



ADN-W C1 / D1

Wireless Units

ADN C1 / D1

Wired Units

Instruction manual

SENNHEISER

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For your safety



Please make sure to read the “Safety information” supplement included separately with the ADN CU1 central unit. This supplement contains important information on the safe operation of the ADN conference system as well as the manufacturer’s declaration and warranty notes.

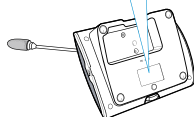
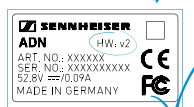
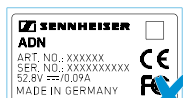


A detailed instruction manual for the overall ADN conference system can be found

- on the Internet at www.sennheiser.com or
- on the DVD-ROM supplied with the ADN CU1 central unit.

The ADN D1/C1 and ADN-W D1/C1 conference units

The ADN D1 wired delegate unit and the ADN C1 wired chairperson unit as well as the ADN-W D1 wireless delegate unit and the ADN-W C1 wireless chairperson unit are part of the Sennheiser ADN conference system.



To ensure full operational reliability in a redundant ring topology, the hardware of the ADN C1 and ADN D1 has been revised. If you combine conference units with hardware revision 1 (no marking on the type plate) and conference units with hardware revision 2 (“HW: v2” is printed on the type plate), fail-safe operation is only possible to a limited extent.

- ▷ In a redundant ring topology, only use conference units with hardware revision 2.

Package contents

ADN standard system components

- 1 ADN D1 delegate unit
or ADN C1 chairperson unit
- 1 Instruction manual



The ADN D1 and ADN C1 wired conference units are ready for operation upon delivery. You have to connect the conference units to the ADN CU1 central unit by means of system cables (detailed information can be found in the ADN system manual).

ADN wireless components

Console of the wireless conference unit

- 1 Console of the ADN-W D1 wireless delegate unit or ADN-W C1 wireless chairperson unit (**without** battery pack and gooseneck microphone)
- 1 Instruction manual

Wireless conference unit kit for delegate unit

- 1 Console of the ADN-W D1 wireless delegate unit
- 1 ADN-W BA Lithium-Ion battery pack
- 1 Gooseneck microphone
(ADN-W MIC 15-39 or 36-29, depending on version of the kit)
- 3 Instruction manuals (one for the wireless conference unit, one for the battery pack and one for the gooseneck microphone)



For operating a wireless conference unit, you additionally require one ADN-W BA battery pack and one ADN-W MIC 15 or ADN-W MIC 36 gooseneck microphone.

Components required for operation



Wired and wireless components can be combined arbitrarily.

Central unit			
Number	Description	Cat. No.	Function
1	ADN CU1-EU central unit, EU version	505553	Controls the conference (wired and wireless components) and supplies power to a max. of 40 conference units and/or one antenna module
	ADN CU1-UK central unit, UK version	505554	
	ADN CU1-US central unit, US version	505555	

Wired standard components

Power supplies			
Number	Description	Cat. No.	Function
1 - 15 (optional)	ADN PS-EU power supply, EU version	505546	Supplies power to conference units connected in simple strings or in redundant ring topology, for conferences with up to 400 conference units
	ADN PS-UK power supply, UK version	505547	
	ADN PS-US power supply, US version	505548	

Conference units			
Number	Description	Cat. No.	Function
max. 400	ADN D1 delegate unit	502758	Allows to make contributions to the conference
1 - 10 (optional)	ADN C1 chairperson unit	502759	Allows to manage the conference

Components required for operation

System cables

The system cables are black and have two shielded RJ45 plugs.

