

Microphones

3

Wired	226
Wireless	240
Accessories	258

LBB 9080/00 Omnidirectional Dynamic Handheld Microphone

3



Features

- ▶ Excellent speech reproduction
- ▶ Rugged construction
- ▶ Easy to handle
- ▶ Remote switching contact
- ▶ Close talking applications

The LBB 9080/00 handheld microphone is designed for close talking applications, and is ideal for short announcements.

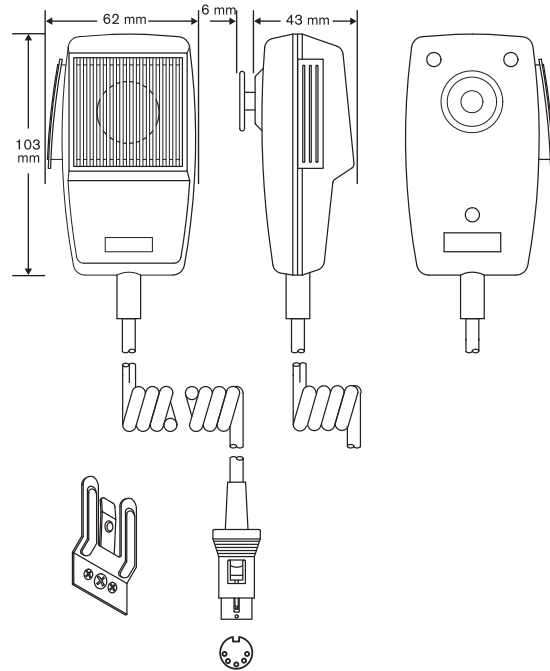
Functions

The microphone has a press to talk (PTT) switch on the side. The switch has additional contacts for remote control functions, if required.

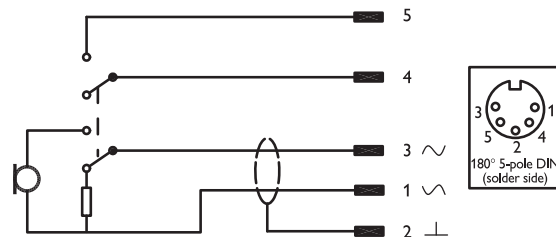
Certifications and approvals

Region	Certification
Europe	CE

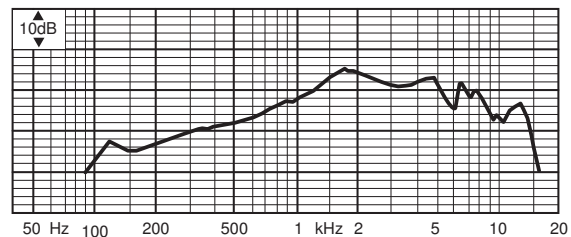
Installation/configuration notes



Dimensions in mm



Circuit diagram



Frequency response

Parts included

Quantity	Component
1	LBB 9080/00 Omnidirectional Dynamic Handheld Microphone
1	Wall-mounting bracket

Technical specifications

Electrical*

Type	Handheld
Polar pattern	Omnidirectional
Frequency range	280 Hz to 14 kHz
Sensitivity	3.1 mV/Pa ±4 dB
Rated output impedance	500 ohm

* Technical performance data acc. to IEC 60268-4

Mechanical

Dimensions (H x W x D)	103 x 62 x 43 mm (4.05 x 2.44 x 1.69 in)
Weight (incl. cable)	190 g (6.7 oz)
Color	Black
Switch	On/off with remote control contact
Cable type	2-core + 2-core screened (coiled)
Cable length	0.5 m (1.2 m extended)
Connector	5-pin 180° DIN (lockable)

Environmental

Operating temperature	-25 °C to +55 °C (-13 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

LBB 9080/00 Omnidirectional Dynamic Handheld Microphone

Dynamic hand-held microphone, omnidirectional, matt-black finish, close-talking applications, press-to-talk switch with remote contact, coiled cable with 5-pin 180 DIN (lockable).

Order number **LBB9080/00**

LBB 9081/00 Omnidirectional Dynamic Handheld Microphone

3



Features

- ▶ Excellent speech reproduction
- ▶ Rugged construction
- ▶ Easy to handle
- ▶ Remote switching contact
- ▶ Close talking applications

The LBB 9081/00 handheld microphone is designed for close talking applications, and is ideal for short announcements.

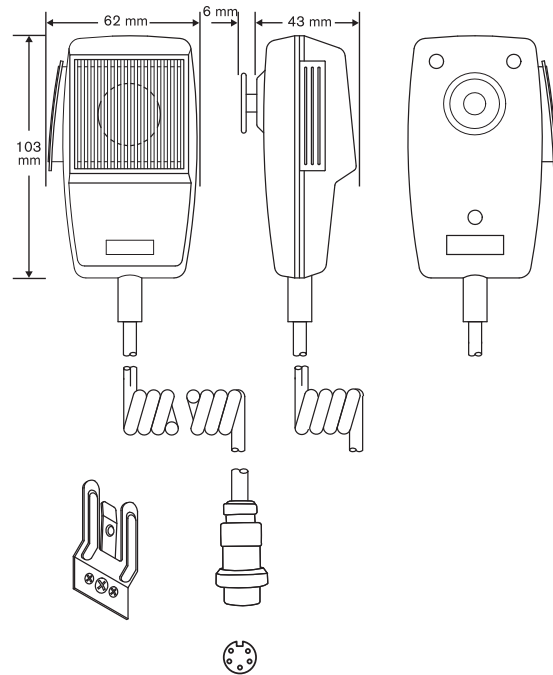
Functions

The microphone has a press to talk (PTT) switch on the side. The switch has additional contacts for remote control functions, if required. Resistors are already mounted in the switch circuit for supervision, and the microphone capsule is direct-connected, i.e. not switched.

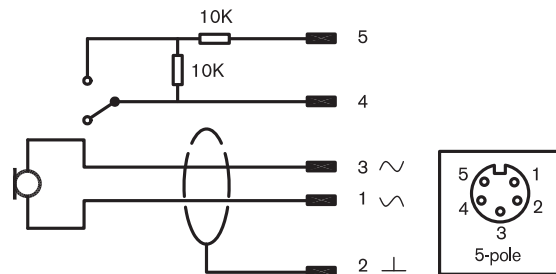
Certifications and approvals

Region	Certification	
Europe	CE	Declaration of Conformity
	CE	
	CPD	
Poland	CPD	
	CNBOP	

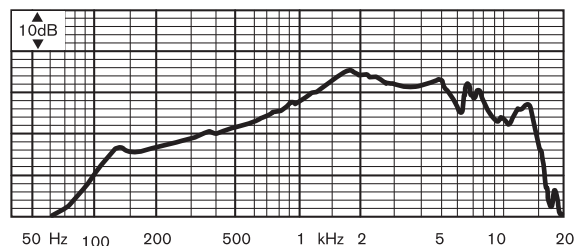
Installation/configuration notes



Dimensions in mm



Circuit diagram



Frequency response

Parts included

Quantity	Component
1	LBB 9081/00 Omnidirectional Dynamic Handheld Microphone
1	Wall-mounting bracket

Technical specifications

Electrical*

Type	Handheld
Polar pattern	Omnidirectional
Frequency response	280 Hz to 14 kHz
Sensitivity	3.1 mV/Pa ±4 dB
Rated output impedance	500 ohm

* Technical performance data acc. to IEC 60268-4

Mechanical

Dimensions (H x W x D)	103 x 62 x 43 mm (4.05 x 2.44 x 1.69 inch)
Weight (incl. cable)	190 g (6.7 oz)
Color	Black
Switch	On/off with remote control contact
Cable type	2-core + 2-core screened (coiled)
Cable length	0.5 m (1.2 m extended)
Connector	5-pin CB (lockable)

Environmental

Operating temperature	-25 °C to +55 °C (-13 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

LBB 9081/00 Omnidirectional Dynamic Handheld Microphone

Dynamic hand-held microphone, omnidirectional, matt-black finish, close-talking applications, press-to-talk switch with remote contact, coiled cable with 5-pin CB (lockable).

Order number **LBB9081/00**

LBB 9082/00 Unidirectional Gooseneck Microphone

3



Features

- ▶ Unidirectional dynamic microphone
- ▶ Flexible stem
- ▶ Excellent speech reproduction
- ▶ Rugged construction
- ▶ Built-in pop shield

The gooseneck microphone is a stylish high quality unidirectional dynamic microphone, mainly intended for public address applications.

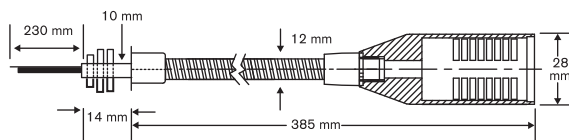
Functions

The flexible stem has an M10 screw fitting for mounting onto (fireman's) panels, lecterns or desktops.

