

CXC 700

Ear canal phones with
digital NoiseGuard
for travel



Instruction manual

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Important safety instructions

In order to prevent health problems:

- ▶ Set the volume to a low level before inserting the ear canal phones into your ears.
- ▶ Avoid listening at high volume levels for long periods of time.
- ▶ Mount the suitable ear adapters (S, M or L) to the ear canal phones. Do not insert the ear canal phones too deep into your ears and never insert them without ear adapters.
- ▶ Always insert and extract the ear canal phones from your ears very **carefully** and **slowly**.

The product generates stronger permanent magnetic fields that could cause interference with cardiac pacemakers and implanted defibrillators (ICDs).

- ▶ Always maintain a distance of at least 3.94" (10 cm) between the headphone housing and the cardiac pacemaker or implanted defibrillator.

In order to prevent accidents:

Do not use the product in an environment that requires your special attention (e.g. in traffic).

- ▶ Keep the product out of reach of children who could swallow smaller pieces.

In order to prevent damage to the product:

- ▶ Do not expose the product to excessive heat (hair dryer, heater, etc.) and do not store in direct sunlight for extended periods.
- ▶ Protect the product from humidity.

Intended use

Intended use of the product includes

- having read this instruction manual, especially the chapter "Important safety instructions",
- using the product within the operating conditions and limitations described in this instruction manual.

Important safety instructions

“Improper use” means using the product other than as described in this instruction manual, or under operating conditions which differ from those described herein.

Safety instructions for batteries

If abused or misused, batteries may leak and, in extreme cases, may even present an explosion and fire hazard. Sennheiser does not accept any liability for damage arising from abuse or misuse.



Keep out of reach of children.



Do not short-circuit.



Do not heat above 70°C/
158°F, e.g. do not expose to
sunlight or throw into a fire.



Do not mutilate or dismantle.

Important safety instructions



Do not continue to use defective batteries.



Immediately remove batteries from an obviously defective product.



Remove batteries from the product when it is not used for extended periods of time.



Do not expose to moisture.



Do not charge non-rechargeable batteries.

Delivery includes



CXC 700 ear canal phones



Ear adapters (size **S**, **M**, **L**), size **M** is pre-mounted to the ear canal phones



Diaphragm guards



Cleaning tool



In-flight adapter



Audio adapter



AAA size battery, 1.5 V



Carrying case

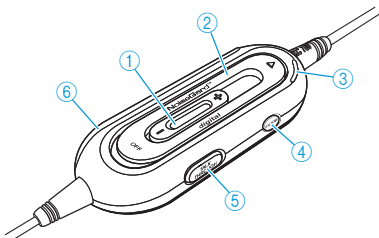


Instruction manual



Accessory parts are available from your Sennheiser partner. For a list of suitable accessory parts, please visit our website at www.sennheiser.com > "Service & Support".

Product overview



- | | |
|---------------------|-----------------------|
| ① Volume control | ④ Mode button |
| ② NoiseGard™ switch | ⑤ TalkThrough button |
| ③ LED | ⑥ Battery compartment |

LED ③ indications


LED	Meaning
lights up	NoiseGard is switched on
flashes continuously	Battery is almost flat
is off	NoiseGard is switched off

Putting the CXC 700 into operation

For powering the NoiseGard active noise compensation, an AAA size battery is required. If you are using a rechargeable battery, the operating time will be reduced.

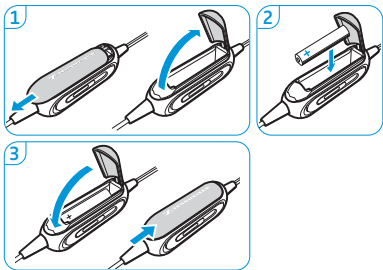
When the battery is discharged or not inserted:

- ▶ Switch NoiseGard off if you want to continue listening to your audio source (see page 13).

 When the battery is almost empty, the LED flashes continuously.

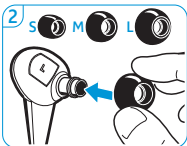
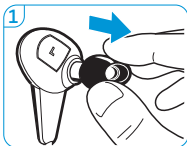
Inserting/changing the battery

- 1 Open the battery compartment. Remove the discharged battery (where applies).
- 2 Insert a new battery. Observe correct polarity when inserting the battery.
- 3 Close the battery compartment.



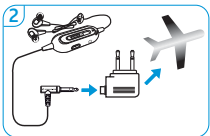
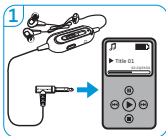
Exchanging the ear adapters

- 1 Carefully remove the ear adapters from the ear canal phones.
- 2 Mount the desired ear adapters to the ear canal phones.