Number	Description, length	Cat. No.	Function
Divers	SDC CBL RJ45-2, 2 m	009842	Allows to interconnect components and conference units
	SDC CBL RJ45-3, 3 m	009843	
	SDC CBL RJ45-5, 5 m	009844	
	SDC CBL RJ45-10, 10 m	009845	
	SDC CBL RJ45-20, 20 m	009846	
	SDC CBL RJ45-50, 50 m	009847	

Wireless components

Antenna module

Number	Description	Cat. No.	Function
1 - 4	ADN-W AM antenna module	504743	Allows to transmit data via RF
	ADN-W AM-US antenna module US-version	505715	

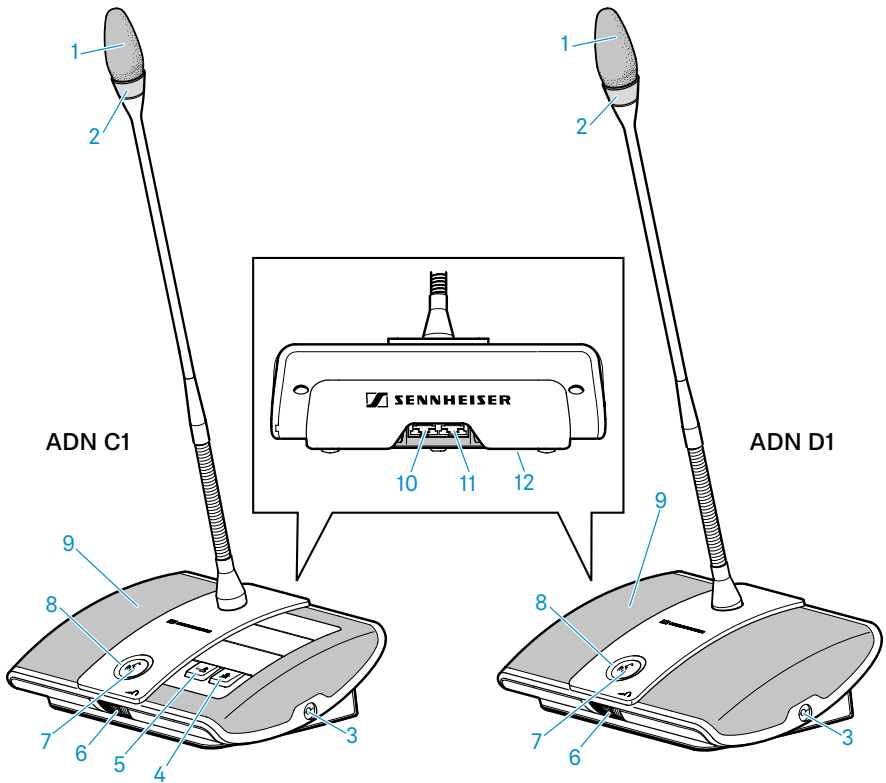
Wireless conference units




Number	Description	Cat. No.	Function
max. 150	ADN-W D1 wireless delegate unit	504748	Allows to make contributions to the conference
1 - 10 (optional)	ADN-W C1 wireless chair-person unit	504745	Allows to manage the conference
depending on the number of wireless conference units	ADN-W BA battery pack	504744	Supplies power to wireless conference units
	ADN-W MIC 15-39	504750	Gooseneck microphones to make contributions
	ADN-W MIC 36-29	504751	
	ADN-W MIC 15-50	504752	
ADN-W MIC 36-50	504753		



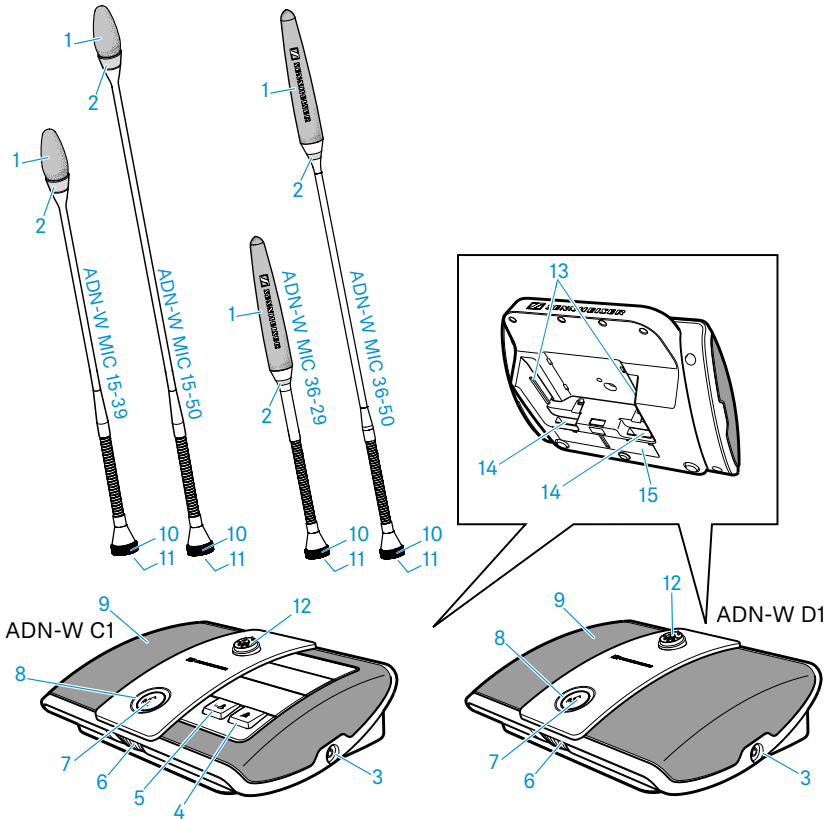
Additional accessories for the ADN conference system can be found at www.sennheiser.com.