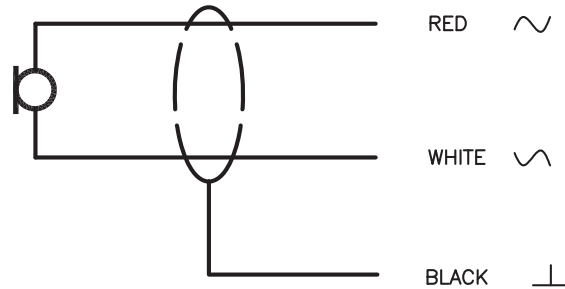
Certifications and approvals

Region	Certification
Europe	CE

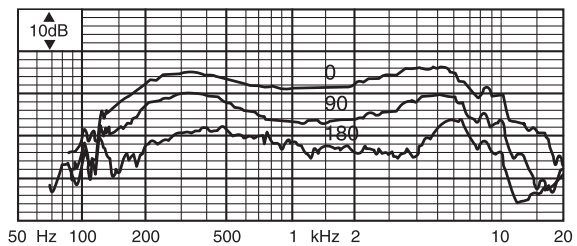
Installation/configuration notes



Dimensions in mm



Circuit diagram



Frequency response

Technical specifications

Electrical*

Type	Gooseneck
Polar pattern	Unidirectional
Frequency response	100 Hz to 15 kHz
Sensitivity	1.2 mV/Pa \pm 4 dB
Rated output impedance	500 ohm

* Technical performance data acc. to IEC 60268-4

Mechanical

Dimensions	28 x 385 mm (1.10 x 15.16 in)
Weight	225 g (8 oz)
Color	Black
Cable type	2-core screened
Cable length	230 mm

Environmental

Operating temperature	-25 °C to +55 °C (-13 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

LBB 9082/00 Unidirectional Gooseneck Microphone
Dynamic gooseneck microphone, unidirectional, matt-black finish, flexible stem, flange mounting, 230 mm, 2-core screened connection cable.
Order number **LBB9082/00**

LBB 9099/10 Unidirectional Handheld Microphone



Features

- ▶ Dynamic transducer
- ▶ Unidirectional handheld microphone
- ▶ High speech intelligibility
- ▶ Rugged construction
- ▶ Modern nonreflective dark gray finish

This unidirectional handheld microphone provides cost-effective, high-quality speech intelligibility and is fully compatible with other public address equipment. It is based on a dynamic transducer element in a sturdy housing with shielding against wind and wind bursts (pops). The microphone has excellent cardioid directivity, greatly reducing acoustic feedback.

The microphone is intended for public address and sound reinforcement applications such as in leisure centers, assembly halls, and shops.

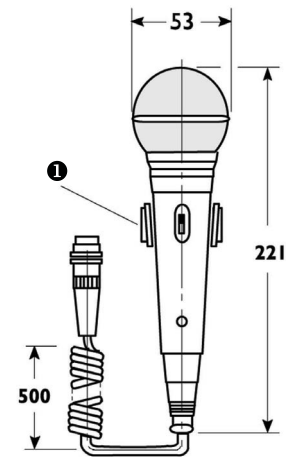
Functions

The LBB 9099/10 microphone features an on/off slide-switch with electrically isolated contacts for remote control switching, if required. This feature can switch off background music automatically, or sound announcement chimes when the microphone is activated.

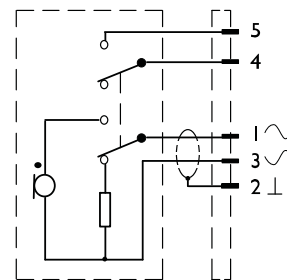
Certifications and approvals

Region	Certification
Europe	CE

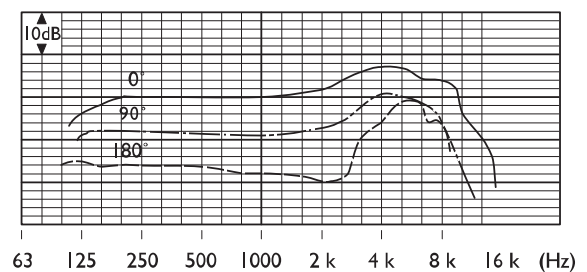
Installation/configuration notes



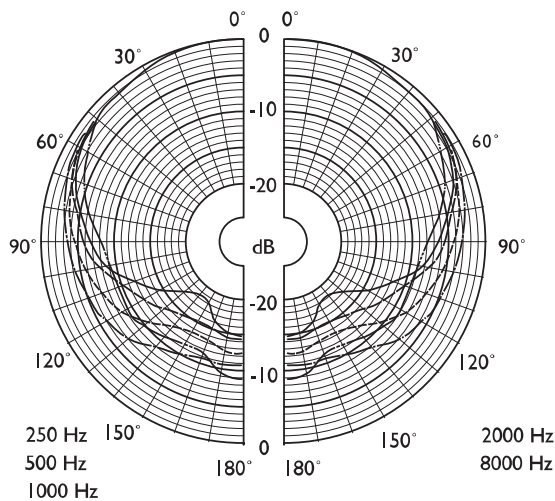
Dimensions in mm showing wall bracket (1)



Circuit diagram



Frequency response



Polar diagram (measured with pink noise)

Parts included

Quantity	Component
1	LBB 9099/10 Unidirectional Handheld Microphone
1	Wall-mounting bracket

Technical specifications

Electrical*

Type	Handheld
Polar pattern	Unidirectional
Frequency range	100 Hz to 13 kHz
Sensitivity	2 mV/Pa \pm 4 dB
Rated output impedance	600 ohm

* Technical performance data acc. to IEC 60268-4

Mechanical

Dimensions (L x D)	221 x 53 mm (8.7 x 2.09 in)
Weight	420 g (0.93 lb)
Color	Dark gray
Switch	On/off with remote control contact
Cable length	0.5 m (19.7 in) coiled 1.2 m (47.2 in) uncoiled
Connector	5-pin 180° DIN (lockable)

Environmental

Operating temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

LBB 9099/10 Unidirectional Handheld Microphone

Dynamic hand-held microphone, unidirectional, dark gray finish, on/off switch with remote contact, coiled cable 0.5 m (1.6 ft) with lockable 5-pin DIN connector, supplied with wall bracket.

Order number **LBB9099/10**

Accessories

LBC 1102/02 Cable Transformer

for galvanic separation

Order number **LBC1102/02**

LBC 2900/xx Unidirectional Handheld Microphones



Features

- Unidirectional dynamic microphone
- Handheld or stand-mounted use with clip (supplied)
- Rugged construction
- Modern non-reflective dark grey finish

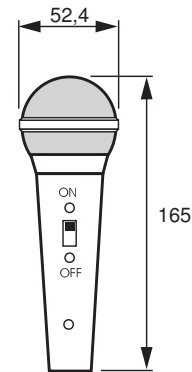
With this unidirectional microphone, Bosch provides impressive audio performance at an economical price. The LBC 2900/xx is based on a dynamic transducer element that is designed for high speech intelligibility. Its rugged enclosure is both stylish and easy to use in a wide range of public and sound reinforcement applications.

Functions

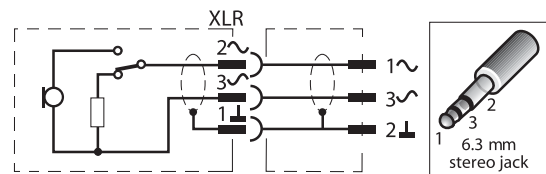
The LBC 2900/xx is a unidirectional microphone intended for either handheld or stand-mounted use. It has excellent cardioid directivity, which reduces acoustic feedback. The built-in on/off switch on the microphone body and the 3-pin lockable XLR connector at the base ensure that the microphone is easy to install and securely connected. Its modern design gives shielding against bursts (pops).

The LBC 2900/xx is ideal for use with Bosch mixing amplifiers, which are fitted with jack or XLR connectors for the input channels. Together, they provide affordable yet highly versatile public address solutions for shops, restaurants, leisure centers and other smaller applications.

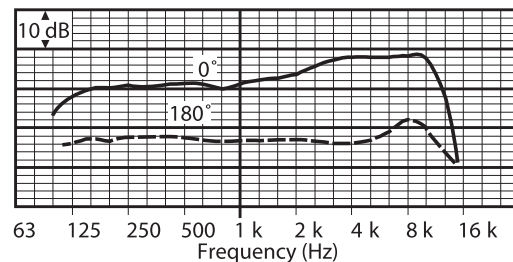
Installation/configuration notes



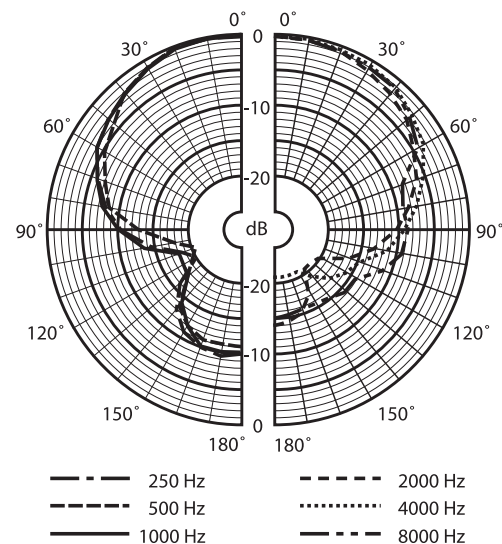
Dimensions in mm



Circuit diagram



Frequency response



Polar diagram

Parts included

Quantity	Component
1	LBC 2900/15 with 7 m (23 ft) shielded black cable terminated with a 6.3 mm (1/4") stereo jack plug or LBC 2900/20 with a 7 m (23 ft) shielded black cable terminated with an XLR male plug
1	Stand bracket with push-on clip for use with microphone stand, and screw-thread adapter for 3/8", 1/2", or 5/8" Whitworth-threaded stand

Technical specifications

Electrical*

Type	Handheld
Polar pattern	Unidirectional
Frequency range	80 Hz to 12 kHz
Sensitivity	1.7 mV/Pa ±3 dB
Rated output impedance	600 ohm

* Technical performance data acc. to IEC 60268-4

Mechanical

Dimensions (D x L)	52.4 x 165 mm (2.06 x 6.49 in)
Weight	270 g (9.5 oz)
Color	Dark gray
Switch	On/off slide
Cable length	7 m (23 ft)
Connector (/15)	6.3 mm (1/4") stereo jack
Connector (/20)	3-pin XLR

Environmental

Operating temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

LBC 2900/15 Unidirectional Handheld Microphone

Dynamic handheld microphone, unidirectional, non-reflective dark gray finish, On/off switch. Supplied with 7 m (23 ft) cable, XLR female / 6.3 mm (1/4") stereo jack plug connection cable, quick-release microphone clamp, and storage box.

