



# ADN

## ADN conference System

### FEATURES

- Supports conferences with up to 400 discussion units
- High speech intelligibility through super-cardioid mic capsules
- USB Conference recording
- Graphical user menu in 13 languages
- Electronically balanced XLR In- and Output
- Open Media Control Protocol over Ethernet (compatible to Crestron and other brands)
- Permanent malfunction monitoring and error diagnostics
- Integrated PC with pre-installed control software



The digital discussion system ADN powers and controls up to 400 connected delegate and chairperson units. It offers full configuration in a quick and easy way over the menu display in several languages. Alternatively the integrated software package, Conference Manager<sup>®</sup> can be used directly on the CU1 by connecting a Screen (VGA), Mouse and Keyboard (USB).

The intuitive workflow of the conference manager allows a fluent monitoring and control of the conference. With its low-noise fan the central unit can be used directly in the meeting without disturbing it. The digital delegate unit ADN D1 and the digital chairperson unit ADN C1 offer high speech-intelligibility in a modern design. The gooseneck microphone is equipped with a super-cardioid capsule that attenuates unwanted ambient noise efficiently. A twin-loudspeaker system guarantees a homogenous sound level in the meeting room. The cabling of the units, which is done by CAT5 cables and hidden connections can be optionally secured with strain reliefs for fixed installations. The ADN PS Power Supply allows the extension of up to 400 conference units to the ADN CU1 central unit. It also increases the failure-safety of the system by allowing redundant ring-cabling on its four conference ports.

### SPECIFICATIONS

Operating voltage	52.8 V <sub>DC</sub> (ADN Bus)
Frequency response	100 – 14.000 Hz
Total harmonic distortion	< 0.01 % A-weighted at +6 dBV IN, OUT
Input voltage range	-18 to +18 dBu (XLR IN)
Output level	max. +10 dBV
Signal-to-noise ratio	> 80 dB A-weighted at +18 dBV
Operating temperature	+5 °C to +50 °C (+41 °F to +122 °F)
<b>Dimensions (W x H x D)</b>	
CU1	417 x 100 x 345 mm (16.4" x 3.94" x 13.58")

PS (without rack-mount brackets and rubber feet)	417 x 100 x 168 mm (16.4" x 3.94" x 6.61")
C1 (without gooseneck)	185 x 63 x 140 mm (7.28" x 2.48" x 5.51")
D1 (without gooseneck)	185 x 63 x 140 mm (7.28" x 2.48" x 5.51")
<b>Weight</b>	
CU1	approx. 6,500 g (14.3 lbs)
PS	approx. 4,600 g (10.14 lbs)
C1	approx. 700 g (1.5 lbs)
D1	approx. 700 g (1.5 lbs)



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### ARCHITECT'S SPECIFICATION

A digital discussion system comprised of a central control unit and remote delegate and chairperson discussion units is provided; optional power supplies/system expanders shall be provided. The digital discussion system shall be capable of powering and controlling up to 400 connected delegate and chairperson units (using optional power supplies/expander units). The digital discussion system central control unit shall provide an intuitive integrated software control display interface; the graphical user menu shall display in 13 languages and allow fault monitoring and error diagnostics, and control of the conference. Alternatively, the central control unit software shall be accessible by connecting a standard VGA monitor, keyboard and mouse (USB). An Ethernet port shall be provided for network connection and control through third party digital control systems (Crestron, AMX, etc.). USB recording capability shall be provided for the conferencing program audio. The central control unit shall include a low-noise cooling fan for use directly in meeting rooms without noise disturbance.

The digital delegate unit and the digital chairperson unit shall offer high speech-intelligibility. The digital delegate unit and the digital chairperson unit shall have a modern chassis design. The digital delegate unit and the digital chairperson unit shall be equipped with a goose-neck microphone with a super-cardioid capsule; the units shall provide a twin-loud-speaker system.

Interconnection of the central control unit and the digital delegate units and the digital chairperson units shall be accomplished using standard Category 5 cables; connections underneath the digital delegate unit and the digital chairperson unit shall be provided for hidden cabling connections that shall be optionally secured with strain reliefs for fixed installations.

