

Wireless Microphone

Interview Camera-Mount Wireless



Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

- MT200 Bodypack Transmitter
- MR200 Bodypack Receiver
- Uni-directional lavalier microphone
- Earphone
- Mount adapter
- 3.5mm - 3.5mm jack plug cable
- 3.5mm TRRS - 3.5mm TRS socket plug cable
- 3.5mm - 6.3mm jack plug cable
- XLR - 3.5mm plug cable
- Carry case

Configuration of the Packages

This manual is for the M200 Wireless Microphone Packages. The contents of each package are described below.

The package consists of a body-pack transmitter (MT200), a body-pack receiver (MR200), and their accessories.

Body-pack transmitter MT200



Body-pack receiver MR200



Supplied accessories

Uni-directional lavalier microphone (1) Holder clip (1) Wind screen (1) Shoe mount adapter (1) Belt clip (1)



XLR-3.5mm locking conversion output
cable for the MR100 (1)



3.5mm plug-3.5mm locking plug
conversion cable (1)



6.3mm plug-3.5mm plug
conversion cable (1)



3.5mm TRRS-3.5mm TRS socket
conversion cable (1)



In-ear earphone (1)



Carry case (1)



Features

The Microdot M200 camera-mount wireless lavalier microphone system includes two transmitters and one receiver OR one transmitters and one receiver. System can use with small video camera or the digital interchangeable lens camera, It's suitable for the ENG (Electronic news interview), EFP (Electronic Field Production) and sports events, micro film, wedding ad so on. It Features the proven combination of reliability, flexible control, and broadcast-quality sound for videographers, journalists, and content creators.

They are equipped with a DSP for transmission of highquality sound using digital compander processing.

The M200 gives you the tools to adapt and meet the wireless challenges that inevitably arise on set. The frequency scan function searches for the clearest frequency at your location.

The system includes a cardioid lavalier mic, an earphone, a bodypack transmitter (MT200), and a camera-mount receiver (MR200). It connects to a camcorder or a DSLR/mirrorless camera to capture crisp-sounding speech or dialog in noisy environments, for projects ranging from documentaries to wedding videos, corporate spots, and hands-free interviews. The packages can be used for various purposes, such as ENG (Electronic News Gathering), EFP (Electronic Field Production) and sports events.

The contents of each package are described below.

Built for Dependable Performance in the Field

The M200 features rugged, metal chassis well suited for extended use on location. The lightweight and compact bodypack transmitter is easy to conceal. Its rounded edges are soft to the touch making it comfortable to wear for the talent. A locking connector ensures that your lav doesn't detach at a critical moment, while a convenient switch allows you to mute your mic.

Using the included shoemount adapter, the equally compact receiver easily mounts on your camera without adding much weight. The included cables allow you to connect the receiver to the 3.5mm or XLR audio input of any DSLR/mirrorless, camcorder, or recording device.

Both transmitter and receiver feature LED displays showing reception quality, battery status, and audio level.

Broadcast-Quality Sound

The M200 ships with a cardioid lavalier microphone, which delivers a natural sound optimized for speech intelligibility. Its directional cardioid polar pattern helps to reject unwanted background sound, making it ideal in loud environments such as trade-show floors, busy public areas, or sporting events.

Portable Dual Channel Receiver

The output mode can be selected to MONO or STEREO. When the output mode is mono, the audio from left and right channel will be mixed.

When it is stereo, the left (Group A) and right (Group B) audio channel output will be separated. System default is mono.

Additional Features

Adaptive-diversity reception for reliable transmission up to 330'

32 MHz bandwidth with 100 tunable UHF channel for clean reception to prevent intermodulation

Pilot tone squelch for eliminating RF noise when transmitter is turned off

Receiver with adjustable output range of 42 dB to match the audio input of your camera or recording device

User-friendly menu operation with flexible control options

Transmitter and receiver feature 3-step battery-life indicator

RF Mute function

6 hours of battery life

Powered via AA batteries

Wide range of accessories adapts the system to a variety of applications

M200 Frequency Band

638.000 MHz to 667.700 MHz (Group A)

668.000 MHz to 697.700 MHz (Group B)

Body-pack transmitter (MT200)

