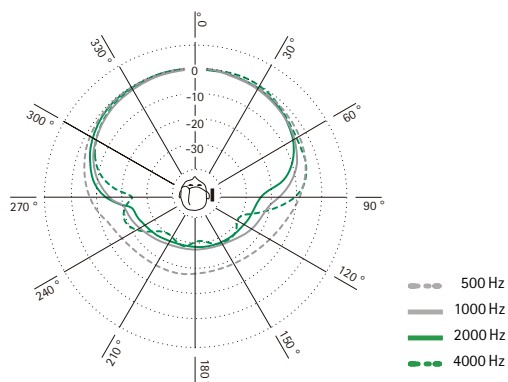


SmartLink™ SX

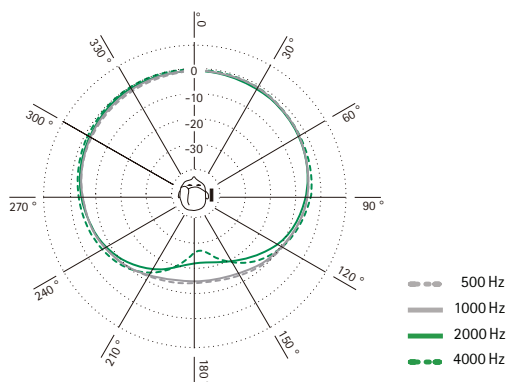


SmartLink SX is a compact communication device for people with hearing loss who lead busy, active lives. The SmartLink SX incorporates an FM transmitter with digital signal processing, a remote control for Phonak hearing instruments, and Bluetooth for communication with mobile phones. With its digital frequency synthesizer, the SmartLink allows a highly flexible choice of operating frequency. For maximum customer benefit, we recommend using a Phonak multi-channel FM receiver (e.g. the MLxS or ML8S) that can be automatically synchronized from the SmartLink.

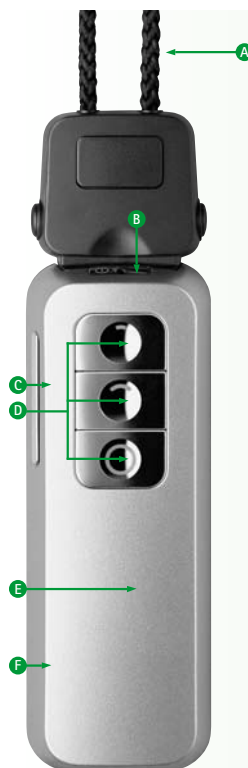
SmartLink SuperZoom²



SmartLink Zoom



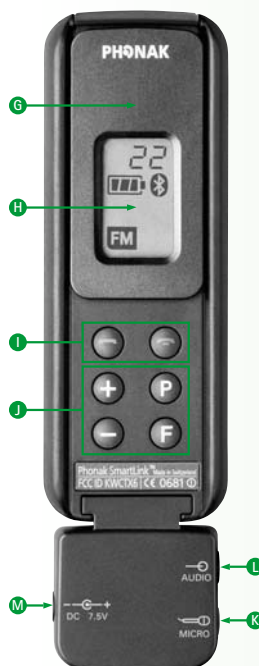
Technical data



Advanced FM

- A** Lavalier cord antenna for an operating range up to 30 meters
 - Short antenna for operating ranges under 10 meters
 - Built-in antenna for operating ranges under 3 meters
- B** FM communication on/off switch
- C** Built-in, high-quality microphone
- D** FM microphone settings: Omni, Zoom, SuperZoom²
- E** State-of-the-art digital signal processing (DSP) with
 - Adaptive high-end beam former
 - SuperZoom² noise suppression
 - Soft squelch
- F** Digital frequency-synthesizer

Extended communication



- G** Retainer clip
 - H** Simple, clear LCD display for all functions
 - I** Bluetooth control keys for operation with a mobile phone
 - J** Hearing instrument remote control
- Adapter with connectors for:
- K** External microphone
 - L** External audio source
 - M** Rapid charging unit

Technical data

General

Dimensions:

L x W x H: 98 x 35 x 18mm (3.8 x 1.4 x 0.7 inches)
(without interface and lavalier cord attached)

Weight:

56 g

Operating temperature range:

-10°C to +60°C

HF characteristics

Frequency range:

169.4 – 181.9 MHz (Band H)

214.0 – 220.0 MHz (Band N)

Frequency switching:

Integrated digital frequency synthesizer, max. 40 programmable channels

Frequency stability:

Better than ± 1 kHz

Modulation:

FM (narrow-band), maximum frequency deviation $\Delta f_{dev} < 5$ kHz

Antennas:

- Built-in concealed antenna for short-range operation (max. 3 m)
- Plug-in short antenna for medium-range operation (up to 10 m)
- Plug-in lavalier cord antenna for maximum operating range (up to 30 m)

Signal-to-noise ratio: (microphone setting: Omni)

> 45 dB at $\Delta f_{dev} < 4$ kHz and $f_{mod} = 1$ kHz

Audio characteristics

Audio frequency range:

100-7000 Hz

Microphone sensitivity: (microphone setting: Omni)

97 dB SPL at $f_{mod} = 1$ kHz for $\Delta f_{dev} = 4.0$ kHz (100% modulation)

70 dB SPL at $f_{mod} = 1$ kHz for $\Delta f_{dev} = 4.0$ kHz (100% modulation)

Distortion: (microphone setting: Omni)

THD < 0.2% according to IEC 118-7 at 70 dB SPL with $f_{mod} = 1$ kHz for $\Delta f_{dev} = 4.0$ kHz

Technical data

Power supply

Battery: Lithium-Ion 3.7 VDC

Capacity: 330 mAh

Operating time:

10 hours max.

Using Bluetooth increases the SmartLink power consumption

Charging unit:

Type: DC, stabilized

Plug connector: Internal diameter 1.1 mm, external diameter 3 mm, inner pole positive

Secondary voltage: 7.5 VDC

Current: 650 mA


Important notice: It is recommended to use only the original Phonak charging unit.

Fast-charge:

80% charged within an hour

Fully charged in two hours

The battery cannot be over-charged

 The adapter may become warm during charging.

Hearing instrument remote control

Frequency: 40.96 kHz

Operating range: < 50 cm

Keys: Same functionality as the WatchPilot2

Bluetooth link to mobile phone

Profile: Bluetooth "Headset" and "Handsfree"

Bluetooth Core Version 1.1

Operating range 2–3 meters (Mobile phone to SmartLink)

Standards

| | Europe | USA |
|---|--|-----------------------|
| Wireless microphones | EN 300.422 | FCC Part 15 Subpart C |
| Eletromagn. compatibility | EN 301.489 | FCC Part 15 Subpart C |
| Short-range wireless transmission systems | EN 300.328 | FCC Part 15 Subpart C |
| Safety regulations | EN 60950 | FCC Part 15 Subpart C |
| Bluetooth | "Bluetooth Special Interest Group" conformity test | |