



Product Overview:

The Digital Discussion CUR is the heart of the discussion system designed to control & record small to mid-sized meetings, but is powerful enough to control up to 50 delegate units. It can also be expanded up to 150 units by using multiple Central Units.

By connecting a USB device to the CUR, it has the ability to record all of the audio present in the meeting for future playback and archive. The recording parameters are versatile allowing adjustment of the file type and size depending on the requirements. It is possible to connect the CUR to the local network through the LAN connector. This makes it possible to control the recording and configuration by web browser on your PC or mobile device.

The stylish appearance of the Digital Discussion CUR matches the microphone units allowing it to be placed on a table in the room, creating a stylish ensemble. Additionally, because it doesn't have a fan, it can be located near the chairman without the concern of fan noise.

The CUR features four (4) RJ-45 outputs which the microphone units can be connected in a daisy chain over the digital network. Depending on the topology of the room, each CUR has the ability to use the four (4) ports as either branches or two (2) closed loops. When cabled in loop, the built-in redundancy method guarantees that the system will continue to work even if a cable were to break or become disconnected.

The CUR also has the necessary inputs and outputs for connecting to other equipment such as audio mixers, teleconferencing units, handheld microphones, etc. The Digital Discussion System is designed to work out-of-the box, with minimal technical expertise required. Control of the system is easy and intuitive via the touch sensor buttons and a large LCD menu or via the integrated web server. The possible conference modes are Direct Access, Request-to-Speak, Push-to-Talk, FIFO and Voice Activation (VOX).

Highlights:

- Integrated digital recording to a USB device
- Controls and powers up to 50 microphone units
- Webserver system settings control
- Two (2) USB ports for recording backup protection
- Stylish design, matching the contribution equipment
- Up to eight (8) open microphones
- Fail-safe redundant cabling
- Touch sensor button technology
- Integrated menu LCD
- Digital signal processing

- Eco friendly stand-by mode
- Built-in digital acoustic feedback reduction
- Fanless for silent operation

Includes:

- One (1) D-Cerno-CUR Digital Discussion Central Unit w/Digital Recording
- One (1) D-Cerno-PS Digital Discussion Power Supply
- One (1) US Line Cord
- One (1) Shielded Cat5e STP Cable 6.6 ft. (2 m)

Architectural Specification:

- The central control unit shall configure and control the delegate and chairman units using digital signal processing technology.
- The central control unit shall have an onboard digital feedback suppression circuit to prevent acoustic feedback and Larsen.
- The central control unit is capable of handling 50 units.
- There will be an integrated recording function that provides audio recording in .wav or .mp3 format. The recordings will be stored on a mass storage device via the USB connections at the front of the unit.
- There will be an indication whenever the storage becomes critical. If a second USB memory device is inserted in the additional USB slot, automatically the recording will be started on the second USB device.
- The control of the recording function shall be possible on the unit itself via direct controls or via the integrated web server.
- The unit shall have an integrated web server for control and configuration. The connection between the central unit and a PC will be established via a LAN connection.
- No software will need to be installed on a PC to connect to the central unit. Via a standard web browser it will be possible to control for more units shall be possible by connecting several central control units in a master slave connection. A total of three central units can be interconnected to make a system of 150 units.
- The unit has 4 digital bus connections that can be configured in a branch or loop configuration. Each output can drive up to 20 delegate units.
- The connection towards the contribution units shall be over Cat5 cabling using RJ45 connectors.
- The loop configuration guarantees a fail-safe system if a cable or unit might be defective, in this situation all units in the system will stay operational.
- The system shall be an out of the box solution, so no initialization shall be required once the system is powered on.
- Monitoring of the ongoing meeting can be performed via the headphone connector.
- The control unit operates as a standalone system without the need of a central operator.
- The large LCD display on the unit will allow easy access to all the necessary controls and configurations of the system.
- The menu shall be intuitive and will give direct feedback towards the user regardless of the position within the menu.
- The operation of the menu shall be done via touch sensitive buttons avoiding mechanical moving parts and thus increasing the lifespan of the units. The unit shall be easy to clean or disinfect.
- The number of microphones that can be open at the same time shall be maximum 8.
- The system shall have several microphone modes to moderate the meeting:
 - Direct Access - Delegates can activate the microphone till the maximum of open microphone is reached.
 - Request - Delegates that push the microphone button request the floor and will be added in a queue. Their microphone will be activated in order of request by the chairman with the use of its next-to-speak button.

