

# Technical data sheet

## Oticon CROS

Oticon CROS transmitter is a device designed for people with single-sided hearing.

### CROS/BiCROS

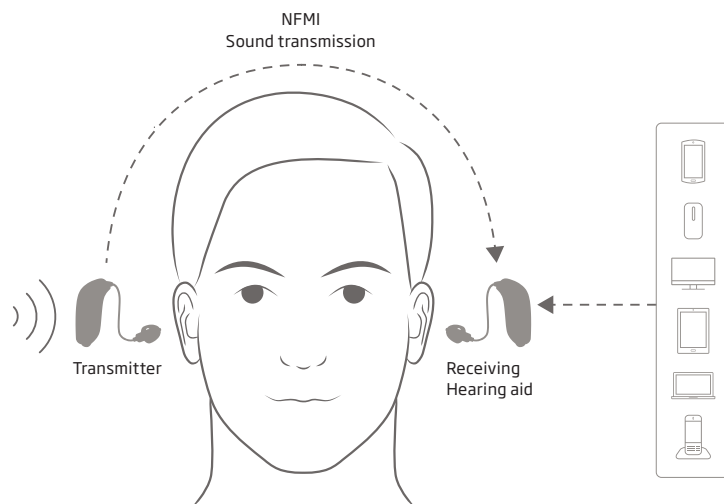
Oticon CROS paired with a compatible Oticon hearing aid is a Contralateral Routing of Signal (CROS) amplification system. Sounds are picked up by the microphones in the CROS transmitter located on the poorer ear. Then, they are transmitted via Near-Field Magnetic Induction (NFMI) to a receiving hearing aid located on the better ear. If some hearing loss is present in the better ear, the solution is set up as a Bilateral Contralateral Routing of Signal (BiCROS) configuration.

### Open Sound Experience

Oticon CROS features a version of the OpenSound Navigator designed for transmitting sound to an Oticon hearing aid. The solution provides 360-degree access to sound by scanning the environment, balancing the sounds and removing unwanted noise.

### Dual Streaming With TwinLink™

With Oticon CROS solution, the connection between the transmitter and receiving hearing aid is made using the NFMI part of Oticon's TwinLink™ technology. TwinLink technology makes it possible to connect the receiving hearing aid to external audio streams while simultaneously enjoying sound transmission from the poorer ear to the better ear. External audio is sent directly to the receiving hearing aid using 2.4 GHz Bluetooth Low Energy and the Oticon CROS transmitter is sending through NFMI. Clients can watch television or listen to music and still be aware of speech in the surroundings.



Oticon CROS uses the premium technology of Oticon's Velox S™ platform to enable transmission of sound from the poorer ear to the better ear.



IP68

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Technical data											
Name/model	Oticon CROS/CROS01										
Style	Same design as Oticon Opn S miniRITE T										
Ear Piece	Open dome or choice of Oticon miniRITE standard speaker and earpiece to match receiver										
Colors	Available in 7 colors to match hearing instrument										
System features	Dual microphone sound pickup Pre-processing and noise reduction Wireless transmission to Oticon hearing instrument										
Compatibility	<p>Oticon CROS can transmit to the following Oticon hearing instrument families:</p> <table border="0"> <tr> <td>Oticon Real™</td> <td>Oticon Ruby</td> </tr> <tr> <td>Oticon More™</td> <td>Oticon Xceed</td> </tr> <tr> <td>Oticon Zircon</td> <td>Oticon Play PX</td> </tr> <tr> <td>Oticon Opn S™ 1</td> <td>Oticon Opn Play™ 1</td> </tr> <tr> <td>Oticon Opn S™ 2</td> <td>Oticon Xceed Play</td> </tr> </table> <p>For full and updated compatibility overview see <a href="http://www.oticon.global/cros-compatibility">www.oticon.global/cros-compatibility</a></p>	Oticon Real™	Oticon Ruby	Oticon More™	Oticon Xceed	Oticon Zircon	Oticon Play PX	Oticon Opn S™ 1	Oticon Opn Play™ 1	Oticon Opn S™ 2	Oticon Xceed Play
Oticon Real™	Oticon Ruby										
Oticon More™	Oticon Xceed										
Oticon Zircon	Oticon Play PX										
Oticon Opn S™ 1	Oticon Opn Play™ 1										
Oticon Opn S™ 2	Oticon Xceed Play										
Water resistant	IP68										
Battery size	312										
Typical operating hours	85-105 hours										
Status indications	Acoustic signals in hearing instrument										
Operating conditions	Temperature: +1°C to +40°C (34°F to 104°F) Relative humidity: 5% to 93%, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa										
Storage and transportation conditions	Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage. Temperature: -25°C to +60°C (-13°F to 140°F) Humidity: 5% to 93% relative humidity, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa										
Audio											
Audio quality	G722 encoding										
Audio bandwidth	Up to 10 kHz - depending on receiver hearing aid										
Radio Specification											
Wireless range	17 cm ear to ear										
Frequency	3.84 MHz										
Modulation	MSK										
Duty cycle	50%										
Field Strength	-51 dBμA/m @10m										
Standards and approval (FCC/IC)	Oticon CROS Transmitter contains a radio module with the following certification ID numbers: FCC ID: U28AUMRTE IC: 1350B-AUMRTE										


 Manufactured by:  
 Oticon A/S  
 Kongebakken 9  
 DK-2765 Smørum  
 Denmark