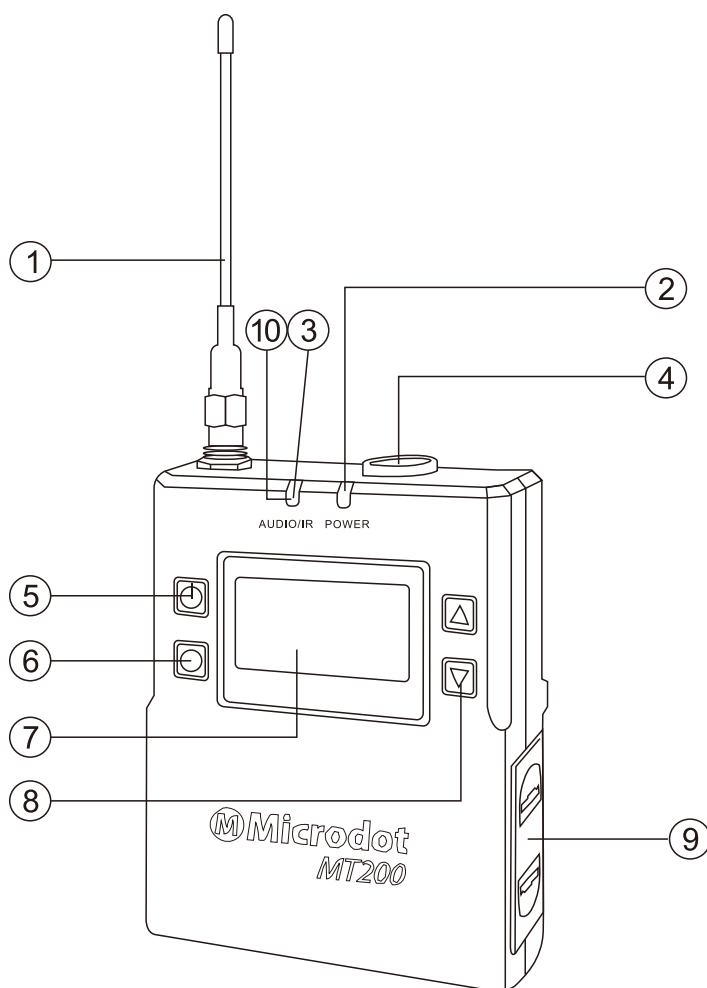
This transmitter is a lightweight, compact transmitter that employs a crystal-controlled PLL synthesizer. It is equipped with a muting function and a BMP-type microphone input connector. The RF power output can be switched. It is also equipped with a MIC/LINE input switching function to support a variety of input levels.

Body-pack receiver (MR200)

This receiver employs a true diversity method featuring little signal dropout and an angle-adjustable antenna. It comes with an adapter for mounting on a compact camcorder (HXR-NX3, etc.). It also features a Clear Channel Scan function to search for available channels.

Name and Function of Parts

1. Digital wireless transmitter



① Antenna

Disassemble SMA antenna

② Power indicator

Display the battery capacity

Indicator color	Status
On (Green)	The battery capacity is full
Flash (Red)	The battery capacity is insufficient
Off	The power is off or the battery is drained

③ Audio input level indicator/IR Sync

On(Green):Audio input level is correct.

On(Red):Mute(The audio signal is disable)

④ Audio input port

⑤ Power/Mute button

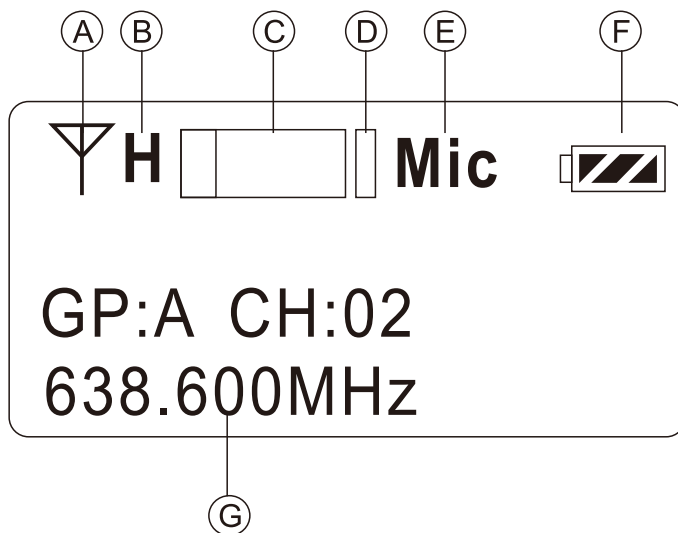
Turn on or turn off the power, this button can be used to turn on or turn off the mute function.

