



BT301 Series Microphones

Owners Manual



www.jzmic.com
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BT301 Series Owners Manual

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 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.

Never try to remove the head of your BT301 microphone. It is not removable!

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BT301 Package includes:

Wooden case

BT301 microphone

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Warranty Sheet



JZ Microphones offers optional shock-mount JZI|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 JZI|7

Tip: We highly recommend to use JZI|7 shockmount together with your BT-301 microphones as JZI|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.

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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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Transducer type	electrostatic
Operating principal	pressure gradient
Diaphragms active diameter	21 mm
Frequency range	20 Hz to 20 kHz
Polar pattern	Cardioid,
Output impedance	50 ohms
Rated load impedance	1000 ohms
Suggested load impedance	>500 ohms
Sensitivity at 1000 Hz into 1000 ohms load	33 mV/Pa
S/N Ratio CCIR 468-3 weighted	76 dB
S/N Ratio DIN/IEC 651 A-weighted	87 db-A
Equivalent noise level DIN/IEC A-weighted	5,5 dB-A
Maximum SPL for 0.5% THD at 1000 ohm load	133,5 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

BT-301 cardioid frequency response charts

