



BT201 Series Microphones Owners Manual



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Safety Precautions

Detailed safety precautions:

Please read all safety precautions and operating instructions before attempting to operate the unit. Keep all safety precautions and operating instructions for future reference.

Water and moisture:

Condenser microphones are extremely moisture-sensitive. Never use your microphone in close proximity to water (e.g. bath tubs, wash basins, sinks, washing machines, pools, etc.)

Damage:

Take care not to drop your microphone as this can lead to severe damage. JZ Microphones assumes no liability for any damage caused by the user.

Service and care:

After each use, remove the microphone from its mount and wipe the microphone down with a soft cloth and place it back into its protective casing (included with the microphone). **Never open the microphone as it will void warranty!** Refer all servicing to qualified and manufacturer's appointed personnel. Servicing is required when the microphone is damaged in any way, such as liquid has been spilled or objects have been fallen into the microphone, the microphone has been exposed to rain or moisture, microphone does not operate normally or has been dropped. Never remove grille covers in order to service microphone capsule. The capsule system does not contain any user serviceable parts.

Usage:

Only use attachments or accessories specified by the manufacturer. Check if packing contains all of the items listed. If any of these items are missing, contact your nearest JZ Microphones dealer or JZ Microphones directly.

Always turn down the levels (means no sound) of the microphone preamp or console while connecting or disconnecting the microphone to avoid possible damage to your speakers or headphones and your hearing.

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BT201 series microphones set up

1. Firmly hold the wooden case and use your thumbs to open it. Chose the desired capsule and mount it on the microphone body. (see pictures)



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BT201 series microphones set up

2. When you have selected the desired BT201 microphone you are ready to use the microphone holder or shock-mount to mount the microphone on the microphone stand. JZ Microphones offers optional shock-mount JZ|7 and holder JZ|HLDR for your BT201 microphones (see pictures)



BT201 microphone on standard microphone holder JZ|HLDR



BT201 microphone on JZ microphone shock-mount JZ|7

Tip: We highly recommend to use JZ|7 shock-mount together with your BT201 microphones as JZ|7 has extremely effective damping characteristics allowing you to maximally reduce any unwanted sounds appearing in your mix together with high quality signal from your BT201 microphone.

Tip: We recommend to use -20dB BT201 capsule (BT|P) for loud recording environment.

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All BT201 series microphones come in a wooden case

BT201 | 1 series packing includes:

- 1 x Wooden case
- 1 x BT201 microphone body
- 1 x Cardioid capsule
- 1 x Users Manual
- 1 x Warranty sheet



BT201 | 3 series packing includes:

- 1 x Wooden case
- 1 x BT201 microphone body
- 1 x Cardioid capsule
- 1 x Open cardioid capsule
- 1 x Open cardioid -20dB capsule
- 1 x Users Manual
- 1 x Warranty sheet



BT201 | 3S series packing includes:

- 1 x Wooden case
- 2 x BT201 microphone body
- 2 x Cardioid capsule
- 2 x Open cardioid capsule
- 2 x Open cardioid -20dB capsule
- 1 x Users Manual
- 1 x Warranty sheet



Installation:

Chose desired capsule for multi-capsule BT201 model (BT201|3 or BT201|3S) and apply it very carefully to the BT201 body, try not to touch directly the contacts to avoid any type of dirt getting between the contacts.

We recommend to use JZ Microphones BT201 compatible stand holders or shock-mounts to have best performance and reliability. Ask your nearest dealer for JZ Microphones accessories compatible with BT201 series products.

Any type of microphone holder that fits with the body diameter (24mm) of BT201 series microphones can be used to mount the microphone on the microphone stand. Make sure that microphone is mounted safe from falling out of the any microphone holder.

Once you have set up the BT201 microphone on the mic stand, experiment with the angle of the microphone to the sound source as it influences the sound of your recording; therefore, experiment with different positions until you achieve the desired sound.

As all our microphones are extremely high quality, we recommend to use a highest quality balanced XLR microphone cables in connection with highest quality microphone pre-amps to grant cleanest signal path from the sound source to your recording equipment.

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The BT201 series microphone models

The BT201 series includes 3 models with various polar pattern options

BT201 | 1

Small diaphragm (13mm) condenser microphone
Class A discrete electronics
Cardioid polar pattern
5 year warranty

BT201 | 3

Small diaphragm (13mm) condenser microphone
Class A discrete electronics.
Cardioid, open cardioid, open cardioid with
-20 dB PAD polar patterns
5 year warranty

BT201 | 3S

Matched pair of small diaphragm (13mm) condenser microphones
Class A discrete electronics.
Cardioid, open cardioid, open cardioid with
-20 dB PAD polar patterns
5 year warranty

All BT201 series microphones operate on 48 volt phantom power.