Function	Operation
Turn on the power	Press the button 1second or longer time
Turn off the power	Press the button until the indicator off
Turn on the mute	Press the button
Turn off the mute	Press the button

⑥ Menu setting button

To adjust the display's function setting and confirm the setup parameter.

⑦ Display



A.RF transfer indicator

Indicate the transfer status

▽ : Transferring

— : Transfer stop

B.RF transfer power indicator

Indicate the current transfer power, can change the setting through the RF transfer power setting function.

C.Audio input level

Display the audio input level

D. Peak value indicator

The indicator will light up when the signal is lower than the 3dB, it's used to indicate when the input level is too high.

E. Input level indicator

Display the input level status

MIC: Mic input

LINE: Line input

F: Battery capacity indicator

Display the battery real-time capacity.

G: Menu display

Display group, channel and frequency

⑧ “▲” or “▼” button

Choose the function or the parameter of the menu

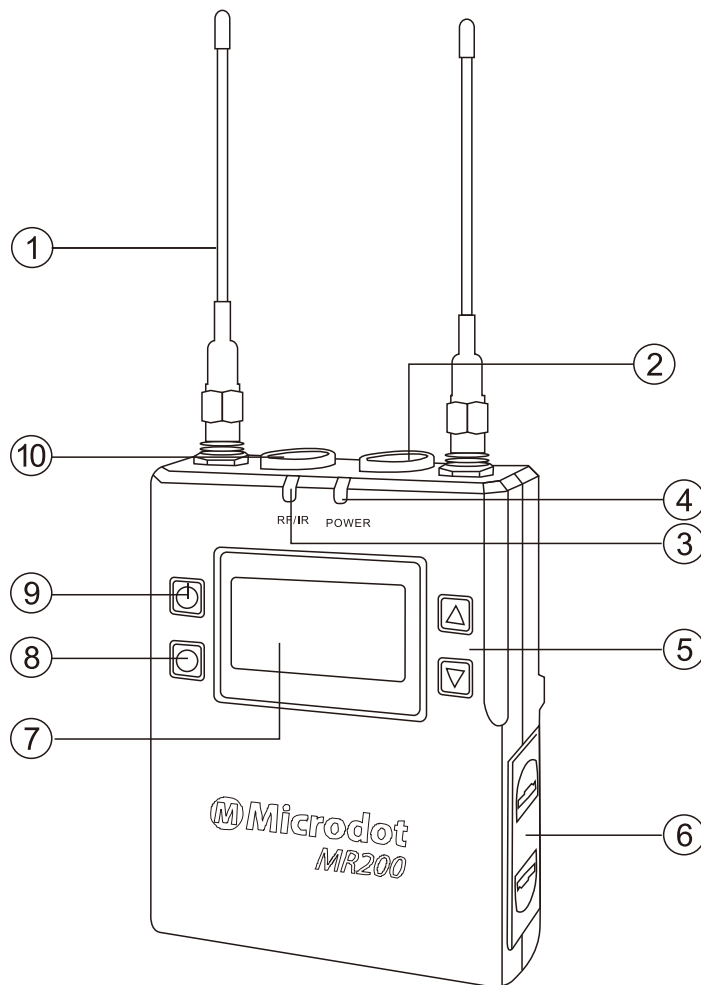
⑨ Battery box

Can accommodate two AA battery

⑩ IR Sync window

The setting frequency of the receiver and the COMP-EXP mode.

2.Portable dual channel receiver



① Antenna

Disassemble SMA antenna

② Output (Audio output) port

Use one end of the transfer output cable to connect with this port, and the other end can be connected to the input of camera, mixer or amplifier.