The digital discussion system central control unit shall be capable of powering and controlling up to 40 stand alone digital delegate units and/or the digital chairperson units (depending on cable length). The addition of optional cascable power supply units shall allow the expansion of the conferencing system to up to 400 digital delegate units and/or the digital chairperson units to the central control unit; use of the optional power supply unit shall allow redundant ring-cabling on its four conference ports, providing increased failure-safety between the central control unit and the digital delegate units and the digital chairperson units.

The operating voltage of the proprietary control bus shall be 52.8 V<sub>DC</sub>. Audio frequency response of the system shall be 100 – 14,000 Hz; total harmonic distortion shall be < 0.01% A-Weighted at +6 dBV in/out. Audio signal input voltage range shall be -18 to +18 dBu (XLR in); maximum output level shall be +10 dBV. Signal-to-noise ratio shall be >80 dB A-Weighted at +18 dBV.

Operating temperature shall be from +5 °C to +50 °C (+41 °F to +122 °F). Unit housing dimensions shall be as follows: Central control unit, 417 x 100 x 345 mm (16.4" x 3.94" x 13.58"); Digital delegate unit and the digital chairperson unit, 185 x 63 x 140 mm (7.28" x 2.48" x 5.51"); Power supply unit, 417 x 100 x 168 mm (16.4" x 3.94" x 6.61").

Approximate unit weights shall be as follows: Central control unit, 6,500 g (14.3 lbs); Digital delegate unit and the digital chairperson unit, 700 g (1.5 lbs); Power supply unit, 4,600 g (10.1 lbs).

All units shall be manufactured by Sennheiser and shall be as follows:

Central control unit shall be type ADN CU1; Chairperson unit shall be type ADN C1; Delegate unit shall be type ADN D1; Power supply unit shall be type ADN PS.

### PRODUCT VARIANTS

<b>ADN D1 Delegate unit</b>		Art. no. 502758
<b>ADN C1 Chairperson unit</b>		Art. no. 502759
<b>ADN CU1 central unit</b>	EU	Art. no. 505553
	UK	Art. no. 505554
	US	Art. no. 505555
<b>ADN PS</b>	EU	Art. no. 505546
	UK	Art. no. 505547
	US	Art. no. 505548

### ACCESSORIES

ADN TR1, ADN strain relief		Art. no. 504001
<b>CAT 5 cables</b>		
SDC CBL RJ45-2	2 m	Art. no. 009842
SDC CBL RJ45-3	3 m	Art. no. 009843
SDC CBL RJ45-5	5 m	Art. no. 009844
SDC CBL RJ45-10	10 m	Art. no. 009845
SDC CBL RJ45-20	20 m	Art. no. 009846
SDC CBL RJ45-50	50 m	Art. no. 009847



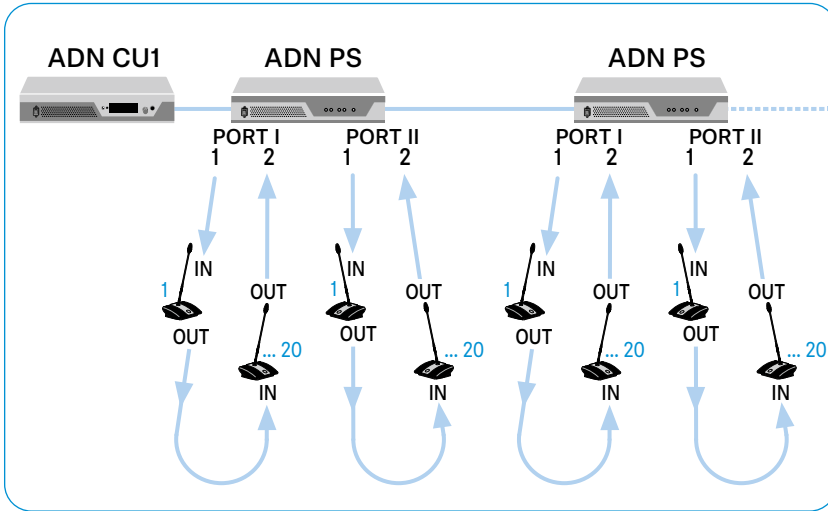
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### CONNECTIVITY

#### Sample System Configurations

Two redundancy ports



Four daisy-chain ports