Product overview ADN D1/C1



- | | | | |
|---|--|----|--|
| 1 | Sound inlet basket with glued windshield | 7 | Microphone key  |
| 2 | Signal light ring | 8 | Microphone LED |
| 3 | Headphone socket | 9 | Loudspeaker |
| 4 | Priority key  | 10 | IN socket |
| 5 | Next-key  | 11 | OUT socket |
| 6 | Headphone volume control for headphone socket | 12 | Type plate (see bottom) |

Product overview ADN-W D1/C1



1 Sound inlet basket with glued wind-shield
 ADN-W MIC 15: glued windshield
 ADN-W MIC 36: plug-on windshield

2 Signal light ring

3 Headphone socket

4 Priority-key

5 Next-key

6 Headphone volume control for
 headphone socket

7 Microphone key

8 Microphone LED

9 Loudspeaker

10 Fastening thread

11 Sliding contacts

12 Microphone connection

13 Guide rails for ADN-W BA
 battery pack

14 Connection for ADN-W BA
 battery pack

15 Type plate

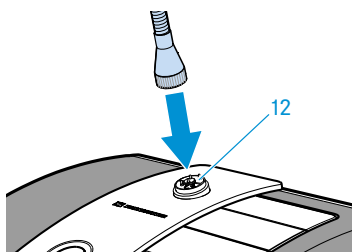
Preparing the ADN-W D1/C1 wireless conference units for operation

To operate the wireless conference unit, you have to connect a gooseneck microphone (ADN-W MIC 15 or ADN-W MIC 36; available in different lengths) to the console of the conference unit. The ADN-W BA battery pack supplies power to the wireless conference unit. The conference system automatically recognizes if the connected wireless conference unit is a chairperson unit (ADN-W C1) or a delegate unit (ADN-W D1) and initializes it automatically. Information on how to configure the wireless conference components can be found in the ADN system manual or in the instruction manuals of the ADN CU1 central unit and the ADN-W AM antenna module.



If you do not connect a microphone to the wireless conference unit, you can use the console as a loudspeaker to output the floor channel.

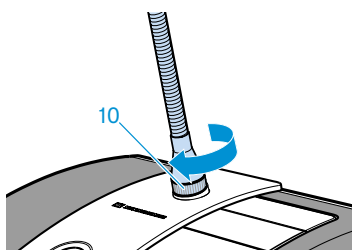
Screwing on/unscrewing the ADN-W MIC 15/36 gooseneck microphone



To **screw on** the gooseneck microphone:

- ▷ Put the gooseneck microphone onto the microphone connection **12**.
- ▷ Screw the microphone to the microphone connection by turning the fastening thread **10** clockwise.

The microphone is securely connected to the conference unit.



To **unscrew** the gooseneck microphone:

- ▷ Unscrew the microphone by turning the fastening thread **10** counterclockwise.
- ▷ Carefully remove the gooseneck microphone from the microphone connection.

Function check of the microphone

After switch-on, the wireless conference unit checks the proper functioning of the gooseneck microphone.

If errors occur during the check of the microphone, the microphone LED **8** and, if the microphone is power supplied, the signal light ring **2** flash red rapidly and the microphone is automatically deactivated.