The BT201 series compatible accessories

BT | H

Optional open cardioid polar pattern head for BT201 series microphones

BT | P

Optional -20 dB open cardioid polar pattern head for BT201 series microphones

BT | O

Optional omni polar pattern head for BT201 series microphones

JZI | 7

Optional shock-mount for BT201 and BT301 series microphones. JZI|7 has amazing damping characteristics. Highly recommended for any pencil type microphone which has similar thickness (24mm) with BT series microphones. Shock-mount can be attached to any standard microphone stand.

JZ | HLDR

Optional stand-holder for BT201 and BT301 series microphones. Holder can be attached to any standard microphone stand.

Tip: When choosing any BT201 accessory, feel free to ask any advice from your nearest JZ Microphones dealer or contact JZ Microphones directly.

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The BT201 series microphone important features

BT201 series microphones unique innovation is magnetically changeable capsules for various polar pattern options plus it can be done extremely fast.

BT201 series microphones have special designed shape to achieve improved directivity of polar patterns, depending on which is used.

BT201 series microphones have a separate -20dB changeable capsule instead of built-in pad switch, and it gives an option to lower the signal level, keeping the frequency response unaffected without losing low and high frequencies.

Important is that in most cases the microphone can handle high signal levels but the microphone preamplifiers can't. That is why we care about your preamplifier and made a pad option for that reason.

Electronics

All JZ Microphones products use Class A discrete electronics, where all components are tested and measured for a maximum performance and grants to the audio signal cleanest path and extremely low self noise properties before any recording gear. All components are **hand soldered** by our engineers to avoid overheating of selected parts. While soldering the components, overheating can ruin specifications of very carefully selected electronic part.

BT201 series microphones are tube-less, therefore electronic circuit is designed to work perfectly without tube as modern electronics is developed to manage the signal path without it.

BT201 series microphones are transformer-less, therefore electronics are designed to have maximum performance without the transformer.

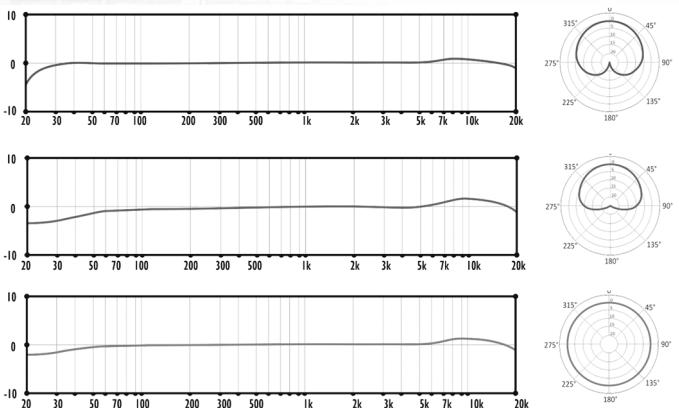
Electronic circuit design and component selection for every JZ Microphones product is done according to the capsule properties and its special needs to grant the best possible performance and extremely low self noise before any gear in the recording chain.

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Technical Specifications BT201

Transducer type	electrostatic
Operating principal	pressure gradient
Diaphragms active diameter	13 mm
Frequency range	20 Hz to 20 kHz
Polar pattern	Cardioid, open cardioid, open cardioid -20dB, omni
Pad switch	-20dB (BT P capsule)
Output impedance	50 ohms
Rated load impedance	>1000 ohms
Suggested load impedance	>250 ohms
Sensitivity at 1000 Hz into 1000 ohms load	11 mV/Pa
S/N Ratio CCIR 468-3 weighted	71 dB
S/N Ratio DIN/IEC 651 A-weighted	82 db-A
Equivalent noise level DIN/IEC A-weighted	12 dB-A
Maximum SPL for 0.5% THD at 1000 ohm load	140 dB
Dynamic range of the microphone preamplifier	128 db
Phantom powering voltage on pins 2 & 3 of XLR	+48 V (+/-4 V)
Current consumption	2 mA
Output connector	3-pin XLR male, gold plated contacts
Signal polarity	positive toward pressure on a frontal diaphragm produces positive polarity voltage on XLR pin #2 relatively to pin #3
Dimensions	161,5 mm x 24 mm
Weight	140 g together with magnetically attached head

BT201 cardioid, open cardioid, omni frequency response charts



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