



## Vintage Series Microphones Owners Manual



[www.jzmic.com](http://www.jzmic.com)  
2010

# Vintage Series Microphones 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'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:

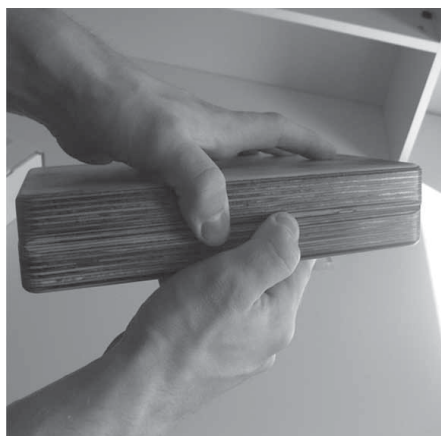
Only use attachments or accessories specified by the manufacturer. Check if packing contains all of the items listed. If any of these items are missing, contact your nearest JZ Microphones dealer or JZ Microphones directly.

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 and your hearing.

# Vintage Series Microphones Owners Manual

## Vintage series microphones set up

1. Firmly hold the wooden case and use your thumbs to open it.  
(see pictures)



2. Remove the shipping screw from the back of your Vintage series microphone. To unscrew the shipping screw use appropriate screw driver. When it is done you can mount the microphone on the microphone stand.





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## Vintage series microphones set up

3. To position your Vintage series microphones release the swivel mount by turning the fixing ring counterclockwise, to fix the microphone position, turn the fixing ring clockwise. (see picture)



4. If you can't release the fixing ring, hold the swivel mount and gently turn the microphone counterclockwise. (see picture)



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All Vintage series microphones come in a wooden case.



## Vintage series packing includes:

- 1 x Wooden case
- 1 x Vintage series microphone
- 1 x Owners Manual
- 1 x Warranty sheet

## Installation:

Before using Vintage series microphone very carefully remove the shipping screw located at the back of your Vintage microphone otherwise it will not function properly.

There is removable adapter in microphone's swivel mount which lets you mount it on mic stands with either metric (Europe) or imperial-gauge threads (North America). Make sure that your microphone is standing safe on the shock-mount.

The angle of the microphone to the sound source 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 preamps to grant cleanest signal path from the sound source to your recording equipment.

# Vintage Series Microphones Owners Manual

## Vintage series microphone models

The Vintage series includes 4 microphone models with different capsule designs which gives you 4 unique sounds.

### **V47**

Large diaphragm condenser microphone  
GDC47 capsule  
Class A discrete electronics  
Fixed cardioid polar pattern  
5 year warranty

### **V67**

Large diaphragm condenser microphone  
GDC67 capsule  
Class A discrete electronics  
Fixed cardioid polar pattern  
5 year warranty

### **V12**

Large diaphragm condenser microphone  
GDC12 capsule  
Class A discrete electronics  
Fixed cardioid polar pattern  
5 year warranty

### **V11**

Large diaphragm condenser microphones  
GDC11  
Class A discrete electronics  
Fixed cardioid polar pattern  
Included shock mounted holder  
5 year warranty

**All Vintage series microphones operate on 48 volt phantom power.**



# Vintage Series Microphones Owners Manual

## The Golden Drop Capsule (GDC)

One of the most important components in every microphone is the capsule, its design and how it transforms the reproduced sound in to electric energy, giving a soul to your recording.

Golden Drop technology is Innovative capsules diaphragm sputtering method, where a lot of tiny and different sized golden dots are systematically sputtered on the capsules diaphragm. It is invention of Juris Zarins and is applied to most of JZ Microphones products.

## Advantages of Golden Drop technology

With applied Golden Drop technology, capsules diaphragm is lighter therefore it moves and gets to its default position faster than the same capsules diaphragm without Golden Drop technology, imagine handling the truck compared to sports car, in other words lighter diaphragm can detect and deliver much faster changes in musical content.

It gives more clarity, precision, less colorations and distortions in frequency response. When applied, Golden Drop technology can improve the sonic characteristics of any type of ordinary capsule giving more realistic picture of your recording.

## Vintage Series microphones use 4 types of GDC

### 1. V47 Double large diaphragm 25 mm GDC (GDC47)

GDC47 is double large diaphragm Golden Drop microphone capsule. GDC47 is applied only to our fixed cardioid V47 microphones.

