Phonak

Roger™ DigiMaster 5000 /V2

A Roger SoundField system consists of one or more Roger DigiMaster loudspeakers and one or more Roger microphones. For regular sized classrooms Roger DigiMaster 5000 /V2 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.

Technical data

Type	Roger DigiMaster SoundField receiver Operates with Roger microphones
Dimension (LxW)	885 x 72 mm/35 x 2.8"
Weight	2070 g/4.5 lbs
Operating conditions	0° to +40° C/+32° to +104° F. Relative humidity of <90% (non-condensing)
Transport and storage conditions	-20° to +60° C/-4° to +140° F. Relative humidity of 90% for a long period of time
Power supply	Voltage input: 100 – 240 V Voltage output: 19 VDC/3.42 A/65 W Power consumption in standby mode: <1 W Power consumption in off mode: < 0.5 W
Transport and storage conditions	-20° to +60° Celsius (-4° to +140° Fahrenheit) Relative humidity of 90% for a long period of time

Device description

1	On/Off
2	3.5 mm audio input
3	Power
4	USB
5	Indicator light (LED)
6	3.5 mm audio output
7	Bluetooth® button

Accessories

Floor Stand	Tube height: 1035 mm/41", foot print diameter: 750 mm/29", weight: 2.2 kg/4.8 lbs, height on floor stand: 1720 mm/68"
Wall Mount Kit	1x connecting part to DigiMaster loudspeaker, 1x wall support, screws
Tripod	To be used only in the lowest position in kindergarten. Tube height: 280 mm/11", weight: 2 kg/4.4 lbs , height on tripod stand: 1510 mm/59"
Desk Stand	Tube height: 280 mm/11", weight: 0.6 kg/1.3 lbs, height on desk stand: 1150 mm/45"

DigiMaster characteristics

Rome size:	Roger technology
Number of DigiMaster 5000 per Roger microphone	1 unit
Number of DigiMaster 5000 per building	unlimited
DigiMaster 5000 compatible Roger microphone	Roger for Education microphones

Roger characteristics

Transmission technology	2.4 GHz including adaptive automatic frequency hopping
Power emission	100 mW
Operating range	25 m/82 ft

Audio characteristics

Audio bandwidth for speech	200 Hz – 7.5 kHz
Volume control for voice	± 8 dB
Power output	Up to 40 W
Loudspeaker array	12 mini-loudspeakers
Vertical aperture angle of the main lobe @500Hz	± 25°
Vertical aperture angle of the main lobe @2kHz	± 25°
Auxiliary input	3.5 mm jack
Audio bandwidth for auxiliary audio input	100 Hz – 20 kHz
Volume control for auxiliary audio input	± 10 dB
Auxiliary output	3.5 mm jack line output
Audio bandwidth for Bluetooth	100 Hz – 20 kHz

Bluetooth information

Standard	Bluetooth v4.2

System data (*)

Target gain for noise level < 58 dB SPL	+ 6 dB compared to the voice level noise
Start of dynamic adaptation	Level > 58 dB SPL
SNR (signal-to-noise ratio) with 45 dB SPL noise level in classroom	> 26dB
SNR with 55 dB SPL noise level in classroom	> 16 dB
SNR with 65 dB SPL noise level in classroom	> 10 dB
Typical average output level (Volume control 0 dB, speech level of 65 dB SPL@1m)	Noise level < 54 dB SPL: 71 dB SPL@1 m, 66 dB SPL in the reverberant field Noise level = 60 dB SPL: 73 dB SPL@1 m, 68 dB SPL in the reverberant field Noise level = 66 dB SPL: 75 dB SPL@1 m, 70 dB SPL in the reverberant field Noise level > 66 dB SPL: 75 dB SPL@1 m, 70 dB SPL in the reverberant field
Maximum average output level with Roger microphone	89 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 with Roger 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
*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	

Standards

EMC	EN 301.489-1, -3, -9, -17
Power consumption complies with Ecodesign Directive 2005/32/EC	EC no 1275/2008, EN 62301
Europe	EN 300 328, EN 301 489, EN 62368-1, IEC/EN 62311
Canada	RSS-247, RSS-102
Japan	ARIB-T66
USA	CFR 47, part 15.247