Order number **LBC2900/15**

LBC 2900/20 Unidirectional Handheld Microphone

Dynamic handheld microphone, unidirectional, non-reflective dark gray finish, On/off switch. Supplied with 7 m (23 ft) cable, XLR male/ female connection cable, quick-release microphone clamp, and storage box.

Order number **LBC2900/20**

Accessories

LBC 1215/01 Microphone Clamp

Universal spring-loaded microphone holder, friction angular adjustment, matt black, screws onto a 3/8", 1/2", or 5/8" Whitworth thread, holds microphone stem with 19 to 32 mm diameter.

Order number **LBC1215/01**

LBC 1221/01 Floor Stand

Microphone floor stand, three folding legs, matt black, adjustable length from 850 to 1600 mm (2.79 to 5.25 ft) with twist clamp, threaded connector 3/8" Whitworth.

Order number **LBC1221/01**

LBC 1227/01 Table Stand

Table microphone stand, matt black, heavy round cast-iron base, 130 mm (5.12 in) diameter with shock-absorbing rubber insert under surface, with 3/8" Whitworth stud.

Order number **LBC1227/01**

LBC 1226/01 Adjustable Boom

Microphone boom arm, matt black, maximum reach 670 mm (2.12 ft), length 840 mm (2.76 ft), fits onto 3/8" Whitworth threaded microphone stands.

Order number **LBC1226/01**

LBB 1949/00 Gooseneck Condenser Microphone



Features

- Unidirectional condenser microphone
- Flexible stem
- Phantom powered by amplifier
- On/off sliding switch with priority contact
- Supplied with fixed 2 m (78 in) cable and lockable DIN connector

The gooseneck microphone is a stylish high quality unidirectional condenser microphone, mainly intended for public address applications.

Functions

The flexible stem base has a screw fitting, and the microphone comes with a multi-thread adaptor (3/8", 1/2", and 5/8") for mounting onto floor-stands, lecterns, panels or desktops. The microphone runs off the phantom power supply from the amplifier to which it is connected.

The on-off sliding switch, not only switches on the microphone, but also provides priority contacts for remote control switching purposes. If the priority contacts are not required, the microphone can be connected to amplifiers with 3-pin XLR-inputs, using the DIN to XLR adapter.

Certifications and approvals

Immunity	acc. to EN 55103-2
Emission	acc. to EN 55103-1

Region	Certification
Europe	CE

Parts included

Quantity	Component
1	LBB 1949/00 Gooseneck Condenser Microphone
1	DIN to XLR adapter

Technical specifications

Electrical*

Phantom power supply	
Voltage range	12 to 48 V
Current consumption	<8 mA
Performance*	
Sensitivity	0.7 mV @ 85 dB SPL (2 mV/Pa)
Maximum input sound level	110 dB SPL
Distortion	<0.6% (maximum input)
Equivalent input noise level	28 dBA SPL (S/N 66 dBA ref. 1 Pa)
Frequency response	100 Hz to 16 kHz
Output Impedance	< 200 ohm

* Technical performance data acc. to IEC 60268-4

Mechanical

Dimensions (D x L)	30 x 500 mm (19.69 x 1.18 in)
Weight	Approx. 300 g (10.5 oz)
Color	Dark gray
Cable length	2 m (78 in)
Connector	5-pin DIN 180° (lockable)

Environmental

Operating temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

LBB 1949/00 Gooseneck Condenser Microphone

Condenser gooseneck microphone, unidirectional, non-reflective dark gray finish, flexible stem, On/off switch with priority contact, fixed 2 m (78 in) cable with 5 pin DIN 180 degrees (lockable) connector. DIN to XLR adapter standard supplied.

Order number **LBB1949/00**

Accessories

LBC 1102/02 Cable Transformer

for galvanic separation

Order number **LBC1102/02**

LBC 1208/40 Microphone Cable

Microphone connection/extension cable, 3-pin XLR, 10 m (32.8 ft).

Order number **LBC1208/40**

LBB 1950/10 Plena Tabletop Unidirectional Condenser Microphone

3



Features

- Stylish tabletop unidirectional condenser microphone on a flexible stem
- Phantom powered by amplifier
- Momentary or toggle PTT-key for calls with priority contact
- Green LED, indicating microphone active
- Stable metal base design with fixed 2 m cable and lockable DIN connector

The Plena tabletop microphone is a stylish, high-quality tabletop unidirectional condenser microphone, mainly intended for making calls in a public address system. Its heavy metal base and rubber feet ensure stability on any flat surface. The special design also allows the unit to be neatly flush-mounted in desktops.

Functions

The PTT-key (press-to-talk), not only switches on the microphone, but also provides priority contacts, that are compatible with the Plena range of amplifiers. The switching characteristic of the PTT-key can be configured internally for PTT-mode (on as long as pressed) or toggle-mode (press to switch on, press again to switch off).

It is equipped with a fixed, flexible 2 m cable and a 5-pin DIN connector for the balanced signal and the priority contacts. If the priority contacts are not required, the microphone can be connected to amplifiers with 3-pin XLR-inputs, using the DIN to XLR adapter.

A green LED indicates when the microphone is active.

Controls and indicators

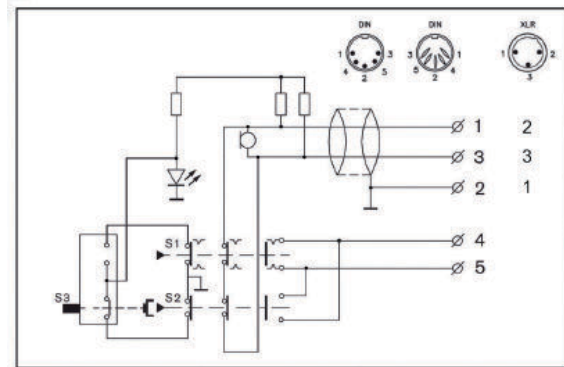
- PTT-key
- PTT status LED

Certifications and approvals

Safety	acc. to EN 60065
Immunity	acc. to EN 55103-2
Emission	acc. to EN 55103-1

Region	Certification
Europe	CE

Installation/configuration notes



Circuit diagram

Parts included

Quantity	Component
1	LBB 1950/10 PLENA Tabletop Unidirectional Condenser Microphone
1	DIN to XLR adapter

Technical specifications

Electrical

Phantom power supply	
Voltage range	12 to 48 V
Current consumption	<8 mA
Performance	
Sensitivity	0.7 mV @ 85 dB SPL (2 mV/Pa)
Maximum input sound level	110 dB SPL
Distortion	<0.6% (maximum input)
Input noise level (equiv.)	28 dB SPLA (S/N 66 dBA ref. 1 Pa)
Frequency response	100 Hz to 16 kHz
Output impedance	200 ohm

Mechanical

Base dimensions (H x W x D)	40 x 100 x 235 mm (1.57 x 3.97 x 9.25 in)
Weight	Approx. 1 kg (2.2 lb)
Color	Charcoal with silver
Stem length with mic	390 mm (15.35 in)
Cable length	2 m (6.56 ft)

Environmental

Operating temperature	-10 °C to +55 °C (14 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information**LBB 1950/10 Plena Tabletop Unidirectional Condenser Microphone**

Tabletop unidirectional condenser microphone on a flexible stem.

Order number **LBB1950/10**

Accessories**LBC 1102/02 Cable Transformer**

for galvanic separation

Order number **LBC1102/02**

LBC 1081/00 Microphone Cable

Microphone cable for permanent installations, black, 2 + 2 core screened cables (4 x 0.14 mm²), suitable for microphone connections with remote control or priority functions, length 100 m.

Order number **LBC1081/00**

LBB 9600/20 Condenser Handheld Microphone

3



Features

- Condenser transducer
- Unidirectional
- High speech intelligibility
- Low sensitivity to case noise and vibrations
- Phantom powered

This condenser microphone is based on an electric transducer element in a sturdy housing with shielding against wind and wind bursts (pops). It is intended for public address and sound reinforcement applications, such as in churches, theaters, and conference centers.

Functions

The handheld LBB 9600/20 is an excellent microphone with almost frequency independent, unidirectional directivity. Its low equivalent input noise level and insensitivity to stray electrostatic and electromagnetic fields keep the audio signal free from spurious noise.

The microphone has an on/off slide-switch and a 3-pin, lockable XLR plug. It uses a phantom power supply, which is available on all microphone inputs on Bosch public address amplifiers.

It comes with a push-on clip with a Whitworth-threaded screw fitting, and a multi-thread adaptor (3/8", 1/2", and 5/8") for mounting. The supplied 7 m (23 ft) connection cable has 3-pin, lockable male and female XLR connectors.