Preparing the ADN-W D1/C1 wireless conference units for operation

- ▷ Replace the defective microphone by a new one.

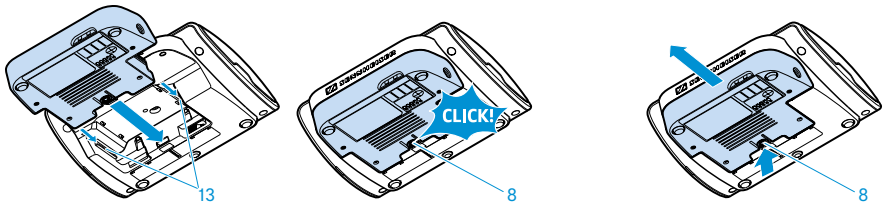
If you screw the microphone to or unscrew it from the wireless conference unit during operation (wireless conference unit is switched on), proper functioning of the conference unit cannot be guaranteed, i.e. volume differences or noise may occur.

- ▷ First connect the microphone and then switch the conference unit on.

Inserting/removing the battery pack

To **insert** the ADN-W BA battery pack into the wireless conference unit:

- ▷ Check the battery pack before using it in order to ensure sufficient battery capacity and to exclude a defective battery pack (see the instruction manual of the battery pack).
- ▷ Charge the battery pack if necessary (see the instruction manual of the battery pack).
- ▷ Slide the battery pack into the battery guide rails **13** of the wireless conference unit.



The battery release clip **8** locks into place with an audible click and secures the battery pack.

To **remove** the battery pack from the wireless conference unit:

- ▷ Press the battery release clip **8** and pull the battery pack out of the battery guide rails.

Switching the wireless conference unit on/off

To switch the wireless conference unit **on**:

- ▷ Press the microphone key **7**.

The microphone LED **8** and the signal light ring **2** flash red and the RF status indicator **2** on the ADN-W BA battery pack flashes blue slowly. Once the initialization process is complete and after connection to the ADN-W AM antenna module is established, the microphone LED **8** and the signal light ring **2** go off. The RF status indicator **2** on the ADN-W BA battery pack indicates the transmission quality:

Preparing the ADN-W D1/C1 wireless conference units for operation

	Status-LED	RF status indicator 2
	Color	Meaning
	-	good transmission quality
	blue, flashing slowly	transmission quality is temporarily reduced
	blue, flashing rapidly	transmission quality is permanently reduced

i If no connection to an antenna module can be established within 5 minutes, the wireless conference unit automatically switches off.

To **switch all** wireless conference units **off**:

- ▷ Set the on/off switch of the ADN CU1 central unit to position „0“. The central unit is switched off and the display panel goes off. The ADN-W AM antenna module connected to the central unit is switched off. All switched-on and connected wireless conference units are automatically switched off after 5 minutes.

i If you are using the “Conference Manager” software, you can also switch off all wireless conference units with a mouse click (detailed information can be found in the ADN system manual).

To **switch individual** wireless conference units **off**:

- ▷ Press the microphone key **7** for 5 seconds

or:

- ▷ Remove the ADN-W BA battery pack from the conference unit (see „Inserting/removing the battery pack“).

The conference unit switches off. All LEDs go off.

i If the conference mode is set to “**Push to talk**”, you can only switch off the wireless conference unit by removing the battery pack.

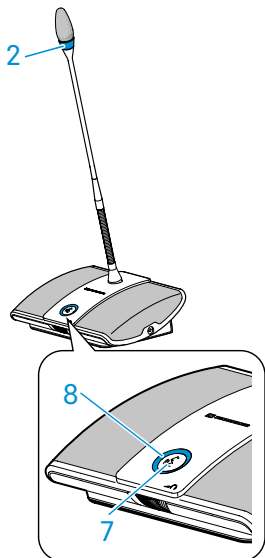
i The manual switch-off function via the microphone key can be deactivated (detailed information can be found in the ADN system manual).

Operating a delegate unit

The operation of the ADN D1 wired conference unit and the ADN-W D1 wireless conference unit is identical.

