



ADN/ADN-W

When it counts.

SENNHEISER

# Audio Distribution Network (ADN)

Structure, substance and clarity are the fundamentals of successful communication; these are the outstanding characteristics of the ADN digital conference solution. Sennheiser's top-quality sound, design, and manufacture mean that, with the ADN Digital conference solution, you will create an ideal environment for a successful conference.



## Chairman & delegate units



### ADN C1

The digital chairperson unit ADN C1 offers high speech-intelligibility in a modern design. The goose-neck 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.



### ADN D1

The digital delegate unit ADN D1 offers high speech-intelligibility in a modern design. The goose-neck 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.



### Optimum speech intelligibility

Equipped with a most effective feedback suppression



### Unobtrusive design

Harmonizes seamlessly with any existing room concept



### Reduced system cost

Less implementation costs and minimized setup time mean you can handle projects more efficiently



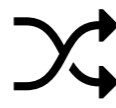
### Plug and play system

With automatic unit initialisation



### Wireless integration

For a quick and flexible setup



### Flexibly combinable

No matter if you choose a wired solution (ADN), a wireless one (ADN-W) or a combination of both

## Central unit



### ADN CU1

The digital discussion central unit ADN CU1 powers up to 40 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 can be used directly on the CU1 by connecting a screen, mouse and keyboard.

## Power supply



### **ADN PS**

The cascable ADN PS Power Supply allows the extension of the conference and discussion system to up to 400 conference units. It also increases the failure-safety of the system by allowing redundant ring-cabling (redundancy rings) on its two double conference ports. Up to 40 units can be connected in two rings and up to 70 units in alternative branch cabling (daisy-chain branches). Status LEDs at the front of the 19" rack-mount unit indicate the type of cabling to easily monitor the system.

## Installation kit



### **ADN IK1**

The ADN Installation Kit allows a very easy and elegant installation of ADN D1 or C1 wired units into conference tables. One set comes with 5 units of Top and Bottom frames for easy installation of the ADN conference units.



## Audio Distribution Network Wireless (ADN-W)

The ADN-W system is an ideal solution for applications in assemblies, congress centers or smaller conference rooms where no fixed audio infrastructure is installed. The wireless delegate and chairperson units can be freely positioned on the tables and shared between delegates if necessary.



### Chairman & delegate units



#### ADN-W D1

The ADN-W D1 wireless delegate unit offers excellent speech intelligibility and ease of use. Powered by the exchangeable ADN-W BA battery pack, the unit offers more than 20 hours operating time. The delegate unit features a microphone key that functions either as an on/off switch or as a request-to-speak button. The unit is equipped with a high-performance broadband twin loudspeaker system for decentralized sound reinforcement.

#### ADN-W C1

The ADN-W C1 wireless chairperson unit offers excellent speech intelligibility and ease of use. Powered by the exchangeable ADN-W BA battery pack, the unit offers more than 20 hours operating time. The chairperson unit features a microphone key that functions either as an on/off switch or as a request-to-speak button, a Next key to grant speaking privileges and a Priority key to deactivate all active conference units. The unit is equipped with a high-performance broadband twin loudspeaker system for decentralized sound reinforcement.



### Central unit



#### ADN CU1

The digital discussion central unit ADN CU1 powers up to 40 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 can be used directly on the CU1 by connecting a screen, mouse and keyboard. 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.



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Equipped with a most effective feedback suppression



#### Unobtrusive design

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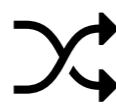
#### Plug and play system

With automatic unit initialisation



#### Wireless integration

The new wireless units allow for a quick and flexible setup



#### Flexibly combinable

Integrative technology and simply more flexibility – no matter if you choose a wired solution (ADN), a wireless one (ADN-W) or a combination of both

## Antenna



### ADN-W AM

The ADN-W AM antenna module is designed to ensure reliable wireless bidirectional communication with the ADN-W D1 and C1 wireless conference units in both the 2.4 GHz and the 5 GHz frequency band. The antenna module easily connects to the ADN CU1 central unit via the ADN bus cable. The ADN-W AM features a built-in 5/8" mounting thread (with a 3/8" thread insert) that allows easy mounting on walls or ceilings.

