

# D-CERNO AE

## D-CERNO Central Unit: Quick, Easy & Hybrid



CONFERENCE

### Description

The D-Cerno AE is the rack-based central engine that enables the D-Cerno discussion system for small to medium-sized meetings. By using state-of-the-art audio processing technology, D-Cerno AE is optimized for its market segment and ready to address future audio processing requirements. With this hybrid-ready control unit, D-Cerno offers unparalleled flexibility and makes integration with external systems easy.

D-Cerno occupies a unique position in the market since it combines an easy-to-setup system with a wide variety of interfaces. The central engine controls 50 delegate units and can be easily integrated by using USB audio, AES-67 and analog audio.

The delegate units are connected in daisy chain with a shielded CAT5E cable over the 4 bus connections (4 branches or 2 closed loops). With a loop, the redundancy mechanism guarantees that the system continues to function flawlessly if a cable should break or disconnect.

With the D-Cerno AE, organizing a hybrid meeting is as easy as plugging-in a USB cable. This will automatically create a speaker/microphone audio device on your PC which can be selected in your preferred meeting platform. This is combined with the new hands-free microphone mode which makes it possible to meet and discuss without the need to push a button

Integration with the D-Cerno AE is made easy with AES67 and the multi-channel USB connection which allows you to link your D-Cerno system with external devices such as a DSP or an external recording solution. With the integrated audio configurator, you can choose where the audio is routed to and group microphones and speakers together where necessary.

A simple interface gets you all controls right at your fingertips: a volume dial adjusts the volume, and a simple record button\* starts or stops the recording. And with an integrated web server, operators have full control over the microphone modes and recording settings through an easy web interface.

D-Cerno AE can be mounted in a 19" rack but can also be simply positioned on a table for an easy setup. With its fan-less design, this engine is the center piece for all small to medium-sized meeting rooms without any concern for fan noise, even during extended usage.

The D-Cerno AE is able to record on an internal storage but also provides the possibility to record on a flash drive plugged in one of the two USB-C connections.

## Benefits

- » Plug-and-play approach
- » 19" rack-based design
- » Hybrid ready via direct USB interface
- » Hands-free mode: No need to push a button
- » Easy to integrate with AES-67 and USB
- » Ready to record\*
- » Smart Audio & Control:
  - › Dynamic Mix minus
  - › Gain sharing
  - › API control
- » Camera control integration capabilities
  - › T-Cam or 3rd Party
- » Fan-less operation
- » Extended power management\*
  - › Wake-On-Lan
  - › Auto Power-on
  - › ECO mode

## Features

- » Dynamics control
- » Integrated web server
- » Integrated recording capabilities
  - › Internal storage\*
  - › External flash drive via USB-C\*
  - › On a PC via multi-channel USB connection
- » Hands-free mode (16 microphones)
  - › With speaker detection
- » DSP mode (8x8)
- » Fail-safe redundancy technology
- » For systems up to 50 units
- » System volume
- » Power button\*
- » Recording button\*
- » Secure API
- » IEEE802.1X\*

## Connectivity

- » 4 Bus connections (4 branches or 2 loops)
- » LAN connection (Control & AES-67)
- » 2x Lockable USB-C connections
  - › Flash drive interface\*
  - › Hybrid meeting Interface
  - › Multi-channel audio interface
- » 2x Balanced XLR inputs
- » 2x Balanced XLR outputs
- » 1x Front-facing 3.5mm input jack
  - › Line or Microphone level\*
- » 1x Front-facing 3.5mm output jack
  - › Line or Headphone level\*
- » 1x Power connection

## Specifications

Mechanical		
Material and color	Aluminium, Black (RAL 9011)	
Size (W x D x H)	48 x 17 x 4,5 cm	
Size packed (W x D x H)	57 x 42 x 6,4 cm	
Weight	3,36 kg	
Weight packed	2,48 kg (without PSU)	
Electrical		
Power supply external power adapter	External 100-240 VAC 50/60 Hz 2.5 A	
Power supply central unit	48 VDC 4.4 A	
Power supply output to power units	48 VDC 3.35 A Max 180 W	
Network - LAN		
Link speed	10/100 Mbps - 1 Gbps	
Security	802.1X* (MD5, TLS, PEAP-MSCHAPv2)	
Power control*	WoL	
Network - Conference		
Cable type	CAT 5E or better, shielded, SFTP, AWG 24, shielded RJ45 connector	
Max. length between units	80 m	
Max. length within loop	400 m	
Interfaces - Analog Audio Output	Balanced outputs (back)	Unbalanced output (front)
Signal level*	N/A	Line / Headphone
Number of interfaces	2	1
Connection type	XLR	3.5 mm jack
Max. Output level	+10 dBV	0 dBV
Load impedance	> 600 Ω	> 16 Ω
SNR (in dB A Weighted)	> 95	> 90
THD @ -10 dBV	< 0.01%	< 0.01%
Interfaces - Analog Audio Input	Balanced inputs (back)	Unbalanced input (front)
Signal level*	N/A	Line / Microphone
Number of interfaces	2	1
Connection type	XLR	3.5 mm jack
Max. input level	+10 dBV	0 dBV
Input impedance	> 10 KΩ	> 16 Ω
SNR (in dB A Weighted)	> 95	> 90

Interfaces - USB		Port 1	Port 2
Working modes		Audio device 1x1 (UAC2, 16 bit, 32 kHz) or Mass storage host *	Audio device 8x8 (UAC2, 16 bit, 32 kHz) or Mass storage host*
Power delivery	5 V - 0.5 A		
Power Sink	5 V - Sense only		
USB Version	USB 2.0		
Connector	USB-C		
Interfaces - Configuration Switches (*)		Function	
DIP 1	Disable auto start		
DIP 2	Disable front panel		
DIP 3	Wake on Lan		
DIP 4	ECO mode		
Audio Recording*			
Storage - Internal	3 GB		
Storage - External	USB flash drive (NTFS or FAT32)		
Format	MP3, WAV		
Quality	64, 128,196,256 kbps		
Environmental			
Operating temperature	5 - 45°C		
Regulatory			
Europe	CE		

\* Available in future updates

### Compatible Browsers

- » Google Chrome (version 124 or higher)
- » Microsoft Edge (version 124 or higher)

### Compatible Products

- » **Discussion units**
  - > D-Cerno D-SL 71.98.0306
  - > D-Cerno C-SL 71.98.0307
  - > D-Cerno F-DM 71.98.0311
  - > D-Cerno F-CM 71.98.0312
- » **Spare Power Supply** **71.98.0340**
- » **D-Cerno Advanced License** **71.98.0360**
  - > Required for
    - > Multi-channel USB
    - > AES-67
    - > DSP Mode
    - > Custom audio routing
    - > Operator mode with microphone control

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