Taking the floor/Making a request to speak

If the conference mode is set to “**Direct Access**” or “**Override**” (detailed information can be found in the ADN system manual):



- ▷ Press the microphone key **7**.

Your microphone switches on and you can take the floor immediately. The microphone LED **8** and the signal light ring **2** light up red. The loudspeaker **9** is muted. Depending on the conference mode and the speaker limit set, the microphone of the previous speaker will be deactivated.

If the conference mode is set to „**Push To Talk**“:

- ▷ Press the microphone key **7** and keep it pressed for the duration of your contribution.

Your microphone switches on and you can take the floor immediately. The microphone LED **8** and the signal light ring **2** light up red. The loudspeaker **9** is muted.

If the conference mode is set to “**Request**”, you have to be granted speaking privileges:

- ▷ Press the microphone key **7**.

Depending on the setting adjusted in the operating menu (detailed information can be found in the ADN system manual)

- the microphone LED **8** flashes green and the signal light ring **2** flashes red
- or
- only the microphone LED **8** flashes green.

When the chairperson grants you speaking privileges, your microphone is activated. The microphone LED **8** and the signal light ring **2** light up red. The loudspeaker **9** is muted. Depending on the conference mode and the speaker limit set, the microphone of the previous speaker will be deactivated.

Deactivating the microphone/Canceling a request to speak

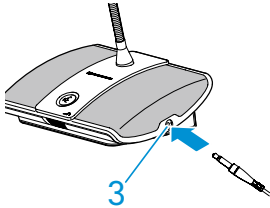
- ▷ To deactivate the microphone when you have finished speaking or to cancel a request to speak (“**Direct Access**”, “**Override**” or “**Request**” mode):

- ▷ Press the microphone key **7** once more.
The microphone LED **8** and the signal light ring **2** go off.

If the conference mode is set to “Push to talk”:

- ▷ Release the pressed microphone key **7**.
The microphone LED **8** and the signal light ring **2** go off.

Connecting headphones



- ▷ Connect headphones with a 3.5 mm jack plug to the headphone socket **3**.

Adjusting the headphone volume

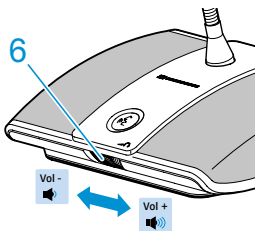


CAUTION

HEARING DAMAGE DUE TO HIGH VOLUMES!

Listening at high volume levels for long periods can lead to permanent hearing defects.

- ▷ Set the volume to a medium level.
- ▷ Do not continuously expose yourself and other conference participants to high volumes.



To adjust the volume:

- ▷ Turn the headphone volume control **6**
 - to the right to increase the volume
 - or
 - to the left to reduce the volum.
- At switch-off, the headphone volume is reset to a medium level.



The volume of the conference units' loudspeakers can be set via the central unit (detailed information can be found in the ADN system manual).

Operating a chairperson unit

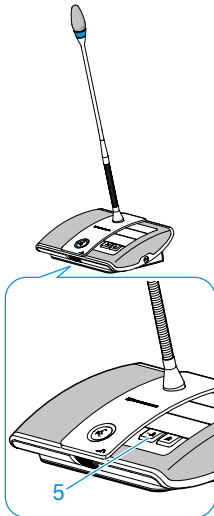
The operation of the ADN C1 wired conference unit and the ADN-W C1 wireless conference unit is identical.

Beside the chairperson functions, chairperson units offer the same functions as delegate units.

A chairperson unit allows you to take the floor at any time without having to “apply” for a comment. If your conference system comprises several chairperson units, all chairperson units have equal rights.

Granting speaking privileges

All participants who have made a request to speak will join a request-to-speak list. Depending on the setting adjusted in the operating menu:



- the microphone LED 8 flashes green and the signal light ring 2 flashes red.

or

- only the microphone LED 8 flashes green.

To grant speaking privileges to the next participant from the request-to-speak list:

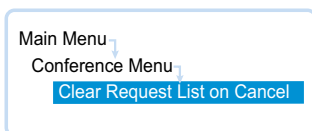
- ▷ Press the Next key 5.

The next participant from the request-to-speak list is granted speaking privileges.