## Battery



### ADN-W BA

The ADN-W BA Lithium-Ion battery pack is designed for powering the ADN-W C1 and ADN-W D1 wireless conference units. A fully charged battery pack offers an operating time of more than 20 hours.

## Microphones



### ADN-W MIC

The ADN-W MIC gooseneck microphones are detachable and available with different capsules and in different lengths. The ADN-W MIC 15 variants are equipped with a Sennheiser super-cardioid capsule whereas the ADN-W MIC 36 versions include the famous Sennheiser ME 36.

## Charger



### ADN-W L10

The ADN-W L 10 charger simultaneously charges up to 10 ADN-W BA battery packs. The charger can be mounted in a 19" rack.

## Power supply



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## Case



### ADN-W CASE

The ADN-W CASE transport and charging case contains three dedicated, stackable modules. Due to its modular design, the ADN-W CASE transport and charging case can be easily adapted to the size of the conference system.

## Audio Distribution Networks



Specification	ADN CU1-II	ADN C1	ADN D1
Dimensions	417 x 100 x 345 mm	185 x 63 x 140 mm (without gooseneck)	185 x 63 x 140 mm (without gooseneck)
Frequency response	100 Hz – 14.0 kHz		
Input voltage range	-18 dBu to +18 dBu (XLR IN)		
Operating voltage (stand alone)		35 V à 52.8 V CA	35 V à 52.8 V CA
Output voltage	52.8 V (ADN Bus)		
Pick-up pattern		Super-cardioid	Super-cardioid
Signal-to-noise ratio	> 80 dB(A) weighted at +11 dBu		
THD, total harmonic distortion	< 0.01 % A-weighted at +6 dBV IN, OUT	0.03 % at 50 mW / 16 Ω	0.03 % at 50 mW / 16 Ω
Weight	approx. 6.5 kg	approx. 700 g	approx. 700 g

## Audio Distribution Networks



Specification	ADN-W C1	ADN-W D1	ADN PS	ADN-W AM
Dimensions	185 x 180 x 67 mm (W - L - H)	185 x 180 x 67 mm (W - L - H)	482.5 x 168 x 100 mm (W - L - H)	226 x 58 x 181 mm (W - L - H)
Frequency range	2.4 / 5.1 - 5.9 GHz	2.4 / 5.1 - 5.9 GHz		2.4 / 5.1 - 5.9 GHz
Frequency response	100 Hz – 14.5 kHz	100 Hz – 14.5 kHz		
Input voltage range	100 - 240 VAC / 50 - 60 Hz			
Operating time	approx. 20 h with battery pack	approx. 20 h with battery pack		
Output voltage	4 x 52.8V max. 1.75A per port			
Power supply	7.4 VDC via ADN-W BA	7.4 VDC via ADN-W BA		12 to 15 VDC
RF output power	25 to 100 mW	25 to 100 mW		25 to 100 mW
Weight	approx. 940 g	approx. 940 g	approx. 4.6 kg	approx. 1.66 kg
Power consumption				6 W
Max. coverage area				30 m radius
Connector				3 rod antennas/ omni-directional with R-SMA connector

## ADN-W MICS



Specification	ADN-W MIC 15-39	ADN-W MIC 15-50	ADN-W MIC 36-29	ADN-W MIC 36-50
Connector	proprietary connector	proprietary connector	proprietary connector	proprietary connector
Dimensions	approx. 390 mm	approx. 500 mm	approx. 290 mm	approx. 500 mm
Frequency response (microphone)	190 Hz - 14.5 kHz	190 Hz - 14.5 kHz	40 Hz - 20 kHz	40 Hz - 20 kHz
Max. sound pressure level	120 dB	120 dB	130 dB	130 dB
Operating relative humidity	20 to 80 %	20 to 80 %	20 to 80 %	20 to 80 %
Operating temperature	5 °C to 45 °C	5 °C to 45 °C	5 °C to 45 °C	5 °C to 45 °C
Pick-up pattern	super-cardioid	super-cardioid	hyper-cardioid	hyper-cardioid
Sensitivity	38 mV / Pa	38 mV / Pa	18 mV / Pa	38 mV / Pa
Weight	98 g	116 g	98 g	116 g