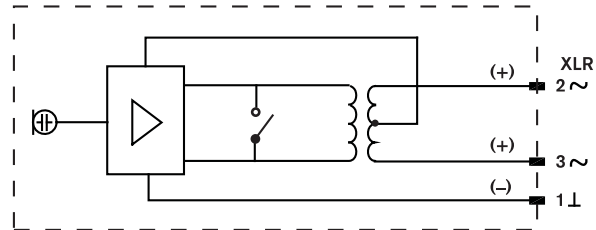
Accessories

A number of accessories, such as extension cables, table stands and floor stands are also available. See the separate microphone accessories data sheet.

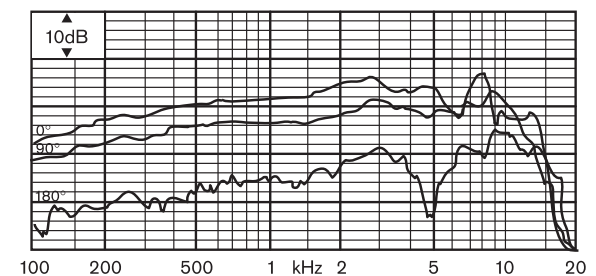
Certifications and approvals

Region	Certification	
Europe	CE	Declaration of Conformity

Installation/configuration notes



Circuit diagram



Frequency response

Technical specifications

Electrical*

Phantom power supply	
Voltage range	11 V to 52 V (acc. to DIN 45596 and IEC 268-15A)
Current consumption	<1.5 mA
Performance	
Polar pattern	Unidirectional
Frequency range	100 Hz to 16 kHz
Sensitivity	2 mV/Pa +/-3 dB (-54 dB rel. to 1 V/Pa)
Rated output impedance	200 ohm
Equivalent input noise level	26 dB (A)

* Technical performance data acc. to IEC 60268-4

Mechanical

Dimensions (D x L)	54 x 170 mm (2.13 x 6.69 in)
Weight	245 g (8.64 oz)
Color	Black
Switch	On/off slide
Cable type	

Cable length	7 m (23 ft)
Connector	3-pin XLR (male)

Environmental

Operating temperature	-20 °C to +55 °C (-4 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

LBB 9600/20 Condenser Handheld Microphone

Condenser hand-held microphone, unidirectional, matt-black finish, on/off switch, supplied with 7 m (23 ft) cable, 3-pin lockable male and female XLR connectors.

Order number **LBB9600/20**

Accessories

LBC 1221/01 Floor Stand

Microphone floor stand, three folding legs, matt black, adjustable length from 850 to 1600 mm (2.79 to 5.25 ft) with twist clamp, threaded connector 3/8" Whitworth.

Order number **LBC1221/01**

LBC 1226/01 Adjustable Boom

Microphone boom arm, matt black, maximum reach 670 mm (2.12 ft), length 840 mm (2.76 ft), fits onto 3/8" Whitworth threaded microphone stands.

Order number **LBC1226/01**

LBC 1227/01 Table Stand

Table microphone stand, matt black, heavy round cast-iron base, 130 mm (5.12 in) diameter with shock-absorbing rubber insert under surface, with 3/8" Whitworth stud.

Order number **LBC1227/01**

UHF Wireless Microphone Receivers

3



Features

- ▶ 97-193 selectable UHF channels
- ▶ PLL synthesized technology
- ▶ Pilot tone & noise squelch
- ▶ True diversity for stable reception
- ▶ Table top and 19" rack mountable

The MW1-RX-Fx wireless microphone receiver is part of the Bosch wireless microphone system. The complete system consists of a microphone receiver, a wireless belt-pack transmitter with clip-on lavalier microphone MW1-LTX-Fx or a wireless handheld transmitter MW1-HTX-Fx. The products are sold separately to offer optimal flexibility in the composition of a system.

The wireless microphone system is designed for public address in churches, restaurants, conference centers, hotels, shops and many other applications.

A dual rack mount kit (MW1-RMB) including, a front panel, and an antenna adapter kit for mounting up to two receivers in a 19" rack is also available.

Functions

Frequencies

The receivers operate in the UHF band, providing interference reduction, while selectable channels available within the frequency, ensure stable reception. The following frequencies, with selectable channels, are available:

F4: 606-630 MHz

F5: 722-746 MHz

F6: 925-937 MHz

Operation

If the microphone is already set to a selectable frequency channel, the receiver can scan the frequency band and automatically connect to the microphone. A lock function protects the receiver settings, making accidental changes impossible. This feature is also available on the Bosch hand-held microphone and the belt-pack transmitter. The LCD on the receiver shows the selected frequency, the RF and AF signal level, antenna indication and the battery status of the microphone which is used.

The microphone receiver has an balanced XLR and unbalanced output for more convenience.

Controls and indicators

- Power on/off button
- Frequency up/down buttons
- Menu selection button
- Audio level knob
- LCD with backlight displaying: frequency, antenna A/B, mute status (squelch), RF/AF level, battery level

Interconnections

- 3-pin XLR male, balanced
- 6.3 mm jack, unbalanced
- DC input

Certifications and approvals

CE Marking	Acc. to R & TTE directive 1999/5/EC
EMC	Acc. to ETSI EN 301489-1 Acc. to ETSI EN 301489-9 Acc. to ETSI EN 300422-2

Region	Certification
Europe	CE

Parts included

Quantity	Components
1	MW1-RX-Fx Wireless Microphone Receiver
1	User manual
1	1.5 m 3-pin XLR male/female cable
1	AC/DC adapter with power cord

Technical specifications

Electrical

Power source	12 V to 18 V, 500 mA
Performance	
Modulation	FM
Frequency selection	PLL synthesized control
Frequency range	MW1-RX-F4: 606 to 630 MHz, MW1-RX-F5: 722 to 746 MHz, MW1-RX-F6: 925 to 937 MHz.
Channels	193 channels (F4 and F5), 97 channels (F6). (in steps of 125 kHz)
Frequency stability	±0.005%
Technology	True diversity system
S/N ratio	>105 dB
T.H.D	<0.6% at 1 kHz
Antenna	2 x
Connector	BNC

HF impedance	50 ohm
Output	2 x
Connector	XLR 3-pin male, balanced
Output level	-12 dBV (max)
Output impedance	600 ohm
Connector	6.3 mm jack, unbalanced
Output level	0 dBV (max)
Output impedance	2.2 kohm
Squelch	Pilot tone and noise mute

Mechanical

Dimensions (H x W x D)	40 x 211 x 152 mm (1.57 x 8.30 x 5.98 in)
Color	Charcoal
Weight	Approx. 1 kg (2.20 lb)
Antenna length	50 mm (½ λ)

Environmental

Operating temperature	-25 °C to +55 °C (-13 F to +131 F)
Storage temperature	-40 °C to +70 °C (-40 F to +158 F)
Relative humidity	<95%

Ordering information

MW1-RX-F4 Wireless Microphone Receiver

UHF wireless microphone receiver, frequency range: 606-630 MHz, 193 selectable UHF channels, true diversity for stable reception, PLL synthesized technology, table top and 19" rack mountable.
Order number **MW1-RX-F4**

MW1-RX-F5 Wireless Microphone Receiver

UHF wireless microphone receiver, frequency range: 722-746 MHz, 193 selectable UHF channels, true diversity for stable reception, PLL synthesized technology, table top and 19" rack mountable.
Order number **MW1-RX-F5**

MW1-HTX-F4 Wireless Handheld Microphone

UHF wireless handheld microphone transmitter, frequency range: 606-630 MHz, 193 selectable UHF channels, LCD with battery status and frequency indication, supplied with AC/DC adapter with power cord and 1.5 m 3-pin XLR male/female cable.
Order number **MW1-HTX-F4**

MW1-HTX-F5 Wireless Handheld Microphone

UHF wireless handheld microphone transmitter, frequency range: 722-746 MHz, 193 selectable UHF channels, LCD with battery status and frequency indication, supplied with AC/DC adapter with power cord and 1.5 m 3-pin XLR male/female cable.
Order number **MW1-HTX-F5**

MW1-LTX-F4 Wireless Belt-pack Transmitter

UHF belt-pack transmitter, frequency range: 606-630 MHz, 193 selectable UHF channels, LCD with battery status and frequency indication, supplied with clip-on lavalier microphone, batteries and storage case.
Order number **MW1-LTX-F4**

MW1-LTX-F5 Wireless Belt-pack Transmitter

UHF belt-pack transmitter, frequency range: 722-746 MHz, 193 selectable UHF channels, LCD with battery status and frequency indication, supplied with clip-on lavalier microphone, batteries and storage case.
Order number **MW1-LTX-F5**

Accessories

MW1-RMB Dual Rack-mounting Kit

Dual-rack mounting kit for mounting two receivers side-by-side in a one-unit high rack space. Supplied with two BNC/BNC cables (600 mm) and a front panel with mounting holes for 2 BNC connectors for mounting two antennas.
Order number **MW1-RMB**

UHF Wireless Handheld Microphones

3



Features

- ▶ 97-193 selectable UHF channels
- ▶ PLL synthesized technology
- ▶ LCD with battery status and frequency indication
- ▶ Lock function
- ▶ Approximately 15 hours operation on alkaline batteries

The MW1-HTX-Fx wireless handheld microphones are part of the Bosch wireless microphone system. The complete system consists of a microphone receiver MW1-RX-Fx, a wireless handheld microphone MW1-HTX-Fx or a wireless belt-pack transmitter with clip-on lavalier microphone MW1-LTX-Fx. The products are sold separately to offer optimal flexibility in the composition of a system.

The wireless microphone system is designed for public address in houses of worship, restaurants, conference centers, hotels, shops and many other applications.