### 2. V67 Double large diaphragm 25 mm GDC (GDC67)

GDC67 is double large diaphragm Golden Drop microphone capsule. GDC67 is applied only to our fixed cardioid V67 microphones.

### 3. V12 Double large diaphragm 25 mm GDC (GDC12)

GDC12 is double large diaphragm Golden Drop microphone capsule. GDC12 is applied only to our fixed cardioid V12 microphones.

### 4. V11 Double large diaphragm 27 mm GDC (GDC11)

GDC11 is double large diaphragm Golden Drop microphone capsule. GDC11 is applied only to our fixed cardioid V11 microphones.

Innovative Vintage GDC`s were developed for our Vintage series microphones to deliver the captured sound field from Vintage type capsules in more accurate way.

# Vintage Series Microphones Owners Manual

## Electronics

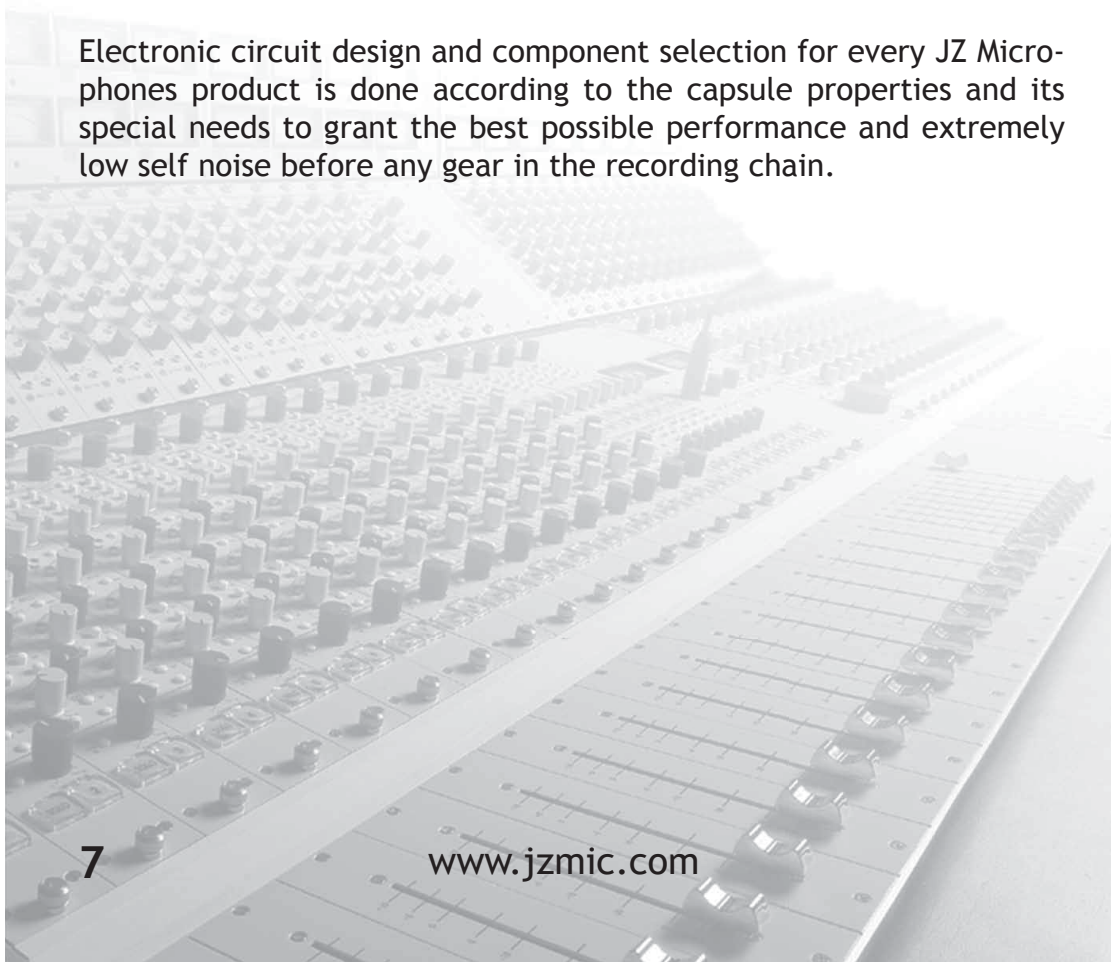
All JZ Microphones products use Class A discrete electronics, where all components are tested and measured for a maximum performance and grants to the audio signal cleanest path and extremely low self noise properties before any recording gear. All components are hand soldered by our engineers to avoid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

Vintage series microphones are 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.

