



Description

The public address system over IP networks of UNION DESARROLLOS ELECTRONICOS allows the creation of conventional public address systems, which allow interconnection with IP equipment, thanks to compliance with the SIP standard. Therefore, UDE offers the IPU-360 SIP Server that centralizes and coordinates all the communications of the public address elements by IP, guaranteeing the maximum operability of all of them, with the minimum risk.

The IPU-100 includes several functions within the same equipment: encoder, decoder and audio manager. With these functions the user is allowed to:

- Connect to conventional amplifiers via an audio output.
- Connect to a zone control desk (IPU-100P).
- Connect to a music source for audio input to the IP network.
- Connect a microphone with / without phantom power for message transmission.

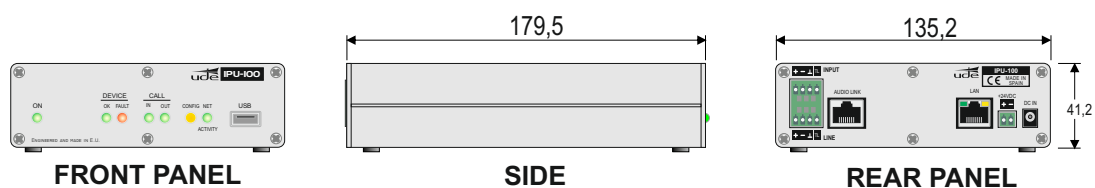
The IPU-100 decoder becomes the key element to ensure compatibility with all equipment in the range of an UDE public address system, thanks to its auxiliary or microphone input that will allow you to adapt existing facilities and provide added value based on IP telecommunications networks.

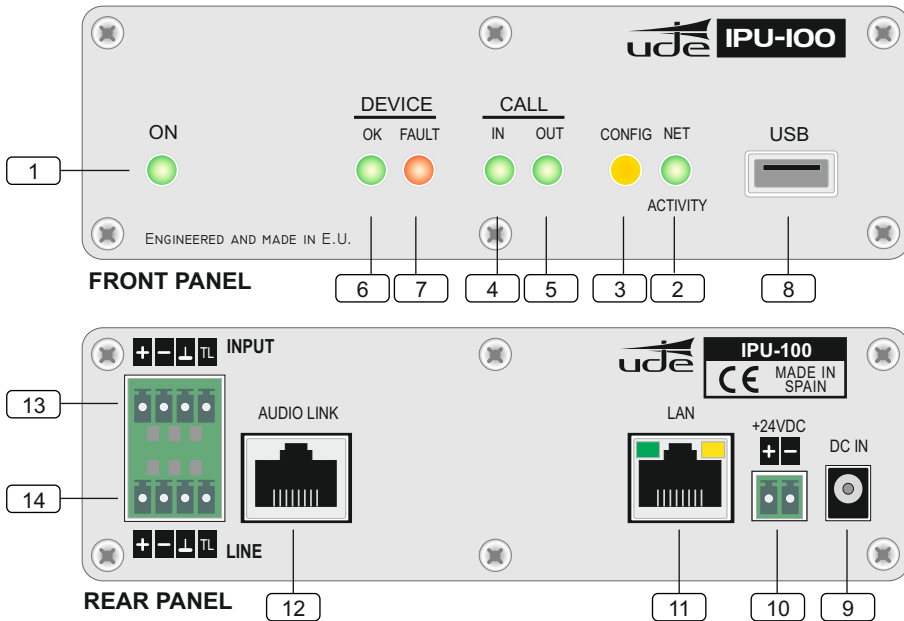
- Differential Microphone input with sensitivity of 2mV, optional 12VDC phantom power.
- Audio Line input with sensitivity of 300mV for Background Music devices.
- POE (Power Over Ethernet) through LAN connector.
- G.711, G722 and PCM audio encoding and decoding.
- Power ON led indicator.
- USB 2.0 for firmware update.
- +24 VDC power supply.
- 100% WIFI compatible.

Optional accessories (not included):

- **IPW-25** 24 VDC power supply.
- **IPW-10** Wall mount clamp.
- **IPW-13** Storage 19" rack tray.

Dimensions





DEVICE CONFIGURATION (WEBSERVER).

The configuration of the IPU-100 is done by accessing the IP assigned to the equipment by the installation administrator if working in Manual assignment mode, or the DHCP server if working in Automatic mode.

The factory fixed IP is: 192.168.0.210

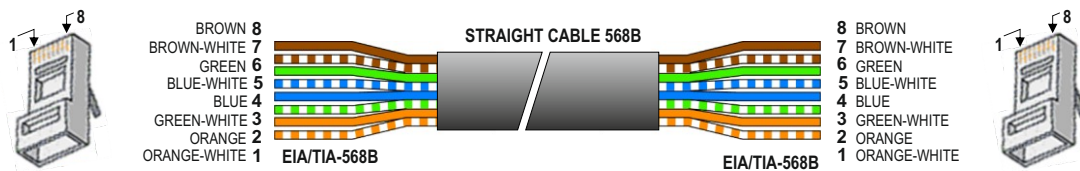
Default user: admin
Default password: 1234

- 1 **LED ON.** The equipment is properly powered and that the main application is working.
- 2 **LED NET ACTIVITY.** data activity of the machine when it is connected to an Ethernet LAN. When receiving IP packets the indicator LED should turn on and off.
- 3 **LED CONFIG.** Machine configuration session is opened through the built-in Webservice.
- 4 **LED CALL IN.** Incoming call (Decoder mode active) is received and accepted.
- 5 **LED CALL OUT.** Activated when the IPU-100 is the generator of a voice call.
- 6 **LED DEVICE OK.** Activated when the IPU-100 is the generator of a voice call.
- 7 **LED DEVICE FAULT.** Activated with a bad registration in the server.
- 8 **CONNECTOR USB.** The equipment allows firmware update through this USB connector.
- 9 **DC IN.** Equipment power connector through external 24Vdc power supply. Ref. UDE IPW-25.
- 10 **+24 VDC.** The terminal allows the connection of the IPU-100 to a backup battery system, to prevent the equipment from stopping during a failure of the primary power supply (220V network).
- 11 **LAN.** The LAN port allows the connection of the IPU-100 to the IP network. It supports automatically low and improved speed networks



CAUTION: The IPU-100 can only process IP packets that have not been fragmented

- 12 **AUDIO LINK.** The Audio link connector that allows the connection of a zone desk of the IPU-100P type, or it allows to expand and control external equipment. The cable to be used conforms to IEC 60603 with CAT.5 and UTP, the terminals must be RJ-45.



- 13 **INPUT.** Euroblock connector. Connection of an external audio input, either being a source with auxiliary level or an external microphone, with the possibility of 12Vdc phantom power (configurable through the Webservice).
- 14 **LINE.** Euroblock connector. Line-level audio output from the call through IP networks, which allows connection to an external amplification system for subsequent connection to the installation's loudspeaker lines. The audio signal is asymmetric.

