



IP Intercom for Prisons

Ipefono AV

Ipefono AV is a device designed as ideal intercom for voice communication under the most security extreme conditions. Thanks to its robust design, it is highly resilient to malicious damage.

It is made of 2mm stainless steel front panel where call button, microphone and speaker are located, without any hole in the surface to *avoid the damage from sharp objects*.

The Ipefono AV can be embedded or surface mounted, in both cases it has security torx screws to avoid tampering.

Its IP65 protection rating against dust and water spray make it the ideal system for harsh environments. At the same time, the audio quality is not sacrificed, using the same network bandwidth as similar devices the Ipefono offers a much clearer signal.

Like all the devices in the Ipefono family, it can be integrated in standard VoIP telephony platforms, Call Managers and VoIP PBX, provided that these support SIP (Session Initiation Protocol) or even to manage it just using a standard VoIP phone. It offers advanced features like forwarding calls to a cell phone, the use of Internet accounts, recording communications, multi conferencing, ...

It has outputs for controlling doors, lights, ...It is also possible to connect a camera module to provide video-intercom services.

ConectaIP Tecnología S.L.
Manuel Girona 15
08034 Barcelona, SPAIN

WEB: www.conectaIP.es
EMAIL: info@conectaip.es
TEL: +34 93 490 16 01

Technical Features

- **Vandal resistant stainless steel** format. Front panel thickness 2 mm.
- Reduced surface-mount box depth: L 180 mm, W 110 mm, D 32 mm.
- Flush mount wall box: L 180 mm, W 110 mm, D 25 mm. Front panel size: L 153 mm, W 90 mm, D 25 mm.
- **Power Over Ethernet** (PoE IEEE 802.3af) or power supply: 5V. Nominal consumption: 1W, maximum consumption with audio and video: 4.5W.
- Industrial Temperature Range **from -40°C to 85°C**.
- **IP65** protection index.
- Class D audio amplifier. Power: 3.2 W, **Energy efficiency: 96%**.
- Optional **camera module**: VGA resolution (640x480), QVGA (320x240) or QQVGA (160x120), JPEG compression, up to 10 frames per second in QVGA resolution.
- Illuminated anti vandal call button with configurable hysteresis time.
- **Solid state relay output**. Maximum current: 100mA, maximum voltage: 60V, output impedance: 16Ω.
- Independent audio level adjustment for tones, ring signal, conversation and file playback.
- Microphone sensitivity adjustment.
- Multiple algorithms for **echo cancellation**: duplex adaptive, Acoustic Echo Canceller or Push To Talk.
- Use of network bandwidth from 16 Kbps to 64 Kbps (headers not included).
- G711 (3.4 KHz), **G722 (7.1KHz)** and **G726 (3.4KHz)** audio codecs.
- Sampling precision: **12 bits**.
- Microphone noise gate with digital filtering.
- IP Protocols: ARP, IPv4, ICMP, IGMP, TCP, UDP, DHCP, DNS, SIP, HTTP, Telnet, RTP, RTCP, SNTP, Modbus TCP, Modbus UDP and Discovery Protocol (© by ConectaIP).

Mechanical Features

- It connects with **standard SIP** systems (PBXs, VoIP gateways, VoIP phones, ...) and Voice over IP internet services.
- Call forwarding to landline and cellular phones. It is also possible to open barriers and doors from them.
- Alternative call destination if the main call fails.
- **Broadcast mode** to speak to several devices simultaneously .
- **WAV file playback** by activating digital inputs, HTTP commands or the call status.
- Software upgrade, configuration and remote administration with its internal Web server.
- Traces and diagnostics using Telnet .
- The "auto configuration mode" allows you to install intercoms without requiring a computer.
- Free software tool available to enable **large scale verification , update and configuration**.
- Another free installation **tool to identify devices** within the local network without requiring IP connectivity, and setting up the main parameters of the device.
- **HTTP JPEG Images server**, up to 10 frames per second with CIF resolution.
- HTTP commands to playback WAV files, play tones, audio test and output activation.
- **Audiosensor** for activating outputs and making intercom calls.

