 24 W
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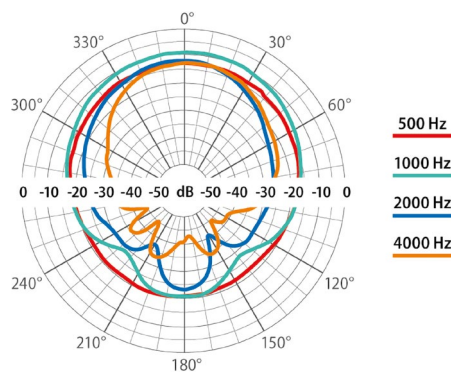
Frequency band:



Circular chart of directional characteristic – horizontal:



Circular chart of directional characteristic – vertical:



ABT-T2515S

SIP HORN LOUDSPEAKER

- ✓ Built-in 15W amplifier
- ✓ High efficiency
- ✓ Aluminium housing
- ✓ IP65 protection rating



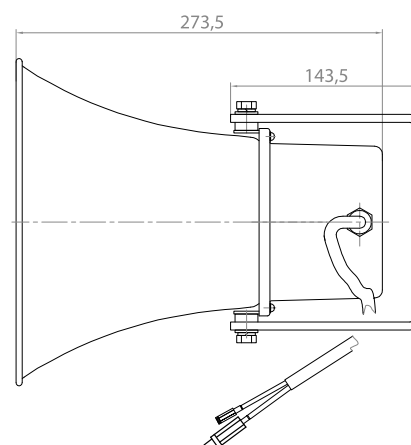
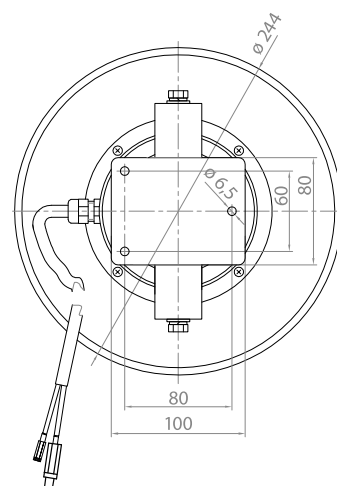
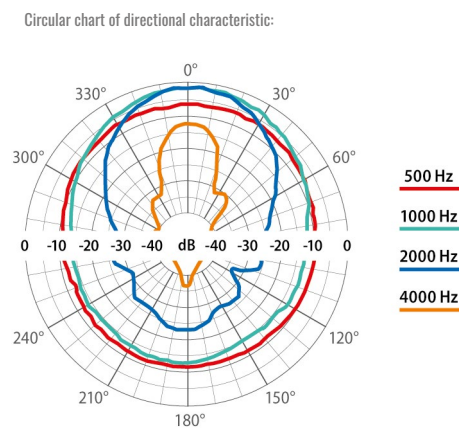
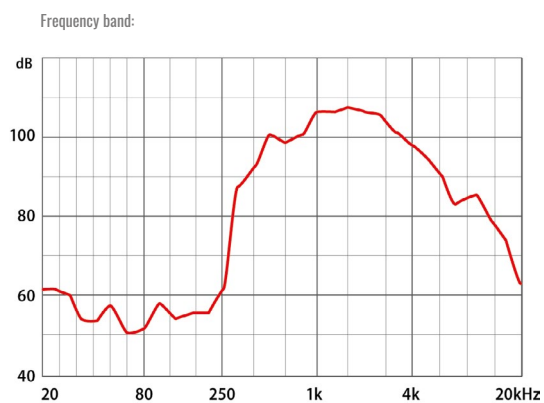
ABT-T2515S is a SIP horn loudspeaker with a built-in 15 W amplifier. It can be powered by PoE that allows to easily connect it to existing local area networks using one CAT5/CAT6 cable connection. It is an ideal choice for applications in security systems,

industrial and commercial systems in both outdoor and indoor areas such as train stations, airports, parking lots, parks, gardens, corridors and much more. The high efficiency and directionality of the loudspeaker allow broadcasting voice messages

directly to even distant places, while ensuring a high sound pressure level. The aluminium housing guarantees increased resistance to adverse weather conditions provided by the IP65 rating.



	ABT-T2515S
Electrical	
Rated power of amplifier	15 W
Network interface	10/100BASE-TX, RJ45
Power supply	DC 12–24 V or POE
Decoding mode	Stereo playing, max. 48 kHz, 320 kbps audio stream, support MP3, WAV (PCM +IMA ADPCM), G.711 a/u, G.722., min. delay: 50 ms
Encoding mode	G.711a/u, G.722 and RTP mode, min. delay: 30 ms
Effective frequency range	350 Hz – 7 kHz
Dispersion at 1 kHz	110°
SPL (15W @ 1 m)	111 dB
Environmental	
IP rating	IP65
Min./max. ambient temperature	-20°C / 55°C
Mechanical	
Dimensions	250 × 320 mm
Net weight	2.3 kg
Colour	Light grey (RAL 7035)
Material	Aluminium
Mounting	U type bracket
Accessories	
Power Supply	12VDC / 2 A / 24W





We make everyday life safer

Ambient System products are continually improved. All specifications are therefore subject to change without prior notice.

EN / 09.2026