Functions

Frequencies

The microphones operate in the UHF band providing interference reduction, while selectable channels available within the frequency range ensure stable reception. The following frequencies with selectable channels are available:

F4: 606-630 MHz

F5: 722-746 MHz

F6: 925-937 MHz

Operation

The handheld microphones can operate approximately 15 hours on alkaline batteries. A lock function protects the microphone settings, making accidental changes impossible. This feature is also available on the Bosch microphone receiver and the belt-pack transmitter. An LCD on the handheld microphones shows the selected frequency and the battery status.

Accessories

The microphones come with a case to protect them from damage. Different color microphone caps are provided for applications, where multiple microphone systems are used simultaneously. The microphones also come with an adapter for microphone stands.

Controls and indicators

- Power on/off
- Frequency up/down buttons
- LCD displaying frequency and battery level
- Sensitivity adjustment and lock-on mode

Certifications and approvals

CE Marking	acc. to R & TTE directive 1999/5/EC
EMC	acc. to ETSI EN 301489-1 acc. to ETSI EN 301489-9 acc. to ETSI EN 300422-2

Region	Certification
Europe	CE

Installation/configuration notes



Detail of the LCD MW1-HTX-F5



Detail of microphone holder



Protective case with wireless, handheld microphone and accessories

Parts included

Quantity	Components
1	MW1-HTX-Fx Wireless Handheld Microphone
1	Microphone holder
1	Protective case
2	LR5/AA batteries
7	Color caps

Technical specifications

Electrical

Batteries	2 x LR6/AA/UM3 1.5 V
Battery life time	Approx. 15 hrs
Modulation	FM frequency modulation
Frequency selection	PLL synthesized control
Frequency range	MW1-HTX-F4: 606 to 630 MHz MW1-HTX-F5: 722 to 746 MHz MW1-HTX-F6: 925 to 937 MHz
Channels	193 channels (F4 and F5). 97 channels (F6). (in steps of 125 kHz).
Frequency stability	±0.005%
Stability	±10 kHz
Frequency deviation	±48 kHz
S/N ratio	>102 dB
RF output	10 mW
Spurious rejection	>60 dBc
Dynamic range	>110 dB
Polar pattern	Unidirectional
Transducer type	Condenser
Frequency response	50 Hz ~ 15 kHz

Mechanical

Dimensions (H x W)	260 x 50 mm (10.24 x 1.96 in)
Color	Charcoal
Weight	350 g (0.77 lb)
Antenna	Integrated

Environmental

Operating temperature	-25 °C to +55 °C (-13 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

MW1-HTX-F4 Wireless Handheld Microphone

UHF wireless handheld microphone transmitter, frequency range: 606-630 MHz, 193 selectable UHF channels, LCD with battery status and frequency indication, supplied with AC/DC adapter with power cord and 1.5 m 3-pin XLR male/female cable.
Order number **MW1-HTX-F4**

MW1-HTX-F5 Wireless Handheld Microphone

UHF wireless handheld microphone transmitter, frequency range: 722-746 MHz, 193 selectable UHF channels, LCD with battery status and frequency indication, supplied with AC/DC adapter with power cord and 1.5 m 3-pin XLR male/female cable.
Order number **MW1-HTX-F5**

MW1-RX-F4 Wireless Microphone Receiver

UHF wireless microphone receiver, frequency range: 606-630 MHz, 193 selectable UHF channels, true diversity for stable reception, PLL synthesized technology, table top and 19" rack mountable.
Order number **MW1-RX-F4**

MW1-RX-F5 Wireless Microphone Receiver

UHF wireless microphone receiver, frequency range: 722-746 MHz, 193 selectable UHF channels, true diversity for stable reception, PLL synthesized technology, table top and 19" rack mountable.
Order number **MW1-RX-F5**

UHF Wireless Belt-pack Transmitters

3



Features

- ▶ 97-193 selectable UHF channels
- ▶ PLL synthesized technology
- ▶ LCD with battery status and frequency indication
- ▶ Lock function
- ▶ Approximately 15 hours operation on alkaline batteries

The MW1-LTX-Fx wireless belt-pack transmitters are part of the Bosch wireless microphone system. The complete system consists of a microphone receiver MW1-RX-Fx, a wireless belt-pack transmitter with clip-on lavalier microphone MW1-LTX-Fx, or a wireless handheld microphone MW1-HTX-Fx. The products are sold separately to offer optimal flexibility in the composition of the system.

The wireless microphone system is designed for public address in houses of worship, restaurants, conference centers, hotels, shops and many other applications.

The lavalier microphone (MW1-LMC) can be ordered separately without the belt-pack transmitter. An optional head-worn microphone (MW1-HMC), connected to the belt-pack transmitter, can also be ordered separately.

Functions

Frequencies

This microphone system operates in the UHF band providing interference reduction, while selectable channels, available within the frequencies, ensure stable reception.

The following frequencies with selectable channels are available:

F4: 606-630 MHz.

F5: 722-746 MHz.

F6: 925-937 MHz

Operation

The belt-pack transmitter can operate approximately 15 hours on alkaline batteries. A lock function protects the transmitter settings, making accidental changes impossible. This feature is also available on the Bosch microphone receiver and the belt-pack transmitter. An LCD on the transmitter shows the selected frequency and the battery status.

The belt-pack transmitter comes with a case to protect it from damage, and a lavalier clip-on microphone (MW1-LMC).

Controls and indicators

- Power on/off
- Frequency up/down buttons
- LCD displaying frequency and battery level
- Sensitivity adjustment and lock-on mode

Certifications and approvals

CE Marking	Acc. to R & TTE directive 1999/5/EC
EMC	Acc. to ETSI EN 301489-1 Acc. to ETSI EN 301489-9 Acc. to ETSI EN 300422-2

Region	Certification
Europe	CE

Installation/configuration notes



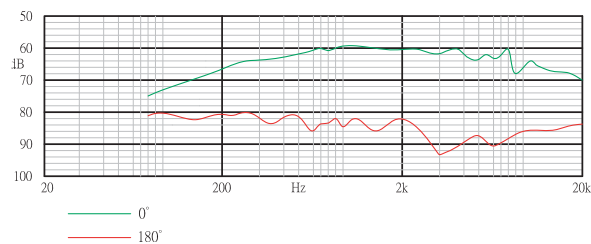
Protective case with wireless, belt-pack and accessories



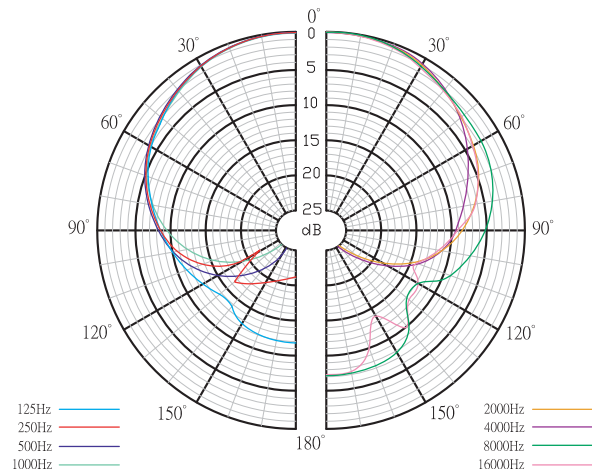
Belt-pack rear view



Lavalier microphone with clip



Frequency response



Polar diagram

Parts included

Quantity	Components
1	MW1-LTX-Fx Wireless Belt-pack Transmitter
1	Protective case
2	LR5/AA batteries
1	MW1-LMC Lavalier Microphone
1	Windscreen
1	Clip

Technical specifications

Electrical

Belt-pack	
Batteries	2 x LR6/AA/UM3 1.5 V
Battery life time	Approx. 15 hr
Modulation	FM frequency modulation
Frequency selection	PLL synthesized control
Frequency range	MW1-LTX-F4: 606 to 630 MHz MW1-LTX-F5: 722 to 746 MHz MW1-LTX-F6: 925 to 937 MHz
Channels	193 channels (F4 and F5) 97 channels (F6) (in steps of 125 kHz)
Frequency stability	±0.005%
Stability	±10 kHz
Frequency deviation	±48 kHz
S/N ratio	>102 dB
RF output	10 mW
Spurious rejection	>60 dBc
Dynamic range	>110 dB

Frequency response	50 Hz to 15 kHz
Squelch	Pilot tone & noise mute

Lavalier microphone

Connector	Mini XLR (tiny QG)
Frequency range	100 Hz to 12 kHz
Polar pattern	Cardioid
Sensitivity (at 1 kHz)	-70 dB ± 3 dB
Impedance	2.2 kohm ±30%
Max SPL for 1% THD	130 dB (SPL)

Mechanical**Belt-pack**

Dimensions (H x W x D) (without antenna)	105 x 78 x 34 mm (4.13 x 3.07 x 1.34 in)
Color	Charcoal
Weight	176 g (0.38 lb)
Antenna	Flexible

Lavalier microphone

Dimensions (L x D)	30 x 16 mm (1.18 x 0.63 in)
Color	Charcoal
Weight	20 g (0.04 lb)
Cable length	1 m (39.37 in)

Environmental

Operating temperature	-25 °C to +55 °C (-13 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information**MW1-LTX-F4 Wireless Belt-pack Transmitter**

UHF belt-pack transmitter, frequency range: 606-630 MHz, 193 selectable UHF channels, LCD with battery status and frequency indication, supplied with clip-on lavalier microphone, batteries and storage case. Order number **MW1-LTX-F4**

MW1-LTX-F5 Wireless Belt-pack Transmitter

UHF belt-pack transmitter, frequency range: 722-746 MHz, 193 selectable UHF channels, LCD with battery status and frequency indication, supplied with clip-on lavalier microphone, batteries and storage case. Order number **MW1-LTX-F5**

MW1-RX-F4 Wireless Microphone Receiver

UHF wireless microphone receiver, frequency range: 606-630 MHz, 193 selectable UHF channels, true diversity for stable reception, PLL synthesized technology, table top and 19" rack mountable.

