

A Roger Dynamic SoundField system consists of one or more Roger DigiMaster loudspeakers and one or more Roger microphones. For regular sized classrooms Phonak's Roger DigiMaster 5000 fits the bill perfectly. Featuring no less than 12 individual high-quality loudspeakers, all housed in a robust aluminum frame, this single-loudspeaker system offers the ultimate in instant sound performance.

Roger DigiMaster 5000 features

- One loudspeaker per class
- Unique line-source configuration featuring
 12 high-quality loudspeakers 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: 2.16 kg / 4.8 lbs Height on floor stand: 1720 mm / 68 inches

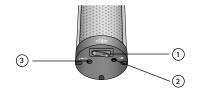
Wall mounting kit

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)











2.4 GHz including adaptive automatic Transmission technology: frequency hopping Power emission: 100 mW 20 m / 66 feet Operating range:

Roger characteristics

Type:	Roger Dynamic SoundField receiv
	Operates with Roger microphone

Dimensions (L x W): 885 x 72 mm / 35 x 2.8 inches

Weight:

General data

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)

2070 g / 4.5 lbs

Transport and storage conditions:

During transport or storage, the temperature should not exceed the limit values of -20° to +60° Celsius / -4° to +140° Fahrenheit and relative humidity of 90% for a long period

Power supply

Voltage input: 100 - 240 V Voltage output: 19 VDC / 3.42 A / 65 W Connector: 5.5 x 2.5 x 11.5 mm / 0.21 x 0.1 x 0.45 inches Polarity + center Power consumption in standby mode: < 1 W

Power consumption in off mode: < 0.5 W

DigiMaster characteristics

Room size:

Number of DigiMaster 5000 per Roger microphone

Number of DigiMaster 5000 per building

Up to 100 m² /1076 ft²

1 unit

Unlimited

Audio characteristics

Audio bandwidth for speech: 200 Hz - 7.5 kHz

> 55 dB

> 70 dB

±8 dB

± 10 dB

4 Ω

± 25°

±7°

3.5 mm jack

Up to 40 W

200 Hz -15 kHz

Signal-to-noise ratio with EasyBoom microphone:

Audio bandwidth for auxiliary audio input:

Signal-to-noise ratio of external audio:

Volume control for voice:

Volume control for auxiliary audio input:

Power output:

@500Hz:

Loudspeaker impedance: Vertical aperture angle of the main lobe

Vertical aperture angle of the main lobe @2kHz:

Auxiliary input socket:

Auxiliary input impedance:

 $> 10 \text{ k}\Omega$

Roger Dynamic Soundfield system data (*)

Target gain for noise level < 54 dB SPL:

Start of dynamic adaptation:

SNR with 45 dB SPL noise level in classroom:

SNR with 55 dB SPL noise level in classroom:

SNR with 65 dB SPL noise level in classroom:

Typical average output level (Volume control O dB, speech level of 65 dB

SPL@1 m)

Maximum average output level with EasyBoom microphone:

Maximum peak output level with EasyBoom microphone:

Maximum peak output level over auxiliary audio input:

+12 dB compared to the voice level

Noise level > 54 dB SPL

> 26 dB**

> 18 dB**

> 14 dB**

Noise level < 54 dB SPL: 71 dB SPL@1 m, 66 dB SPL in the reverberant field Noise level = 60 dB SPL: 75 dB SPL@1 m, 70 dB SPL in the reverberant field Noise level = 66 dB SPL: 81 dB SPL@1 m, 76 dB SPL in the reverberant field Noise level > 66 dB SPL: 81 dB SPL@1 m, 76 dB SPL in the reverberant field

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

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

100 dB SPL

EMC:

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

Power consumption comples with Ecodesign Directive 2005/32/EC:

EC No 1275/2008, EN 62301

Standards

^{*} 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