Connecting the ear canal phones to the audio source

- 1 Connect the audio cable to the headphone socket of your audio source. You hear the sound from your audio source.
- 2 Slip on the in-flight adapter if you wish to use the ear canal phones with the in-flight entertainment system of the aircraft.



Using the CXC 700

Adjusting the volume/ routing the cable



WARNING

Interference due to magnetic fields!

The product generates stronger permanent magnetic fields that could cause interference with cardiac pacemakers and implanted defibrillators (ICDs).

- ▶ Always maintain a distance of at least 3.94" (10 cm) between the headphone housing and the cardiac pacemaker or implanted defibrillator.
-



WARNING

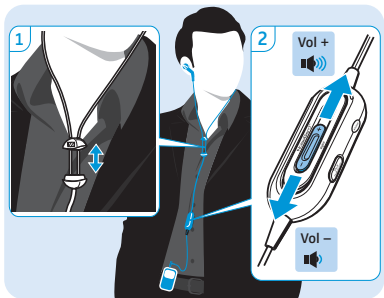
Hearing damage due to high volumes!

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

- ▶ Set the volume to a low level before using the product.
 - ▶ Do not continuously expose yourself to high volumes.
-

Using the CXC 700

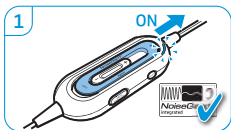
- 1 Use the cable slider to adjust the length for best fit.
- 2 Use the volume control to set the volume to a comfortable level.



Switching NoiseGard on/off

To switch the NoiseGard active noise compensation on:

- 1 Slide the **NoiseGard** switch to **ON**.
NoiseGard is switched on and your audio source is momentarily muted.



To ideally adapt the NoiseGard active noise compensation to the current noise environment, you can choose from 3 different modes:

NoiseGard Mode 1

Optimized for:	Impact:
Trains, subways, buses, cars, short distance flights	Focus on low frequency range (100 to 400 Hz)






NoiseGard Mode 2

Optimized for:	Impact:
Long-haul flights, air-conditioned rooms	Focus on mid frequency range (400 to 3,000 Hz)

NoiseGard Mode 3

Optimized for:	Impact:
On-the-go: airports, stations, crowds, places with loud surroundings in general	Balance between low and mid frequency ranges (100 to 3,000 Hz)

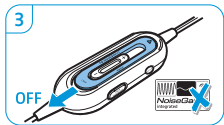
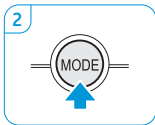
- 2 Press the **Mode** button repeatedly until external noise is optimally isolated.
The CXC 700 confirms the selected mode as follows:

Mode	LED	Beep
1		
2		
3		

Then, the LED lights up permanently again.

When the battery is completely empty, NoiseGard is deactivated. The audio source will stay muted until you switch NoiseGard off:

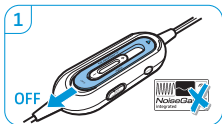
3 Slide the **NoiseGard** switch to **OFF**.



Individually adapting NoiseGard™

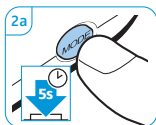
The CXC 700 features a function that allows you to individually adapt NoiseGard to the anatomy of your left and right ear. For the best possible adjustment of this function, you need to be in a noisy environment (e.g. aircraft).

Step 1: Slide the **NoiseGard** switch to **OFF** to switch NoiseGard off. Proceed to either step 2a or step 2b.

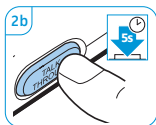


Selecting the right or left earphone

Step 2a, right earphone: Press and hold the **Mode** button and slide the **NoiseGard** switch to **ON**. Keep the button pressed until you hear two beeps and the LED flashes rapidly (approx. 5 seconds). Proceed to step 3.



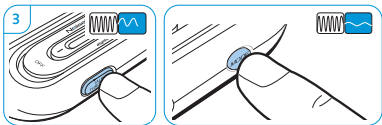
Step 2b, left earphone: Press and hold the **TalkThrough** button and slide the **NoiseGuard** switch to **ON**. Keep the button pressed until you hear two beeps and the LED flashes rapidly (approx. 5 seconds). Proceed to step 3.



Adapting NoiseGuard and storing the setting

Step 3: Press the **TalkThrough** button or the **Mode** button to individually adapt NoiseGuard to your needs. You hear a beep when the maximum or minimum setting is reached.