Order number **MW1-RX-F4**

MW1-RX-F5 Wireless Microphone Receiver

UHF wireless microphone receiver, frequency range: 722-746 MHz, 193 selectable UHF channels, true diversity for stable reception, PLL synthesized technology, table top and 19" rack mountable.

Order number **MW1-RX-F5**

MW1-LMC Lavalier Microphone

Lavalier clip-on microphone with windscreen, for use with the Belt-pack transmitter MW1-LTX-Fx.

Order number **MW1-LMC**

MW1-HMC Head-worn Microphone

Head-worn microphone with miniature condenser microphone with omni-directional pick-up pattern, for use with the Belt-pack transmitter MW1-LTX-Fx.

Order number **MW1-HMC**

MW1-RX-Fx Wireless Microphone Receivers



Features

- ▶ 193 automatically selectable UHF channels
- ▶ PLL synthesized technology
- ▶ Pilot tone & noise squelch
- ▶ True diversity for stable reception
- ▶ Table top and 19" rack mountable

The MW1-RX-F1 and MW1-RX-F2 wireless microphone receiver is part of the Bosch wireless microphone system. The complete system consists of a microphone receiver, a wireless belt-pack transmitter with clip-on lavalier microphone (MW1-LTX-F1 or MW1-LTX-F2) or a wireless handheld transmitter (MW1-HTX-F1 or MW1-HTX-F2). The products are sold separately to offer optimal flexibility in the composition of a system.

The wireless microphone system is designed for public address in churches, restaurants, conference centers, hotels, shops and many other applications.

A dual rack mount kit (MW1-RMB) including, a front panel, and an antenna adapter kit for mounting up to two receivers in a 19" rack are also available.

Functions

Frequencies

The receivers operate in the UHF band, providing interference reduction, while 193 available frequencies ensure stable reception. The MW1-RX-F1 operates in the 790 to 814 MHz frequency band, and the MW1-RX-F2 operates in the 852 to 876 MHz band. The country overview lists the recommended type number for each country.

Operation

If the microphone is already set to a frequency, the receiver can scan the frequency band and automatically connect to the microphone. A lock function protects the receiver settings, making accidental changes impossible. This feature is also available on the Bosch hand-held microphone and the belt-pack transmitter. The LCD on the receiver shows the selected frequency, the RF and AF signal level, antenna indication and the battery status of the microphone which is used.

The microphone receiver has balanced XLR and unbalanced output for more convenience.

Controls and indicators

- Frequency up/down buttons
- Menu selection button
- Audio level knob
- LCD with backlight displaying: frequency, antenna A/B, mute status (squelch), RF/AF level, battery level

Interconnections

- 3-pin XLR male, balanced
- 6.3 mm jack, unbalanced

Certifications and approvals

CE Marking	acc. to R & TTE directive 1999/5/EC
EMC	acc. to ETSI EN 301489-1 acc. to ETSI EN 301489-9 acc. to ETSI EN 300422-2

Region	Certification
Europe	CE

Installation/configuration notes

Country Overview

Austria	MW1-RX-F1 / MW1-RX-F2
Belgium	MW1-RX-F1 / MW1-RX-F2
Czech republic	MW1-RX-F1
Denmark	MW1-RX-F1
Estonia	MW1-RX-F1 / MW1-RX-F2
Finland	MW1-RX-F2
France	MW1-RX-F1
Germany	MW1-RX-F1 / MW1-RX-F2
Hungary	MW1-RX-F1 / MW1-RX-F2
Ireland	MW1-RX-F2
Italy	MW1-RX-F1 / MW1-RX-F2
Liechtenstein	MW1-RX-F1 / MW1-RX-F2
Lithuania	MW1-RX-F1
Luxembourg	MW1-RX-F1 / MW1-RX-F2
Netherlands	MW1-RX-F2
Norway	MW1-RX-F1 / MW1-RX-F2
Poland	MW1-RX-F1 / MW1-RX-F2
Portugal	MW1-RX-F1
Slovakia	MW1-RX-F2
Switzerland	MW1-RX-F1
Spain	MW1-RX-F2
Sweden	MW1-RX-F2

United Kingdom	MW1-RX-F2
Australia	MW1-RX-F1
China	MW1-RX-F1
Indonesia	MW1-RX-F1 / MW1-RX-F2
Japan	MW1-RX-F1
Korea	MW1-RX-F1
Philippines	MW1-RX-F1 / MW1-RX-F2
Taiwan	MW1-RX-F1
Thailand	MW1-RX-F1 / MW1-RX-F2
Vietnam	MW1-RX-F1 / MW1-RX-F2
MW1-RX-F1	790 to 814 MHz
MW1-RX-F2	852 to 876 MHz

Parts included

Quantity	Components
1	MW1-RX-F1 Wireless Microphone Receiver or MW1-RX-F2 Wireless Microphone Receiver
1	User manual
1	1.5 m 3-pin XLR male/female cable
1	AC/DC adapter with power cord

Technical specifications

Electrical

Power source	12 V to 18 V, 500 mA
Performance	
Modulation	FM
Frequency selection	PLL synthesized control
Frequency range	MW1-RX-F1: 790 to 814 MHz MW1-RX-F2: 852 to 876 MHz
Channels	193 channels in steps of 125 kHz
Frequency stability	±0.005%
Technology	True diversity system
S/N ratio	>100 dB
Antenna	2 x
Connector	BNC
HF impedance	50 ohm
Output	2 x
Connector	XLR-3 male, balanced
Output level	-12 dBV (max)

Output impedance	600 ohm
Connector	6.3 mm jack, unbalanced
Output level	0 dBV (max)
Output impedance	2.2 kohm
Squelch	Pilot tone and noise mute

Mechanical

Dimensions (H x W x D)	40 x 211 x 152 mm
Color	Charcoal
Weight	Approx. 1 kg
Antenna length	50 mm (½ λ)

Environmental

Operating temperature	-25 °C to +55 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	<95%

Ordering information

Accessories

MW1-RMB Dual Rack-mounting Kit

Dual-rack mounting kit for mounting two receivers side-by-side in a one-unit high rack space. Supplied with two BNC/BNC cables (600 mm) and a front panel with mounting holes for 2 BNC connectors for mounting two antennas.

Order number **MW1-RMB**

MW1-HTX-Fx Wireless Handheld Microphones



Features

- ▶ 193 selectable UHF channels
- ▶ PLL synthesized technology
- ▶ LCD with battery status and frequency indication
- ▶ Lock function
- ▶ Approximately 15 hours operation on alkaline batteries

The MW1-HTX-F1 and MW1-HTX-F2 wireless handheld microphones are part of the Bosch wireless microphone system. The complete system consists of a microphone receiver (MW1-RX-F1 or MW1-RX-F2), a wireless handheld microphone (MW1-HTX-F1 or MW1-HTX-F2) or a wireless belt-pack transmitter with clip-on lavalier microphone (MW1-LTX-F1 and MW1-LTX-F2). The products are sold separately to offer optimal flexibility in the composition of a system.

The wireless microphone system is designed for public address in houses of worship, restaurants, conference centers, hotels, shops and many other applications.

Functions

Frequencies

The microphones operate in the UHF band providing interference reduction, while the true diversity ensures stable reception. The MW1-HTX-F1 operates in the 790 to 814 MHz frequency band, and the MW1-RX-F2 operates in the 852 to 876 MHz band, each providing 193 selectable frequencies. The country overview lists the recommended type number for each country.

Operation

The handheld microphones can operate approximately 15 hours on alkaline batteries. A lock function protects the microphone settings, making accidental changes impossible. This feature is also available on the Bosch microphone receiver and the belt-pack transmitter. An LCD on the handheld microphones shows the selected frequency and the battery status.

Accessories

The microphones come with a case to protect them from damage. Different color microphone caps are provided for applications, where multiple microphone systems are used simultaneously. The microphones also come with an adapter for microphone stands.