③ RF (RF input)/IR (Sync) indicator

Display RF receiver signal and IR (Sync) window

④ Power indicator

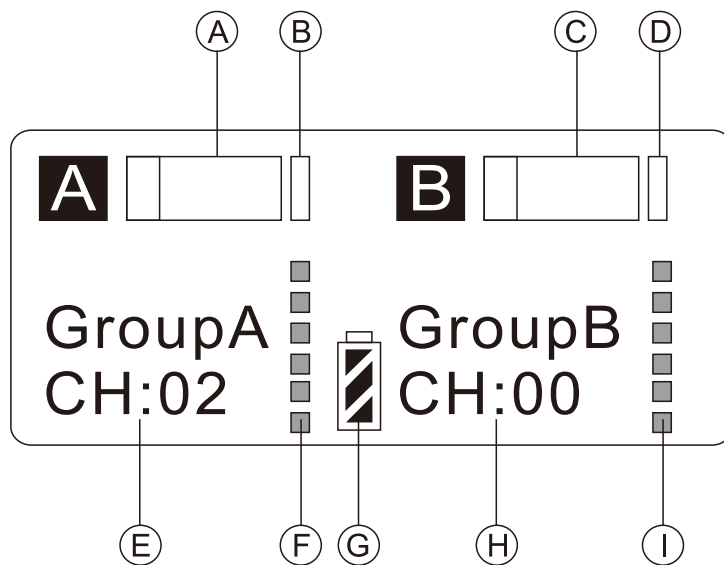
⑤ “▲” or “▼” button

Choose the function or the parameter of the menu

⑥ Battery box

Can accommodate two AA battery

⑦ Display



A.A channel audio input level

Display the audio input level

B.A channel peak value indicator

The indicator will light up when the signal is lower than the 3dB, it's used to indicate when the input level is too high.

C.B channel audio input level

Display the audio input level.

D.B channel peak value indicator

The indicator will light up when the signal is lower than the 3dB, it's used to indicate when the input level is too high.

E.Menu A channel display part

Display the group of A channel, channel and the detail frequency.

F.A channel RF level(receiving level)indicator

Display the current receiving level status

G.Battery capacity indicator

Display the battery real-time capacity.

H.Menu B channel display part

Display the group of B channel, channel and the detail frequency.

I.B channel RF level(receiving level)indicator

Display the current receiving level status

⑧ Menu setting button

To adjust the display's function setting and confirm the setup parameter.

⑨ Power button

Turn on the power: Press the button one second or longer time

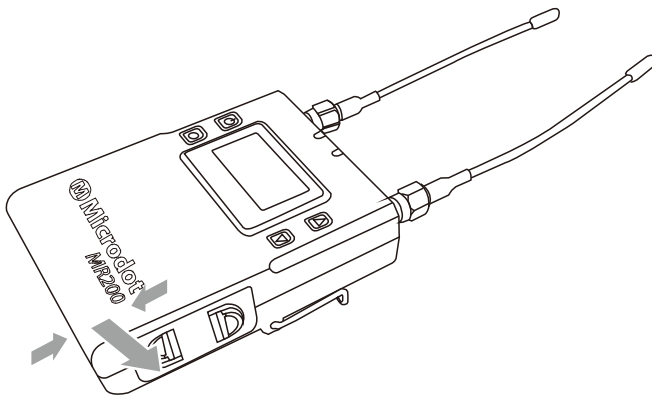
Turn off the power: Press the button until the indicator is off.

⑩ Phones(monitor) connector

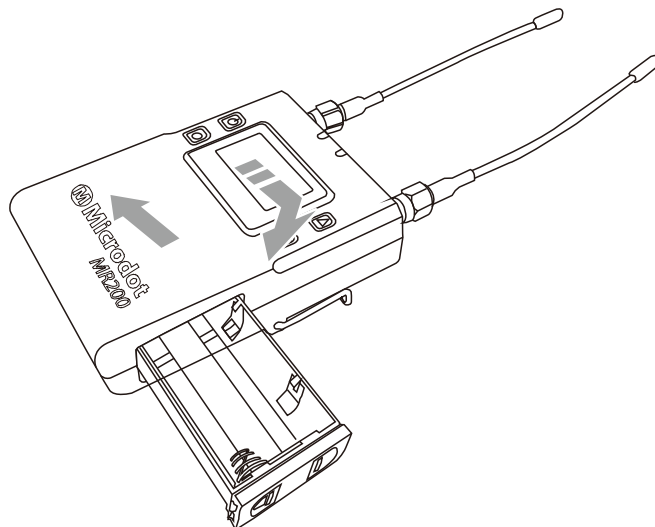
Connect with the ear phone to monitor the audio output.

Dismounting the battery box

1, Slide two button of the battery box inwardly(As the picture),pull out the battery box.



2.Follow the direction of \oplus \ominus ,put two new AA batteries and close the box.



Make sure the battery box is locked.

3.Operation

The setting of digital wireless transmitter

Turn on: Press the POWER button of the transmitter one second at least to turn on the power.

