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# Dynamic SoundField

## DigiMaster 7000 loudspeaker

### Technical Data

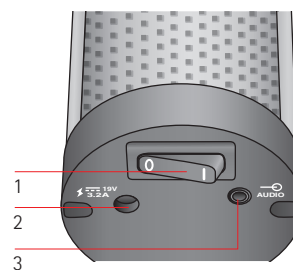


A Dynamic SoundField system consists of one or more DigiMaster units and the inspiro transmitter with the EasyBoom or iLapel microphone.

### Dynamic SoundField system features

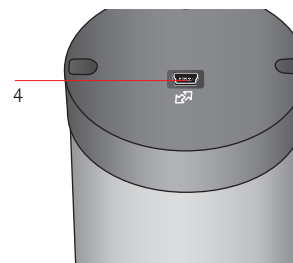
- Installation-free
- Automated dynamic behaviour for optimal signal-to-noise ratios (SNRs)
- Automatic frequency hopping for interference-free sound
- MultiTalker Network with inspiro and DynaMic for up to 10 speakers
- iLapel or EasyBoom microphone

### DigiMaster Controls



#### Loudspeaker base

- 1 On/Off switch
- 2 Power socket
- 3 3.5 mm audio input

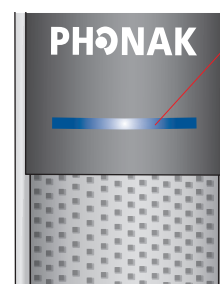


#### Loudspeaker top

- 4 mini-USB

### DigiMaster 7000 features

- Two loudspeakers per classroom
- Unique "line-source" loudspeaker unit for crystal clear sound
- 15 high-quality loudspeakers per loudspeaker unit
- Premium loudspeaker design
- Floor-stand or wall-mounting use
- mini-USB for downloading new features



#### Status indicator



DigiMaster

inspiro

# Dynamic SoundField

DigiMaster 7000

## General data

Height:	1045 mm (41 inches)
Diameter:	72 mm (2.8 inches)
Weight (without floor stand):	2550 g (5.6 lbs)
Operating temperature range:	0°C to +45°C
Humidity:	20% to 85%
Transmission technology:	2.4 GHz with automatic frequency hopping
Frequency planning:	not necessary
Number of Dynamic SoundField systems per school building:	unlimited
Number of DigiMaster 7000 per classroom:	2
Room size:	up to 300 m <sup>2</sup> / 3230 ft <sup>2</sup>

## Audio characteristics

Audio bandwidth for speech:	200 Hz–7.5 kHz
Signal-to-noise ratio with EasyBoom:	> 55 dB
Audio bandwidth for auxiliary audio input:	200 Hz–15 kHz
Signal-to-noise ratio of external audio:	> 70 dB
Volume control for voice:	+/- 8 dB
Volume control for auxiliary audio input:	+/- 10 dB
Power output:	up to 40 W
Loudspeaker impedance:	4 Ω
Vertical aperture angle of the main lobe @500Hz:	+/-25°
Vertical aperture angle of the main lobe @2kHz:	+/-7°
Auxiliary input socket:	3.5 mm jack
Auxiliary input impedance:	> 10 kΩ

## Standards

EMC:	EN 55013, EN 55020
Product power consumption complies with Ecodesign Directive 2005/32/EC:	EC No 1275/2008, EN 62301

## Dynamic characteristics\*

Target gain for noise level < 54 dB SPL:	+12 dB compared to the voice level
Start of dynamic adaptation:	noise level > 54 dB SPL
SNR with 45 dB SPL noise level in classroom:	> 26 dB**
SNR with 55 dB SPL noise level in classroom:	> 18 dB**
SNR with 65 dB SPL noise level in classroom:	> 14 dB**
Typical average output level (Volume control 0 dB, speech level of 65 dB SPL@1 m):	Noise level < 54 dB SPL: 77 dB SPL@1 m, 72 dB SPL in the reverberant field Noise level = 60 dB SPL: 81 dB SPL@1 m, 76 dB SPL in the reverberant field Noise level = 66 dB SPL: 85 dB SPL@1 m, 80 dB SPL in the reverberant field Noise level > 66 dB SPL: 85 dB SPL@1 m, 80 dB SPL in the reverberant field
Maximum average output level with EasyBoom:	89 dB SPL@1 m (Volume control +8 dB, noise level of 60 dB SPL, speech level of 75 dB SPL@1 m)
Maximum peak output level with EasyBoom:	96 dB SPL@1 m (Volume control +8 dB, noise level >60 dB SPL, speech level of 75 dB SPL@1 m)
Maximum peak output level over auxiliary audio input:	100 dB SPL

## Power supply

Voltage input:	100–240 V
Voltage output:	19VDC/65 W
Power consumption in standby mode:	< 1 W
Power consumption in Off mode:	< 0.5 W
Plug:	5.5 x 2.5 x 11.5 mm, polarity + center