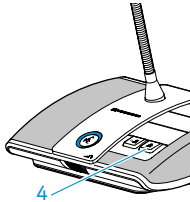
If you are using the “Conference Manager” software, you can also grant speaking privileges with a mouse click (detailed information can be found in the ADN system manual).

Ending a conference or withdrawing speaking privileges (cancel function)



- ▷ Set the function (“Clear Request List on Cancel”) of the chairperson unit’s priority key 4 via the central unit’s operating menu:

Setting	Function of the priority key
„On“	Pressing the priority key 4 deactivates all delegate units. All requests to speak are deleted.
„Off“	Pressing the priority key 4 deactivates all currently active delegate units. All requests to speak are retained.



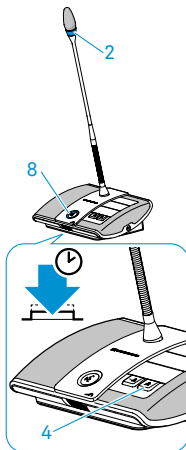
- ▷ Briefly press the priority key 4.
The conference system behaves as set.



If you are using the “Conference Manager” software, you can also deactivate all delegate units with a mouse (detailed information can be found in the ADN system manual).

Muting all delegate units temporarily (priority function)

Using the priority function, the chairperson can interrupt a discussion at any time. The speaking privileges of all chairperson units remain active at any time.



- ▷ Keep the priority key 4 pressed for as long as you want to mute the delegate units. All conference units – except for the chairperson units – are muted immediately. The microphone LED 8 and the signal light ring 2 of the previously active conference units flash red. You can take the floor immediately. The microphone LED 8 and the signal light ring 2 of your chairperson unit light up red.
- ▷ Release the priority key 4.
The muting of the conference units is canceled. The discussion is continued.

Cleaning and maintaining the conference units

Cleaning and maintaining the conference units

- ▷ Remove the ADN-W BA battery pack from the ADN-W C1 or ADN-W D1 wireless conference units (see „Inserting/removing the battery pack“).
- ▷ Only use a dry and soft cloth to clean the products.
- ▷ Clean the grids of the conference units with a soft brush or paintbrush in order to avoid dust deposits.

Specifications

ADN D1 and ADN C1 conference units

Console

Supply voltage	35 V to 52.8 V ⁻⁻⁻
Power consumption	2 W (without reproduction via loudspeakers)
Headphone socket	3.5 mm stereo jack socket
Output level at headphone socket	50 mW/16 Ω
THD (at 1 kHz)	0.03 % at 50 mW/16 Ω
Frequency response	100 Hz to 14.5 kHz
Signal-to-noise ratio	> 70 dB(A)
Temperature range	operation: +10 °C to +40 °C storage: -25 °C to +70 °C
Relative humidity	operation: 10 to 80 % storage: 10 to 90 %
Dimensions (W x H x D)	185 x 63 x 140 mm; without gooseneck
Weight	approx. 700 g

Microphone

Pick-up pattern	super-cardioid
Frequency response	190 Hz to 14.5 kHz

ADN-W D1 and ADN-W C1 wireless conference units

Console

RF frequency ranges	2.4 GHz, 5.1 to 5.9 GHz
RF output power	max. 100 mW
Audio quality	16 bit / 32 kHz
Operating time	> 20 hours (ADN-W BA battery pack)

ADN-W D1 and ADN-W C1 wireless conference units

Voltage for optional external power supply	12 V ^{DC} via ADN-W BA battery pack
Charging time of battery pack	typ. 4 hours
Headphone socket	3.5 mm stereo jack socket
Output level at headphone socket	50 mW/16 Ω
THD (at 1 kHz)	0,03 % at 50 mW/16 Ω
Frequency response	100 Hz to 14.5 kHz
Signal-to-noise ratio	> 70 dB(A)
Temperature range	operation: +5 °C to +45 °C storage: -25 °C to +70 °C
Relative humidity	operation: 20 to 80 % storage: 10 to 90 %
Dimensions (W x H x D)	185 x 67 x 180 mm; without gooseneck
Weight	approx. 940 g
Microphone	see the instruction manual of the ADN-W MIC 15 or ADN-W MIC 36 gooseneck microphone