1.Change the audio input level(IN LEVEL)

Set the input level according to the audio input equipment, can be switched between MIC & LINE by pressing the setup button. Enter the "IN LEVEL" menu, long press the menu setting button, display the "MIC", and choose the audio level as needed by the ▲ or ▼ button, then press the menu setting button to save.

2.Setting the frequency of channel(Channel setting)

Press the menu setting button, enter the "Channel setting" by the ▲ or ▼ button. long press the menu setting button, display the "CH02", then choose the channel frequency which you need by the ▲ or ▼ button, then press the menu setting to save.

3.Setting the frequency of group(Group setting)

Press the menu setting button, enter the "Group setting" by the ▲ or ▼ button, long press the menu setting button, display the " Group A ", then choose the group frequency which you need by the ▲ or ▼ button, then press the menu setting to save.

4.RF POWER setting

Press the menu setting button, enter the "RF POWER setting" by the ▲ or ▼ button..long press the menu setting button, display the "High", then choose the RF POWER which you need by the ▲ or ▼ button, then press the menu setting to save.

5.Restore factory setting(Restore)

Press the menu setting button, enter the "Restore" by the ▲ or ▼ button. long press the menu setting button, the system will restore to factory setting automatically.

6.Product system version

V1.0 Rel.1BF297

7.Product serial number(SN)

UTX-PX 133EFABE2

8.OUTPUT MUTE(MUTE)

It will be muted when press the POWER/MUTE button during the usage, the audio indicator will turn red, then the receiver will not transfer the audio. Press the POWER/MUTE button again, the audio indicator will change to green to recover the audio output.

The setting of digital wireless receiver

Turn on: Press the POWER button of the transmitter one second at least to turn on the power.

1. Output mode

Press the menu setting button, then enter the "OUTPUT MODE" menu, long press the menu setting button, display the "STEREO", and choose the audio output mode which you need by the ▲ or ▼ button, then press the menu setting button to save.

2. Setting the frequency of channel (Group A setting)

Press the menu setting button, enter the "Group A setting" by the ▲ or ▼ button. long press the menu setting button, display the "CH00 638.000MHz", then choose the group frequency which you need by the ▲ or ▼ button, then press the menu setting to save.

3. Group A Setting Volume

Press the menu setting button, enter the "Group A Setting Volume" by the ▲ or ▼ button, long press the menu setting button, display the "Volume31", then choose the volume which you need by the ▲ or ▼ button, then press the menu setting to save.

4. Group A IR setting (Match with TX)

Press the menu setting button, enter the "Match with TX" by the ▲ or ▼ button. long press the menu setting button, display the "Matching", then put the RF/IR indicator of the receiver to near the "Audio/IR" indicator of the transmitter so that the transmitter can receive the new frequency signal and to change.

5. Group B frequency setting

Press the menu setting button, enter the "Group B setting" by the ▲ or ▼ button. long press the menu setting button, display the "CH00 668.000MHz", then choose the group frequency which you need by the ▲ or ▼ button, then press the menu setting to save.

6. Group B Setting Volume

Press the menu setting button, enter the "Group B Setting Volume" by the ▲ or ▼ button, long press the menu setting button, display the "Volume31", then choose the volume which you need by the ▲ or ▼ button, then press the menu setting to save.

7. Group B IR setting Match with TX

Press the menu setting button, enter the "Group B setting Match with TX" by the ▲ or ▼ button. long press the menu setting button, display the "Matching", then put the RF/IR indicator of the receiver to near the "Audio/IR" indicator of the transmitter so that the transmitter can receive the new frequency signal and to change.

8.Restore factory setting(Restore)

Press the menu setting button,enter the “Restore“by the ▲ or ▼ button.long press the menu setting button,the system will restore to factory setting automatically.