Vintage series microphones are transformer-less, therefore electronics are designed to have maximum performance with minimum noise without the transformer.

Vintage series microphones share basically the same electronic parts. Every Vintage series microphone use component selection with tolerance 1.5 % in differences between them (only 35% of 1000 parts can pass 1.5% tolerance test)

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.





# Vintage Series Microphones Owners Manual

## Technical Specifications

### V47, V67 & V12 series microphones

|   |   |
|---|---|
| Transducer type                               | electrostatic   |
| Operating principal                           | pressure gradient   |
| Diaphragms active diameter                    | 25 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    | 22 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     | 6 dB-A  |
| Maximum SPL for 0.5% THD at 1000 ohm load     | 134 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 |

### V11 series microphones

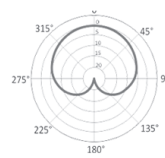
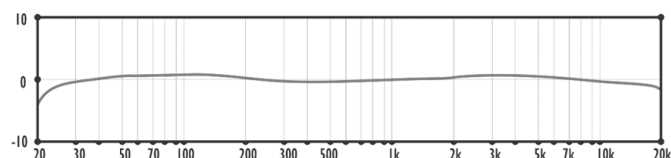
|   |   |
|---|---|
| Transducer type                               | electrostatic   |
| Operating principal                           | pressure gradient   |
| Diaphragms active diameter                    | 27 mm   |
| Frequency range                               | 20 Hz to 20 kHz   |
| Polar pattern                                 | Cardioid  |
| Output impedance                              | 50 ohms   |
| Rated load impedance                          | 1000 ohms   |
| Suggested load impedance                      | >500 ohms   |
| Sensitivity at 1000 Hz into 1000 ohms load    | 22 mV/Pa  |
| S/N Ratio CCIR 468-3 weighted                 | 76,5 dB   |
| S/N Ratio DIN/IEC 651 A-weighted              | 87,5 dB-A   |
| Equivalent noise level DIN/IEC A-weighted     | 6,5 dB-A  |
| Maximum SPL for 0.5% THD at 1000 ohm load     | 134 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 |



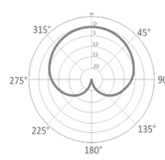
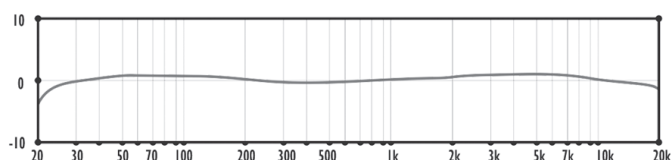
## Vintage Series Microphones Owners Manual

### Frequency response graphs

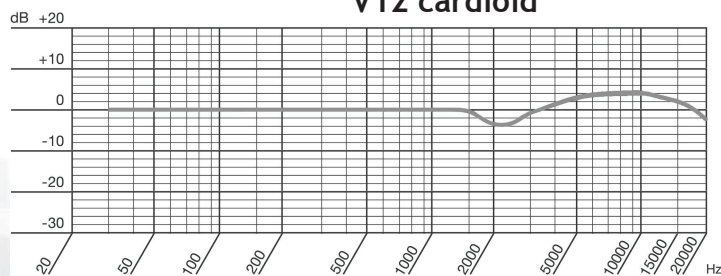
**V47 cardioid**



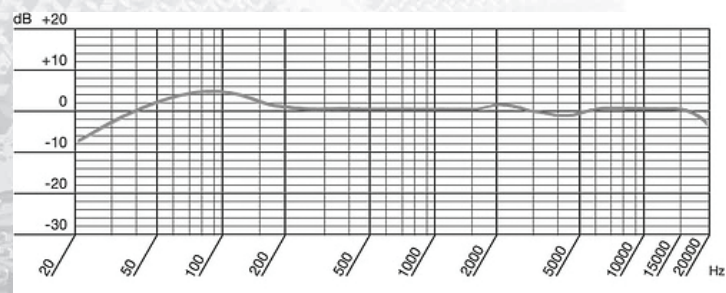
**V67 cardioid**



**V12 cardioid**



**V11 cardioid**



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