- Push to Talk - Delegates shall be able to speak as long as they hold their finger on the microphone button.
- FIFO - In this mode the delegates shall override each other by activating their microphone. Only one microphone can be active at any given time.
- VOX - The microphone of the delegates will be activated based on the fact that they start to talk. Once they stop talking the microphone will automatically be switched off.
- The visual appearance of the central control unit shall match the design of the delegate units.
- It will have no fan and thus be absolutely silent. It will hence not distract the meeting if the central unit(s) is/are placed on the conference table.
- The system shall have an ECO function going into low power mode after the system has not been for a certain period.
- It shall be possible to connect the system to other A/V equipment:
 - External PA (room audio system)
 - External wireless/wired microphones
 - Tape recorder or other recording devices
 - Audio equipment (e.g. background music)
 - Video / audio conferencing equipment
 - External equalizer / Mixing board
- Following connections shall be available to couple these systems:
 - 1 Balanced XLR input
 - 1 Unbalanced RCA input
 - 2 Unbalanced RCA outputs
- Next to these external connections the system has the following specific connections:
 - Bus connections (4 branches or 2 loops)
 - Master / Slave bus connection
 - Lockable power connection
 - LAN connector
 - 2 USB connections/slots
- The central unit shall have the following controls and indicators:
 - Mains on / off switch
 - Power on indication
 - System volume control
 - 4 menu buttons and LCD display

Product Specification: Digital Discussion Central Unit w/ Digital Recording	
Audio	
Frequency Response	25Hz to 15KHz (+/-3dB)
THD	≤ 0.02%
Quality	16 Bit Digital
Controls	
Volume	Two (2) touch buttons "-" and "+" for control of the system loudspeaker volume.

Recording	Three (3) touch buttons for control of the recordings "□□□" = Start, "ⓧ" = Stop and " w" = Play/Pause
Push Buttons	Touch toggle button to power on/off the CUR.
Push Buttons	Four (4) touch buttons "^", "<", ">" and "v" used for navigating the menu.
Indicators	
Power LED	Red = Off (System Standby)
LED Bar	Lit when the CUR is on and ready to use.
Audio Input Status LEDs	Two (2) LEDs (one for each input) indicate when there is detectable audio present on the input.
Audio Output Status LEDs	Two (2) LEDs (one for each output) indicate when there is detectable audio present on the output.
Interconnections	
LAN	RJ45 for connection to LAN (active only on D-CERNO-CUR)
USB	Two (2) USB ports for connecting a recording storage device.
D-Cerno Network	Four (4) RJ45 connections for microphone units.
D-Cerno Network	Two (2) RJ45 connections for additional Central Units in Master/Slave Configuration.
Audio Inputs	One (1) Un-balanced RCA connector
Audio Outputs	Two (2) Un-balanced RCA connectors
Power Connection	Lockable 0.4 in. (10 mm) 4-pin DIN Type Connection
Headphone Connector	One (1) 3.5 mm (0.14 in.) mono headphone connector
Power	
Power Supply	48 VDC 3.34A
Power Consumption	130 Watts
Physical	
Height	1.97 in. (50 mm)
Width	11.81 in. (300 mm)
Depth	5.31 in. (135 mm)
Color	Black
Shipping Weight	7.0 lbs. (3.2 kg)
Mounting	Tabletop
Weight	1.4 lbs. (0.6 kg)

D-Cerno-CUR

Digital Discussion Central Unit w/ Digital Recording



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