



**JZ MICROPHONES**

**BB29 Signature Series  
Owner's 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.

## 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 pre-amp or console while connecting or disconnecting the microphone to avoid possible damage to your speakers or headphones.

## The BB29 microphone set up

1. Take the microphone out of the box.
2. You can mount the BB29 microphone directly to the stand or use an external shockmount BBSM. The external shockmount is not included in the package and can be purchased separately.
3. Before using the mic ensure that microphone sits safe on the shock-mount or stand!

**NOTE: External shock-mount gives you the opportunity to position and angle your microphone to the sound source and kills all unwanted vibrations from the floor and stand.**

### **BB29 packing includes:**

- 1 x Cardboard box with layer of isolation
- 1 x BB29 microphone
- 1 x Warranty sheet

**BB29 microphone operates on 48 volt phantom power.**

## The Golden Drop Capsule (GDC)

The soul of each and every BB29 microphone is the unique Golden Drop Capsule (GDC) technology, created by JZ Microphones' founder and lead designer Juris Zarins.

Using this innovative technology, the capsule's diaphragm is lighter; therefore, it moves and gets to its default position faster than the same capsule's diaphragm without Golden Drop technology. It gives more clarity, precision, fewer colorations and distortions in frequency response.

This method of capsule-making has been unique to JZ Microphones and since the beginning and will remain a closely guarded secret.

GDC technology also allows you to create a matched pair using any two of the BB29 microphones that have already been crafted or will be produced in future.

## 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.

BB29 microphone is tube-less at this point, therefore electronic circuit is designed to work perfectly without tube as modern electronics is developed to manage the signal path without it.

BB29 is a cardioid only, large diaphragm capacitor mic with a transformer coupled output. It's designed to stand out at front of the mix.

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.

## Technical Specifications

- › **Transducer Type** *electrostatic*
- › **Operating principle** *pressure gradient*
- › **Polar Patterns** *Cardioid*
- › **Diaphragm's active diameter** *24 mm (1")*
- › **Frequency Response** *20 Hz - 20 kHz*
- › **Sensitivity at 1 kHz** *20 mV/Pa*
- › **Output Impedance** *150Ω*
- › **Rate Load Impedance** *>1000Ω*
- › **Maximum SPL** *140 dB SPL (2.5kΩ, 0.5% THD)*
- › **S/N Ratio** *86 dB-A*
- › **Noise Level** *9 dB-A*
- › **Dynamic Range** *131 dB*
- › **Power Requirement** *+ 48V DC Phantom Power*
- › **Weight** *330 g*
- › **Dimensions** *205 mm x 63 mm x 30 mm*
- › **Current consumption** *<2 mA*
- › **Output connector** *3-pin XLR male*

# Frequency response graphs

