## inspiro

### **inspiro** Technical Data

#### inspiro features

- Dynamic Speech Extractor
- DataLogging FM
- MultiTalker Network
- SoundCheck
- Monitoring
- ChannelFinder
- Durable
- Easy and intuitive user interface
- Multi-frequency
- Fast charging capabilities
- Two microphone options: iBoom and iLapel
- Two wearing options: clip and lavalier
- Two menu settings: 'Standard Level' for everybody and 'Extended Level' for special applications.
- Fully programmable with FM SuccessWare 4.01 or higher

#### iBoom features

- Best signal-to-noise ratio
- Maximum wearing comfort
- Left and right ear compatible

#### iLapel features

- Directional miniature microphone
- No switching required
- Easy to clip

#### Relevant internet pages

Your online comprehensive FM support tool for schools www.eSchoolDesk.com

Latest set-up tips for FM systems in combination with hearing instruments and Cochlear implants. www.phonak.com/FM\_Configurator

Your online FM knowledge base www.FMeLibrary.com

Your online FM counseling support tool www.FMCounselWare.com

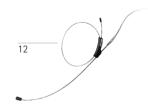


**inspiro** is a FM transmitter ideally suited to the needs of teachers. Suitable for use in regular schools as well as special schools for hearing impaired pupils. The outstanding design, with its large color display, makes this transmitter unique. Soft keys, an alarm clock, housing options to suit different types of clothing, and a wealth of other details reflect our passion for userfriendliness. **inspiro** – designed for schools that care about their children.



#### Product description

- 1 On/Off switch
- 2 High resolution matrix color LCD
- 3 Microphone mute key
- 4 Soft keys 5 Menue na
- Menue navigation
- Up/Down
- Escape
- OK
- 6 3.5 mm Audio input socket
- 7 Mini USB socket for charging
- and programming
- 8 Microphone cable wrapper
- 9 Clip
- 10 Lavalier
- 11 iLapel microphone
- 12 iBoom microphone



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#### inspiro Technical Data

Battery

#### General data

**HF** characteristics

Туре:	Dynamic FM transmitter
Length:	83 mm
Width:	56 mm
Height:	21 mm
Weight:	69 g
Operating temperature range:	-10°C - +60°C
Humidity:	20% - 75%

Туре:	Lithium Polymer
Dimensions:	Length: 50 mm
	Width: 25.5 mm
	Height: 5.8 mm
Voltage:	3.7 V
Capacity:	750 mAh
Operating time (normal mode)	12 hours
Charging temperature range:	0°C - +45°C
Charging time with charger:	100% in 2 hours
	80% in 1 hour

#### Power supply

Frequency range:	169 - 176 MHz (H-band)	
	214 - 220 MHz (N-band)	_
Frequency switching:	Integrated digital frequency synthesizer,	_
	max. 40 programmable channels	
Frequency stability:	Better than +/- 1 kHz	_
Modulation:	FM (narrow band)	
	Max. frequency deviation $\Delta f < 6 \text{ kHz}$	
Antenna:	Integrated in the microphone cable	_
Operating range:	15 – 30 m	
	EMC: - 54 dBm ERP (EN 300.422)	
Signal-to-noise ratio*:	> 45 dB (Δf > 4 kHz)	_

**inspiro** combined with MLxi, ML10i or any others Dynamic FM receivers leads to a significantly higher signal-to-noise ratio. See the booklet in the **inspiro** brochure, page 3 figure 3.

#### Audio characteristics

Audio bandwidth:	100 - 6000 Hz
Microphone sensitivity	: 97 dB SPL at fmod = 1 kHz for fdev
	= 4.0 kHz (100% modulation)
	70 dB SPL at fmod = 1 kHz for fdev = 3.0 kHz
Distortion:	THD $<$ 0.2 % at 70 dB SPL with fmod =
	1 kHz fdev = 3.0 kHz

#### Accessories and replacement parts

iBoom microphone iLapel microphone inspiro charger miniUSB/USB cable for programming Audio cable 1 m / 3 feet Audio cable 3 m /10 feet Scart adapter for audio cable Cinch adapter for audio cable Replacement battery Replacement clip Replacement lavalier Replacement audio cable 1 m / 3 feet Replacement alligator clip for iBoom Replacement alligator clip for iLapel

# Connector: Mini USB Standards EN 300.422-1,-2:2001 EN 300.330-1,-2:2006 EN 300.328:2006 CFR 47, part 95, part 15C EMC: EN 301.489-3, -9, 17:2002 EI Safety:

Dedicated inspiro charger

#### Dynamic FM System data

Adaptive FM Advantage (AFMA): (Ambient noise level >= 73 dB SPL)		
Dynamic FM advantage over the Hearing instrument:	25 dB	
Dynamic FM advantage over a traditional FM system:	15 dB	

#### Voice Activity Detection (VAD):

5 ms
5 seconds
2 seconds
-26 dB

#### Wireless sub-audio datalink:

Frequency range:	Above the audio band	
Operating range:	as FM operating range	

#### Wireless programming and monitoring:

FSK Link:	Frequency 40.96 kHz / Data rate 1000 – 2000 Bit/s
	Link from the receivers to the inspiro
OOK Link:	Frequency 8.192 kHz / Data rate 1024 Bit/s
	Link from the inspiro to the receivers
Operating range:	20 cm / 8 inches

#### AutoConnect\*:

Covered hearing instrument impedance: 1.0 k $\Omega$  – 20.0 k $\Omega$ 

#### MultiTalker Network\*\*:

Digital network for up to 10 inspiro transmitters
Frequency: 2.4 GHz / Data rate 2 MBits/s
Operating range between the <b>inspiro</b> transmitters: 8 m

Also available if Dynamic FM receivers are not used with inspiro. Also available if inspiro is not used with Dynamic FM receivers.

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