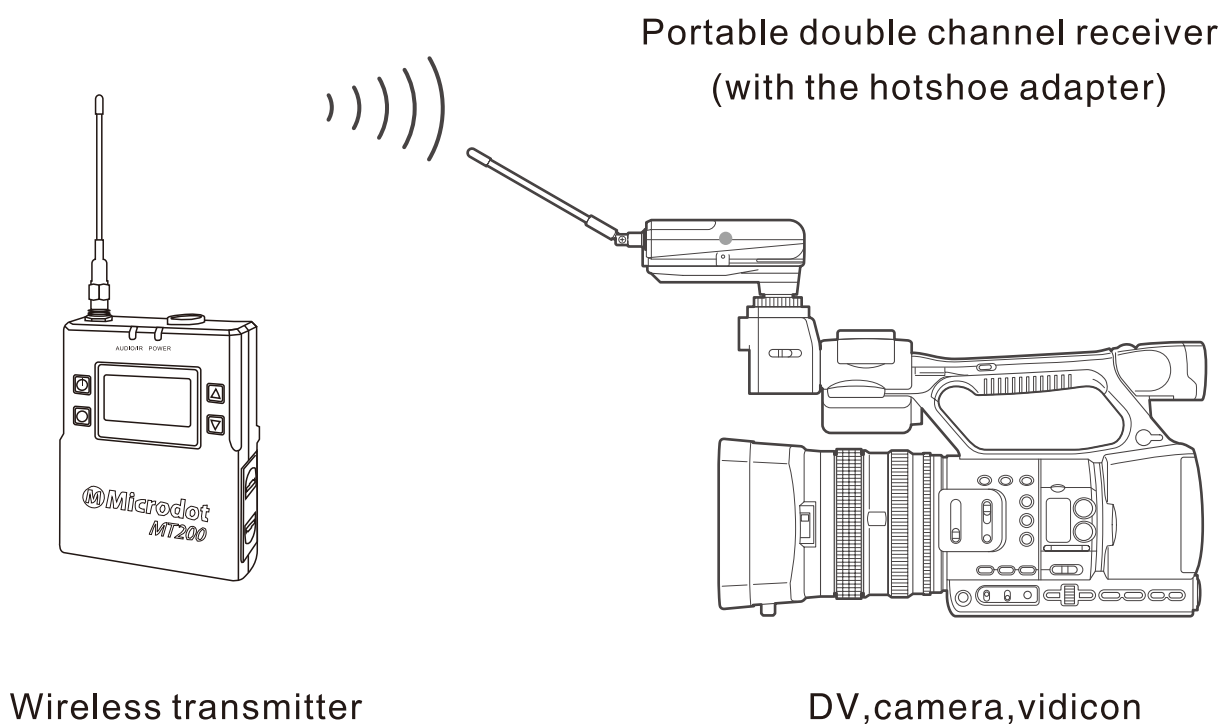
9.Product system version

V1.0 Rel.1F1943

10.Product serial number(SN)

UTX-PX 133EF5FE2

4.Connection diagram



5. Specification

Transmitter

Oscillation type:	crystal-controlled PLL synthesized
Carrier frequency:	A:638.000MHz-667.700MHz B:668.000MHz-697.700MHz
T.H.D:	$\leq 9\%$ (-60dbv,1KHz input)
SNR:	$\geq 60\text{db}$
Power :	3.0V (Two AA battery)
Frequency Response:	40Hz-18KHz
Working temperature:	0-50
Antenna:	Disassemble SMA antenna

Receiver

Oscillation type:	Crystal-controlled PLL synthesized
Carrier frequency:	A:638.000MHz-667.700MHz B:668.000MHz-697.700MHz
Audio output port:	3.5mm
Ear phone output level:	150Mv/16 Ω
SNR:	$\geq 60\text{db}$
Frequency Response:	40Hz-18KHz
Power :	3.0V (Two AA battery)
Working temperature:	0-50
Antenna:	Disassemble SMA antenna

Earphone

Type	Electret Condenser, Mono, In-Ear
Output Level	-35dB
Frequency response	20Hz - 20kHz
Directivity	Omnidirectional
Connector	Gold-Plated 3-Conductor 3.5mm Mono Mini Plug
Cable	1.2 m (4.7 feet) long
Weight	Approx. 12 g (0.4 oz)
Operating Voltage	5 V

Lavalier microphone

Type	Electret condenser microphone
Sound Field	Mono
Frequency response	50 Hz to 16,000 Hz
Directivity	Uni-directional
Sensitivity	-46.0 ±3 dB (0 dB =1 V/Pa, at 1 kHz)
Maximum SPL	130 dB SPL Peak
Output Connectors	1/8" / 3.5 mm TRS Male Unbalanced (Lockable)
Cable	2.3 mm dia., 2-conductor shielded cable, 1 m (3.9 feet) long
Dimensions	φ 12 × 35 mm (0.5 x 1.4") (with cable and connector)
Weight	Approx. 20 g (0.7 oz)
Operating Voltage	5 V

Packaging Info

Package Weight	1100g (2.43 lb)
Box Dimensions (LxWxH)	290 x 230 x 83mm (11.42 x 9.06 x 3.27")