Controls and indicators

- Frequency up/down buttons
- LCD displaying frequency and battery level

Certifications and approvals

CE Marking	acc. to R & TTE directive 1999/5/EC
EMC	acc. to ETSI EN 301489-1 acc. to ETSI EN 301489-9 acc. to ETSI EN 300422-2

Region	Certification
Europe	CE

Installation/configuration notes

Country Overview

Austria	MW1-RX-F1 / MW1-RX-F2
Belgium	MW1-RX-F1 / MW1-RX-F2
Czech republic	MW1-RX-F1
Denmark	MW1-RX-F1
Estonia	MW1-RX-F1 / MW1-RX-F2
Finland	MW1-RX-F2
France	MW1-RX-F1
Germany	MW1-RX-F1 / MW1-RX-F2
Hungary	MW1-RX-F1 / MW1-RX-F2
Ireland	MW1-RX-F2
Italy	MW1-RX-F1 / MW1-RX-F2
Liechtenstein	MW1-RX-F1 / MW1-RX-F2
Lithuania	MW1-RX-F1
Luxembourg	MW1-RX-F1 / MW1-RX-F2
Netherlands	MW1-RX-F2
Norway	MW1-RX-F1 / MW1-RX-F2
Poland	MW1-RX-F1 / MW1-RX-F2
Portugal	MW1-RX-F1
Slovakia	MW1-RX-F2
Spain	MW1-RX-F2
Switzerland	MW1-RX-F1
Sweden	MW1-RX-F2
United Kingdom	MW1-RX-F2
Australia	MW1-RX-F1

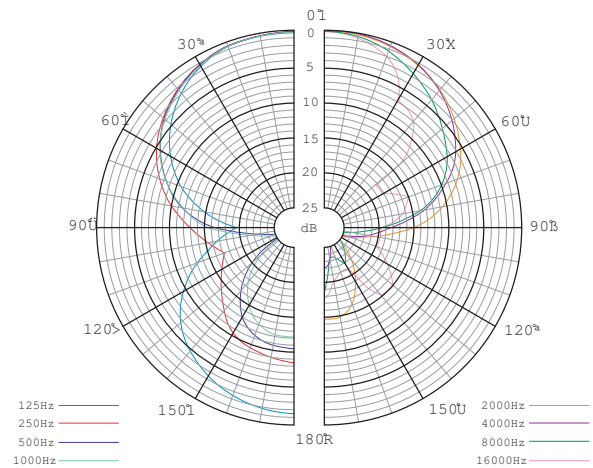
China	MW1-RX-F1
Indonesia	MW1-RX-F1 / MW1-RX-F2
Japan	MW1-RX-F1
Korea	MW1-RX-F1
Philippines	MW1-RX-F1 / MW1-RX-F2
Taiwan	MW1-RX-F1
Thailand	MW1-RX-F1 / MW1-RX-F2
Vietnam	MW1-RX-F1 / MW1-RX-F2
MW1-RX-F1	790 to 814 MHz
MW1-RX-F2	852 to 876 MHz



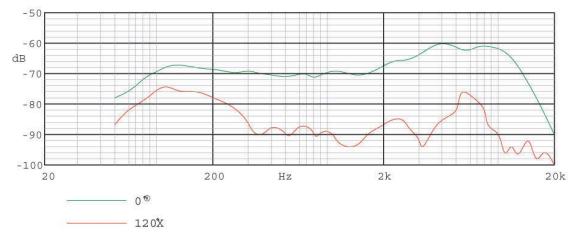
Detail of microphone holder



Protective case with wireless, handheld microphone and accessories



Polar diagram



Frequency response

Parts included

Quantity	Components
1	MW1-HTX-F1 Wireless Handheld Microphone or MW1-HTX-F2 Wireless Handheld Microphone
1	Microphone holder
1	Protective case
2	LR5/AA batteries
6	Color caps

Technical specifications

Electrical

Batteries	2 x LR6/AA/UM3 1.5 V
Battery life time	Approx. 15 hrs
Modulation	FM frequency modulation
Frequency selection	PLL synthesized control
Frequency range	MW1-HTX-F1: 790 to 814 MHz MW1-HTX-F2: 852 to 876 MHz
Channels	193 channels in steps of 125 kHz
Frequency stability	±0.005%
Frequency deviation	± 48 kHz

S/N ratio	>102 dB
RF output	10 mW
Spurious rejection	>60 dBc
Dynamic range	>110 dB
Response	50 Hz ~ 15 kHz

Mechanical

Dimensions (H x W)	260 x 50 mm
Color	Charcoal
Weight	350 g
Antenna	Integrated

Environmental

Operating temperature	-25 °C to +55 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	<95%

MW1-LTX-Fx Wireless Belt-pack Transmitters

3



Features

- ▶ 193 selectable UHF channels
- ▶ PLL synthesized technology
- ▶ LCD with battery status and frequency indication
- ▶ Lock function
- ▶ Approximately 15 hours operation on alkaline batteries

The MW1-LTX-F1 and MW1-LTX-F2 wireless belt-pack transmitters are part of the Bosch wireless microphone system. The complete system consists of a microphone receiver (MW1-RX-F1 or MW1-RX-F2), a wireless belt-pack transmitter with clip-on lavalier microphone (MW1-LTX-F1 or MW1-LTX-F2), a wireless handheld microphone (MW1-HTX-F1 or MW1-HTX-F2). The products are sold separately to offer optimal flexibility in the composition of the system.

The wireless microphone system is designed for public address in houses of worship, restaurants, conference centers, hotels, shops and many other applications.

The lavalier microphone (MW1-LMC) can be ordered separately without the belt-pack transmitter. An optional head-worn microphone (MW1-HMC) can also be ordered separately.

Functions

Frequencies

This microphone system operates in the UHF band providing interference reduction, while 193 available frequencies ensure stable reception. The MW1-LTX-F1 operates in the 790 to 814 MHz frequency band, and the MW1-LTX-F2 operates in the 852 to 876 MHz band. The country overview lists the recommended type number for each country.

Operation

The belt-pack transmitter can operate approximately 15 hours on alkaline batteries. A lock function protects the transmitter settings, making accidental changes impossible. This feature is also available on the Bosch microphone receiver and the belt-pack transmitter. An LCD on the transmitter shows the selected frequency and the battery status.

The belt-pack transmitter comes with a case to protect it from damage, and a lavalier clip-on microphone (MW1-LMC).

Controls and indicators

- Frequency up/down buttons
- LCD displaying frequency and battery level

Certifications and approvals

CE Marking	acc. to R & TTE directive 1999/5/EC
EMC	acc. to ETSI EN 301489-1 acc. to ETSI EN 301489-9 acc. to ETSI EN 300422-2

Region	Certification
Europe	CE

Installation/configuration notes

Country Overview

Austria	MW1-RX-F1/MW1-RX-F2
Belgium	MW1-RX-F1/MW1-RX-F2
Czech republic	MW1-RX-F1
Denmark	MW1-RX-F1
Estonia	MW1-RX-F1/MW1-RX-F2
Finland	MW1-RX-F2
France	MW1-RX-F1
Germany	MW1-RX-F1/MW1-RX-F2
Hungary	MW1-RX-F1/MW1-RX-F2
Ireland	MW1-RX-F2
Italy	MW1-RX-F1/MW1-RX-F2
Liechtenstein	MW1-RX-F1/MW1-RX-F2
Lithuania	MW1-RX-F1
Luxembourg	MW1-RX-F1/MW1-RX-F2
Netherlands	MW1-RX-F2
Norway	MW1-RX-F1/MW1-RX-F2
Poland	MW1-RX-F1/MW1-RX-F2
Portugal	MW1-RX-F1
Slovakia	MW1-RX-F2
Spain	MW1-RX-F2

Switzerland	MW1-RX-F1
Sweden	MW1-RX-F2
United Kingdom	MW1-RX-F2
Australia	MW1-RX-F1
China	MW1-RX-F1
Indonesia	MW1-RX-F1/MW1-RX-F2
Japan	MW1-RX-F1
Korea	MW1-RX-F1
Philippines	MW1-RX-F1/MW1-RX-F2
Taiwan	MW1-RX-F1
Thailand	MW1-RX-F1/MW1-RX-F2
Vietnam	MW1-RX-F1/MW1-RX-F2
MW1-RX-F1	790 to 814 MHz
MW1-RX-F2	852 to 876 MHz



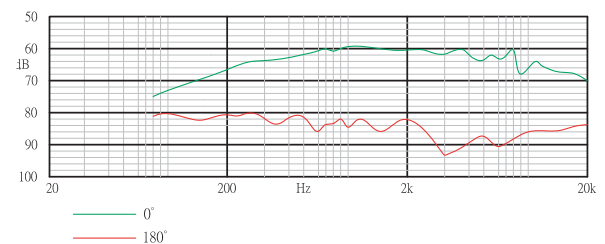
Protective case with wireless, belt-pack and accessories



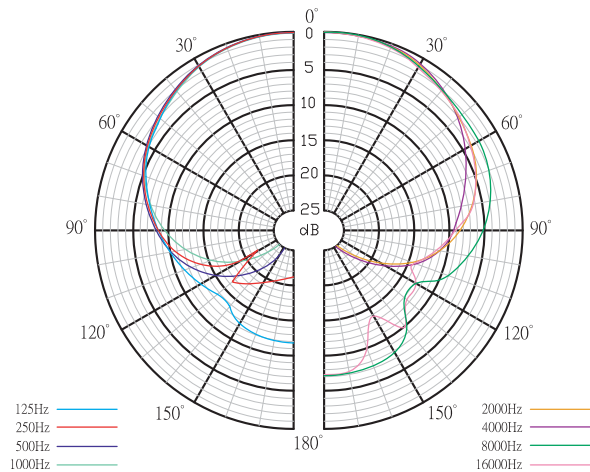
Belt-pack rear view



Lavalier microphone with clip



Frequency response



Polar diagram

Parts included

Quantity	Components
1	MW1-LTX-F1 Wireless Belt-pack Transmitter or MW1-LTX-F2 Wireless Belt-pack Transmitter
1	Protective case
2	LR5/AA batteries
1	MW1-LMC Lavalier Microphone
1	Windscreen
1	Clip

Technical specifications

Electrical

Belt-pack	
Batteries	2 x LR6/AA/UM3 1.5 V
Battery life time	Approx. 15 hr
Modulation	FM frequency modulation
Frequency selection	PLL synthesized control
Frequency range	MW1-LTX-F1: 790 to 814 MHz MW1-LTX-F2: 852 to 876 MHz
Channels	193 channels in steps of 125 kHz
Frequency stability	$\pm 0.005\%$
Frequency deviation	± 48 kHz
S/N ratio	> 102 dB
RF output	10 mW
Spurious rejection	> 60 dBc
Dynamic range	> 110 dB