When you have adjusted NoiseGard so that external noise is optimally isolated, wait until you hear a beep and the LED lights up (approx. 10 seconds). The settings are stored.



Resetting the factory default settings

- ▶ Slide the **NoiseGard** switch to **OFF** to switch NoiseGard off.
- ▶ Simultaneously press and hold the **Mode** button and the **TalkThrough** button and slide the **NoiseGard** switch to **ON**. Keep the buttons pressed until you hear three beeps (approx. 5 seconds). The NoiseGard settings are reset to the factory default settings.

Switching TalkThrough on/off



TalkThrough enables you to communicate with flight attendants or seat mates, without removing the ear canal phones and while Noise-Gard is switched on. When activated, the ear canal phones filter out unwanted ambient noise while ensuring excellent speech clarity.

To switch TalkThrough on:

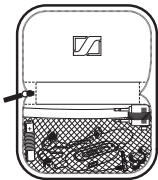
- 1 Press the **TalkThrough** button. You hear a beep. Your audio source is muted. The LED flashes rapidly until you switch TalkThrough off.

To switch TalkThrough off:

- 2 Press the **TalkThrough** button again. You hear your audio source. The LED lights up permanently.



Storing the CXC 700



- ▶ Store the ear canal phones and accessories in the carrying case.

Cleaning and maintaining

CAUTION

Danger of damage to the ear canal phones!

Solvents and other cleansing agents can damage the ear canal phones.

- ▶ Use a soft, slightly damp cloth to remove dirt from the product.
-

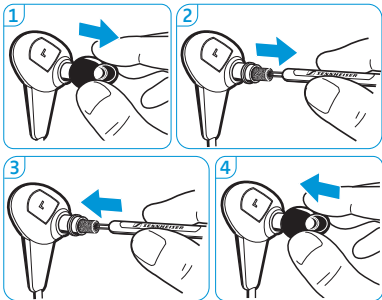
For hygiene reasons, clean your ear canal phones regularly.

Replacing the diaphragm guards

The diaphragm guards protect the diaphragms of the ear canal phones and contribute to the sound quality of the ear canal phones. Ensure that the diaphragm guards are always installed in the ear canal phones.

To replace the diaphragm guards:

- 1 Carefully remove the ear adapters from the ear canal phones.
- 2 Carefully remove the diaphragm guards using the supplied cleaning tool or tweezers.
- 3 Install the **new** diaphragm guards.
- 4 Mount the ear adapters to the ear canal phones.



Specifications

Transducer principle	dynamic, closed
Frequency response	20 Hz to 21 kHz
Operating temperature	0 – 40°C
Nominal impedance	45 – 300 Ω
SPL	108 dB (1 kHz/1V _{rms})
THD at 1 kHz	< 0.5%
Noise attenuation	active: –23 dB passive: –25 dB
Audio connector	3.5 mm jack plug
In-flight adapter	3.5 mm double mono jack plug
Audio adapter	6.35 mm stereo jack plug
Cable length	1.6 m

Weight (incl. battery)	approx. 44 g
NoiseGard power supply	1 AAA size battery, 1.5 V
Operating time	approx. 16 hrs

Manufacturer Declarations

Warranty

Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product.

For the current warranty conditions, please visit our website at www.sennheiser.com or contact your Sennheiser partner.

Declaration of Conformity






This product is in compliance with the essential requirements and other relevant provisions of directives:

- EMC Directive (2004/108/EC)
- RoHS Directive (2002/95/EC)
- WEEE Directive (2002/96/EC)
- Battery Directive (2006/66/EC)

Manufacturer Declarations

The declarations are available on the Internet at www.sennheiser.com. Before putting the product into operation, observe the respective country-specific regulations!

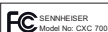
In compliance with:

USA	FCC Part 15b
Canada	ICES-003
Europe	  
Australia/ New Zealand	 N340
China	

NoiseGard™ is a registered trademark of Sennheiser electronic GmbH & Co. KG.

Statements regarding FCC and Industry Canada

FCC Declaration of Conformity (DoC)



We,

Sennheiser Electronic Corporation
One Enterprise Drive • Old Lyme •
CT 06371 • USA
Tel: +1 (860) 434 9190, ext. 144
Fax: +1 (860) 434 1759

declare the above device comply with the requirements of Federal Communications Commission.

This device complies with Part 15 of the FCC rules. Operation is subjected to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: John Falcone

This device complies with Part 15 subpart b of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio com-

munications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications made to this equipment not expressly approved by Sennheiser electronic Corp. may void FCC authorization to operate this equipment.

This class B digital apparatus complies with the Canadian ICES-003.

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