

Aseries ACen

Central unit for A-Series microphone units

Article no.: 04.5005



Description

The ACen control unit supplies all connected microphone units within the A-Series. All units are automatically configured and the digital audio signal is forwarded. The ACen includes all common microphone modes, including automatic, push-to-talk and request to speak, chairperson priority, and VIP management.

The ACen offers four RJ45 sockets for connecting up to 100 delegate units in total. Each output is powered by its own power supply unit. In the event of a short circuit or line failure, the other outputs continue to operate without interruption. As soon as a microphone unit is connected to the central unit, it is immediately ready for use without any further settings. The free ConfigTool is available for individual customization of the ACen. With the MicControl2 and CamControl2 software solutions, the microphone and camera systems can be conveniently managed and controlled via the ACen central unit.

For easy connection to other devices, the ACen is equipped with one analog input and five analog outputs. These balanced connections are designed as Phoenix terminals for quick and easy installation. Various microphone signals can be freely routed to the outputs via an internally controllable audio matrix. Each chain of microphone units is available as a separate audio signal, and chairman units can also be routed as a separate audio signal.

Technical data

Digital audio

- 48 kHz sampling rate
- 20–20,000 Hz frequency response
- Approx. 1 ms latency

Audio interfaces

- One analog input (IN) balanced, Phoenix terminal
- Five analog outputs: 1 master +4 x OUT, signals configurable via audio matrix, connection: Phoenix terminal

Control

- Network connection (TCP/IP) for control via ConfigTool, MicControl2/CamControl2 software

Connection of delegate units

- UNITS L1 ... L4 (RJ45 socket)
- 25 A-Series microphone units can be connected to each of the four outputs, depending on the cable length
- Expansion of line outputs using DExt additional power supply

Additional connections

- USB-A for power supply to external additional devices

Features

- 4 independent power supplies – one for each line output
This provides multiple redundancy in the event of a power supply failure, as the control center and the other units continue to operate without interruption.
- HOT SWAP functionality. When replacing a faulty delegate unit, the new unit is automatically configured correctly. Replacement units therefore do not need to be preconfigured separately.
- 4 green LEDs to indicate the operating voltage at the line outputs
- 4 red LEDs to indicate voltage disturbances
- 4 yellow LEDs to indicate the audio level
- Info LED for operating display
- LAN LED for network display
- 8 x 5 audio matrix allows sophisticated sound reinforcement and audio distribution
- Line outputs protected against short circuit and overload
- Expandable to up to 1000 delegate units

Microphone operating modes

- AUTomatic – Each participant switches itself on/off, optionally with or without limiting the active microphones
- AUTomatic NEXT/FLOAT – Each participant switches themselves on/off with FIFO function
- MANual – Manual operation with call list
- PRIOrity – Priority function for chairperson, either via microphone button or separate priority button
- VOX – Automatic activation when speaking

Power

- Connection: 90V...240V AC, 50/60 Hz
- Power consumption: 480 W max.

Required system components

The ACen is only compatible with A-Series microphone units.

- AMic
Article no.: 04.5100
- AChair
Article no.: 04.5105

Optional components

- DExt
Article no.: 05.0025
- Brähler Systems camera system (PTZ980 or PTZ980 NDI camera, SDI-MS16, BCC2 camera controller)

Software

ConfigTool, MicControl2, and CamControl2 for network-based control. Easy configuration of all delegate units from a central location.

System example