Response	50 Hz to 15 kHz
Squelch	Pilot tone & noise mute

Lavalier microphone

Connector	Mini XLR (tiny QG)
Frequency range	100 Hz to 12 kHz
Polar pattern	Cardioid
Sensitivity (at 1 kHz)	-70 dB ± 3 dB
Impedance	2.2 kohm $\pm 30\%$
Max SPL for 1% THD	130 dB(SPL)

Mechanical

Belt-pack	
Dimensions (H x W x D)	105 x 78 x 34 mm without antenna
Color	Charcoal
Weight	176 g
Antenna	Flexible

Lavalier microphone

Dimensions (L x D)	30 x 16 mm
Color	Charcoal
Weight	20 g
Cable length	1 m

Environmental

Operating temperature	-25 °C to $+55$ °C
Storage temperature	-40 °C to $+70$ °C
Relative humidity	$< 95\%$

Ordering information

Accessories

MW1-HMC Head-worn Microphone

Head-worn microphone with miniature condenser microphone with omni-directional pick-up pattern, for use with the Belt-pack transmitter MW1-LTX-Fx.
Order number **MW1-HMC**

MW1-LMC Lavalier Microphone

Lavalier clip-on microphone with windscreen, for use with the Belt-pack transmitter MW1-LTX-Fx.
Order number **MW1-LMC**

MW1-HMC Head-worn Microphone



Features

- ▶ Optional use with belt-pack transmitters MW1-LTX-Fx
- ▶ Comfortable and lightweight
- ▶ Miniature condenser microphone with omni-directional pick-up pattern
- ▶ No proximity effect

This head-worn microphone can be optionally used and connected to the Belt-pack transmitter MW1-LTX-Fx. The sturdy, yet lightweight neck-strip combines secure fitting with comfortable wearing. The integrated drip ring protects the microphone capsule against humidity (sweat), guaranteeing longer operating life. A storage bag and two windscreens are supplied as standard accessories.

Functions

Operation

Thanks to the omni-directional pick-up pattern, this microphone can be used unobtrusively, positioned next to the speaker's mouth.

Interconnections

- Mini XLR (tiny QG)

Parts included

Quantity	Components
1	MW1-HMC Head-worn Microphone
1	Storage bag
2	Windscreens

Technical specifications

Electrical

Power source	from Belt-pack transmitter MW1-LTX-Fx
Transducer	Condenser

Polar pattern	Omni-directional
Frequency range	60 to 15000 Hz
Sensitivity	10 mV/Pa
Max. SPL for 1% THD	130 dB (SPL)
Impedance	2200 ohm \pm 30%

Mechanical

Dimensions (H x W)	160 x 140 mm (6.30 x 5.514 in)
Color	Charcoal with white
Weight	32 g (0.07 lb)
Cable length	1.45 m (4.76 ft)

Environmental

Operating temperature	-25 °C to +55 °C (-13 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering information

MW1-HMC Head-worn Microphone

Head-worn microphone with miniature condenser microphone with omni-directional pick-up pattern, for use with the Belt-pack transmitter MW1-LTX-Fx.

Order number **MW1-HMC**

MW1-RMB Dual Rack-mounting Kit

3



The kit is for mounting MW1-RX-Fx Wireless Microphone Receivers in 19" racks. It can mount two units, side by side in a one-unit high rack space. When only one unit is used, the other half of the frame can be fitted with the supplied panel, which can mount the two antennas. These are connected to the receiver via the two supplied BNC cables.



Notice

The product photos include the MW1-RX-Fx Wireless Microphone Receiver

Parts included

Quantity	Component
1	MW1-RMB Dual Rack-mounting Kit
4	Mounting screws for frame
1	Front panel with mounting holes for 2 BNC connectors
4	Mounting screws for panel
2	Double sided BNC connectors (for panel)
2	BNC/BNC cables (600 mm)

Ordering information

MW1-RMB Dual Rack-mounting Kit

Dual-rack mounting kit for mounting two receivers side-by-side in a one-unit high rack space. Supplied with two BNC/BNC cables (600 mm) and a front panel with mounting holes for 2 BNC connectors for mounting two antennas.

Order number **MW1-RMB**

MW1-LMC Lavalier Microphone



3

Ordering information

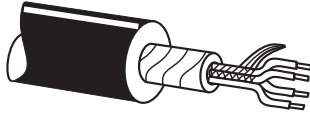
MW1-LMC Lavalier Microphone

Lavalier clip-on microphone with windscreen, for use with the Belt-pack transmitter MW1-LTX-Fx.

Order number **MW1-LMC**

LBC 1081/00 Microphone Cable

3



Features

- ▶ Two-plus-two core screened cable
- ▶ Black PVC sheath, 5.5 mm diameter
- ▶ Two extra cores for remote control or priority functions
- ▶ For permanent installations
- ▶ 0.14 mm² cross-section cores

Ordering information

LBC 1081/00 Microphone Cable

Microphone cable for permanent installations, black, 2 + 2 core screened cables (4 x 0.14 mm²), suitable for microphone connections with remote control or priority functions, length 100 m.

Order number **LBC1081/00**

LBC 1208/40 Microphone Cable

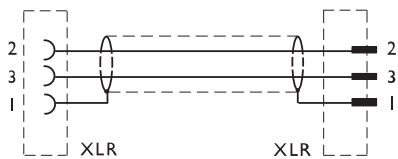


3

Features

- ▶ 10 m (32.8 ft) extension cable
- ▶ Twin-core screened cable
- ▶ Three-pole lockable male and female XLR connectors (metal)

System overview



LBC 1208/40 (10 m)

Certifications and approvals

Region	Certification
Europe	CE

Technical specifications

Mechanical

Length	10 m (32.8 ft)
Weight	420 g (1.13 lb)
Color	black

Ordering information

LBC 1208/40 Microphone Cable

Microphone connection/extension cable, 3-pin XLR, 10 m (32.8 ft).
Order number **LBC1208/40**

LBC 1215/01 Microphone Clamp

3



Features

- ▶ Quick-release universal microphone clamp
- ▶ Spring-loaded microphone holder
- ▶ Friction angular adjustment
- ▶ Screws onto a 3/8", 1/2" or 5/8" Whitworth thread
- ▶ Holds microphone stem with 19 to 32 mm diameter

The 1215/01 Microphone Clamp is available for all Bosch hand-held microphones.

Certifications and approvals

Region	Certification
Europe	CE

Technical specifications

Mechanical

Weight	60 g (0.13 lb)
Color	Matt black

Ordering information

LBC 1215/01 Microphone Clamp

Universal spring-loaded microphone holder, friction angular adjustment, matt black, screws onto a 3/8", 1/2", or 5/8" Whitworth thread, holds microphone stem with 19 to 32 mm diameter.

Order number **LBC1215/01**

LBC 1221/01 Floor Stand



3

Features

- ▶ Adjustable from 850 to 1600 mm (2.79 to 5.25 ft) with twist clamp
- ▶ Three folding legs (360 mm; 1.18 ft) for stability
- ▶ Column terminates in male 3/8" Whitworth thread

Technical specifications

Mechanical

Dimensions (folded)	850 x 110 mm (33.46 x 5.25 in)
Weight	2.4 kg (6.43 lb)
Color	matt black

Ordering information

LBC 1221/01 Floor Stand

Microphone floor stand, three folding legs, matt black, adjustable length from 850 to 1600 mm (2.79 to 5.25 ft) with twist clamp, threaded connector 3/8" Whitworth.
Order number **LBC1221/01**

Accessories

LBC 1226/01 Adjustable Boom

Microphone boom arm, matt black, maximum reach 670 mm (2.12 ft), length 840 mm (2.76 ft), fits onto 3/8" Whitworth threaded microphone stands.
Order number **LBC1226/01**

LBC 1226/01 Adjustable Boom

3



Features

- ▶ Adjustable in reach and angle (quick-release screw clamp)
- ▶ Maximum reach of 670 mm (2.12 ft)
- ▶ Fits onto 3/8" Whitworth thread

Technical specifications

Mechanical

Length	840 mm (2.76 ft)
Weight	700 g (1.88 lb)
Color	matt black

Ordering information

LBC 1226/01 Adjustable Boom

Microphone boom arm, matt black, maximum reach 670 mm (2.12 ft), length 840 mm (2.76 ft), fits onto 3/8" Whitworth threaded microphone stands.
Order number **LBC1226/01**

Accessories

LBC 1221/01 Floor Stand

Microphone floor stand, three folding legs, matt black, adjustable length from 850 to 1600 mm (2.79 to 5.25 ft) with twist clamp, threaded connector 3/8" Whitworth.
Order number **LBC1221/01**

LBC 1227/01 Table Stand



3

Features

- ▶ Heavy-duty table stand
- ▶ 3/8" Whitworth stud
- ▶ Shock-absorbing under surface

Technical specifications

Mechanical

Diameter	130 mm (5.12 in)
Weight	995 g (2.66 lb)
Color	matt black

Ordering information

LBC 1227/01 Table Stand

Table microphone stand, matt black, heavy round cast-iron base, 130 mm (5.12 in) diameter with shock-absorbing rubber insert under surface, with 3/8" Whitworth stud.
Order number **LBC1227/01**