## Floor stand

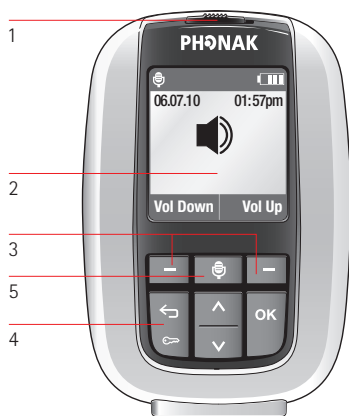
Tube height:	1035 mm (41 inches)
Diameter of the foot print:	750 mm (29 inches)
Weight:	2165 g
Height overall on floor stand:	1880 mm (74 inches)

\* characteristics with EasyBoom

\*\* Speech level of 65 dB SPL@1 m, SNR measured at a distance of 4 m from the voice and loudspeaker sources.

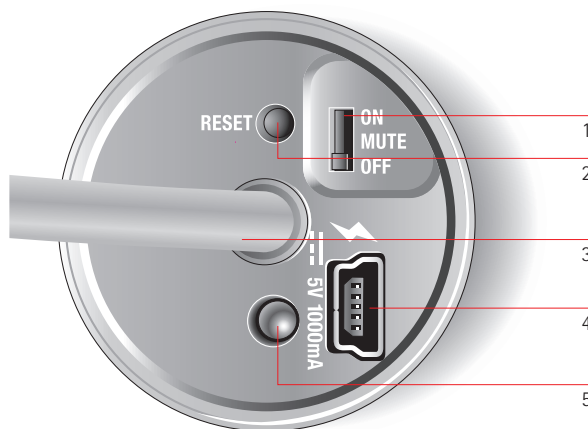
# Dynamic SoundField

## inspiro Controls



- inspiro**
- 1 On/Off slider
  - 2 Color LCD
  - 3 Soft keys
  - 4 Keypad lock key
  - 5 Microphone mute key

## DynaMic Controls



- DynaMic**
- 1 On/Mute/Off slider
  - 2 RESET Button  
Use a pen to press the button
  - 3 Antenna
  - 4 mini-USB interface for charging
  - 5 The LED indicates the following:
    - battery status
    - charging
    - error status

DynaMic is the pass around microphone. It is designed to work exclusively alongside inspiro in the MultiTalker Network.

## iLapel microphone



## EasyBoom microphone



# Dynamic SoundField

inspiro

## General data

Type:	Dynamic SoundField transmitter*
Length:	83 mm
Width:	56 mm
Height:	24 mm
Weight:	69 g
Operating temperature range:	-10°C to +60°C
Humidity:	20% to 75%
Transmission technology:	2.4 GHz including automatic frequency hopping
Power emission (2.4 GHz):	100mW / 20 dBm

## Battery

Type:	Lithium polymer
Dimensions:	Length: 52 mm Width: 25.8 mm Height: 9.5 mm
Voltage:	3.7V
Capacity:	1000 mAh
Operating time (normal mode):	12 hours
Charging temperature range:	0°C to +45°C
Charging time with charger:	100% in 2 hours 80% in 1 hour

## Power supply

Type:	Dedicated inspiro charger
Connector:	mini-USB

## MultiTalker Network

Digital network for up to 10 inspiro transmitters	
Frequency:	2.4 GHz
Operating range between inspiro transmitters:	at least 20 m

\* Cannot emit to FM receivers.

# Dynamic SoundField

DigiMaster + inspiro

## Standards

Electrical safety:	IEC/EN 60950-1
RF standards:	for 2.4 GHz: EN 300 328 EMC: EN 301 489-1, -9, -17,
SAR (2.4 GHz):	EN 62209-2 SAR <sub>1g</sub> = 0.10 W/kg SAR <sub>10g</sub> = 0.05 W/kg

## Accessories

### DigiMaster

Power adapter with power cables for Europe, USA, AUS and UK
Wall mount Kit
Tool set for the installation
Audio cable 1 m/3 feet
Audio cable 3 m/10 feet
Scart adapter for audio cable
Cinch adapter for audio cable

### inspiro

Additional inspiro transmitters for the MultiTalker Network
Additional DynaMic passaround microphones for the MultiTalker Network
inspiro single charger
inspiro twin charger
Replacement battery for inspiro 3.7V/1000mAh
Replacement clip for inspiro
Replacement neck loop for inspiro

### EasyBoom

EasyBoom microphone for the inspiro
EasyBoom adapter cable for inspiro
Replacement foam for EasyBoom

### iLapel

iLapel microphone for the inspiro
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### DynaMic

Desk stand
Clamp for 3/8" and 5/8" (K&M)
Replacement microphone head
Colour rings