

A Roger Dynamic SoundField system consists of one or more Roger DigiMaster loudspeakers and one or more Roger microphones. For larger classrooms, lecture halls and auditoriums, Phonak's DigiMaster 7000 is the Roger Dynamic SoundField loudspeaker of choice. This double loudspeaker system can transmit crystal-clear speech sounds over more than twice the area of one Roger DigiMaster 5000.

Roger DigiMaster 7000 features

- Two loudspeakers per class
- Unique line-source configuration featuring 15 high-quality loudspeakers per Roger DigiMaster 7000 for crystal-clear sound
- Automated dynamic behavior for optimal signal-to-noise ratios (SNRs)
- Adaptive automatic frequency hopping for interference-free sound
- Operates with Roger microphones
- Sleek design
- Wall-mount and floor-stand options
- Mini-USB for downloading new features
- Indicator light (LED)
- Installation-free

Accessories

Floor Stand

Tube height: 1035 mm / 41 inches Foot print diameter: 750 mm / 29 inches

Weight: 2165g / 4.8 lbs

Height on floor stand: 1880 mm / 74

inches

Wall mounting kit

What is Roger

Roger is the new digital standard that bridges the understanding gap, in noise and over distance, by wirelessly transmitting the speaker's voice directly to the listener.

Description

- ① On/off
- ② 3.5 mm audio input
- (3) Power socket
- (4) Mini-USB
- ⑤ Indicator light (LED)











General data Roger characteristics Roger Dynamic SoundField receiver Type: Transmission technology: 2.4 GHz including adaptive automatic Operates with Roger microphones frequency hopping Dimensions (L x W): 1045 x 72 mm / 41 x 2.8 inches Power emission: 100 mW Weight: 2550 g / 5.6 lbs Operating range: 20 m / 66 feet Operating conditions: Temperature should not exceed the limit values of 0° to +40° Celsius / +32° to +104° Fahrenheit and relative humidity of < 95% (non condensing) Transport and storage conditions: During transport or storage, the DigiMaster characteristics temperature should not exceed the limit values of -20° to +60° Celsius / -4° to +140° Fahrenheit and relative humidity Room size: Up to 300 m² / 3230 ft² of 90% for a long period Number of DigiMaster 7000 per Roger 2 units Power supply Voltage input: 100 - 240 V microphone Voltage output: 19 VDC / 3.42 A / 65 W Connector: 5.5 x 2.5 x 11.5 mm / ___ Unlimited Number of DigiMaster 7000 per building 0.21 x 0.1 x 0.45 inches Polarity + center Power consumption in standby mode: Power consumption in off mode: < 0.5 W Audio characteristics Roger Dynamic SoundField system data (*) Audio bandwidth for speech: 200 Hz - 7.5 kHz Target gain for noise level < 54 dB SPL: +6 dB compared to the voice level Signal-to-noise ratio with EasyBoom > 55 dB Start of dynamic adaptation: Noise level > 54 dB SPL microphone: SNR with 45 dB SPL noise level in > 26 dB** Audio bandwidth for auxiliary audio input: 200 Hz - 15 kHz classroom: Signal-to-noise ratio of external audio: > 70 dB SNR with 55 dB SPL noise level in > 18 dB** classroom: Volume control for voice: \pm 8 dB SNR with 65 dB SPL noise level in > 14 dB** Volume control for auxiliary audio input: +10 dB classroom: Up to 40 W Noise level < 54 dB SPL: 77 dB SPL@1 m, Power output: Typical average output level (Volume control 0 dB, speech level of 72 dB SPL in the reverberant field Loudspeaker impedance: 4Ω 65 dB SPL@1 m) Noise level = 60 dB SPL: 81 dB SPL@1 m, 76 dB SPL in the reverberant field Vertical aperture angle of the main lobe ± 25° Noise level = 66 dB SPL: 85 dB SPL@1 m, @500Hz: 80 dB SPL in the reverberant field Noise level > 66 dB SPL: 85 dB SPL@1 m,

Standards

Auxiliary input socket:

Auxiliary input impedance:

@2kHz:

EMC:

Vertical aperture angle of the main lobe

Power consumption comples with Ecodesign Directive 2005/32/EC

EN 301.489-1, -3, -9, -17

± 7°

3.5 mm jack

 $> 10 \text{ k}\Omega$

EC No 1275/2008, EN 62301

Maximum average output level with EasyBoom microphone:

89 dB SPL@1 m (Volume control +8 dB, noise level of 60 dB SPL, speech level of 75 dB SPL@1m)

80 dB SPL in the reverberant field

Maximum peak output level with EasyBoom microphone:

96 dB SPL@1 m (Volume control +8 dB, noise level of 60 dB SPL, speech level of 75 dB SPL@1m)

Maximum peak output level over auxiliary audio input:

100 dB SPL



^{*} Characteristics with EasyBoom microphone

^{**} Speech level of 65 dB SPL@1 m, SNR measured at a distance of 4 m / 13 ft 1 inch from the voice and loudspeaker sources