

Wired or wireless PTT

primero DPC can be used with both wired and wireless PTT units. Phonak's wired PTT comprises a small control unit with one large button. Tactical and covert wireless PTTs are also available. Both are waterproof, handheld, and used to remotely activate

the push-to-talk function of primero DPC or various Phonak headsets used with any 2-way radio. Both wireless PTTs use 2.4GHz radio technology and secure against interference and interception.



- Covert wireless PTT
- Identification mode
 - Toneboard
 - Mute function
 - Battery status (LED)
 - CR 2032 3V lithium battery

- Tactical wireless PTT
- Identification mode
 - Toneboard
 - Mute function
 - Battery status (LED)
 - AAA battery
 - Several wearing options: clip, armband, velcro



Life is on

We are sensitive to the needs of everyone who depends on our knowledge, ideas and care. And by creatively challenging the limits of technology, we develop innovations that help people hear, understand and experience more of life's rich soundscapes.

Interact freely. Communicate with confidence.

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primero DPC

Extreme noise, natural communication



PHONAK life is on

primero DPC

In-ear voice pick-up headset with dynamic hearing protection

primero DPC is Phonak's breakthrough radio headset with dynamic hearing protection for use in the very loudest environments. Rather than featuring a cumbersome boom microphone, primero DPC employs a tiny microphone situated within the earJack and an innovative signal processing algorithm that picks up the user's voice from inside the ear canal. As a result, the primero DPC user can enjoy normal radio communication in environments of up to 115 dB (the same noise level as the loudest rock concert), and continued dynamic protection in even louder noise.

- **Instant attenuation of all dangerous sounds (including impulse noises) to a safe in-ear level**
- **Speech transmission up to 115 dB**
- **Localization of life-saving warning signals**
- **Flexible connection to various radios**



primero DPC cuts through the noise to make the impossible possible

primero DPS's earJack contains a miniature loudspeaker and two miniature microphones; one on the inside of the earJack and one on the outside. These tiny microphones pick up the user's voice and the surrounding loud noise. These two contrasting signals are then mixed at different ratios.

Using blind source separation (BSS) technology, speech is extracted from these two incoming signal paths and noise cancellation applied for effective transmission via primero DPC's radio link (effective in surrounding noise of up to 115 dB).

Echoes are also eliminated. This allows the primero DPC wearer to speak normally, without having to shout, and the radio listener to hear the speaker's voice clearly.

When there is minimal surrounding noise, primero DPC becomes "acoustically transparent". The user can hear all environmental sounds as if he was not wearing any protection, therefore there is no need to take primero DPC out of the ears when noise levels decrease.



Technical specifications

| Specifications | Dynamic hearing protection with in-ear voice pick-up and noise cancellation |
|---|---|
| Maximum volume of in-ear speaker (no radio signal) | 82(+/-2) dB(A) free field equivalent |
| Volume control range of ambient sound (8 levels) | -15 dB...+6 dB(A) vs. natural hearing |
| Maximum volume of in-ear speaker (with radio signal) | 91(+/-2) dB(A) free field equivalent |
| Maximum surrounding noise level for voice pick-up operation | 115(+/-2) dB(A) free field equivalent |
| Power supply | Power supply of radio or internal LR03 (AAA) battery |
| Radio supply voltage | 3.3 V...24 V |
| Battery life | 200 h (system not connected to a radio) |
| System weight | 90 g |
| Operating temperature range | -20° C...60° C |
| Housing IP rating | IP 54 |
| Cable pull force | 50 N |
| Connector open force | 8...16 N, 4000 cycles |
| Neck cord snapper opening force | 12...25 N, 4000 cycles |
| Standards | EN 352-7/EN 352-2/EN 55022/EN 55024 |
| Radio connectors | Compatible with most professional portable radios |

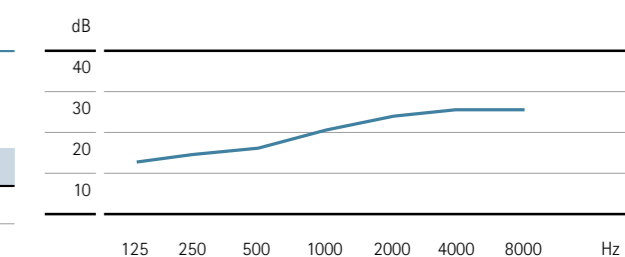


Noise damage is irreversible

Short exposure to high volume sounds, such as loud blasts or explosions, can cause immediate problems such as acute pain or tinnitus (a frustrating ringing in the ears). During prolonged or repetitive exposure to sound levels above 80 dB, the effects of noise cannot be perceived immediately. Damage to hearing due to noise exposure is cumulative and gradual.

Passive attenuation (EN 352-2:2002)

When dynamic attenuation is switched off



Dynamic attenuation (EN 352-7:2002)

Noise levels at which in-ear sound pressure level first exceeds 85 dB(A)

| Frequency criteria level | Value |
|--------------------------|--------|
| High | 108 dB |
| Medium | 104 dB |
| Low | 99 dB |

SNR = 24