

# Mojave Audio

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## MA-100 Tube Condenser Microphone

The MA-100 is a small diaphragm, vacuum tube condenser microphone with interchangeable cardioid and omnidirectional capsules. The latest in a lineage of successful microphone designs by David Royer, the MA-100's cathode follower circuitry provides ample headroom for high SPL applications such as drums and guitar amplifiers. It also excels at the more common applications for small diaphragm, vacuum tube condenser microphones such as acoustic instruments, cymbals, stereo pairs and pianos.

Featuring hand selected, 3-micron cardioid and omni capsules, a high quality Jensen audio transformer and a military-grade JAN 5840 vacuum tube, the MA-100 performs at a level reminiscent of some of the best loved classic small diaphragm tube condenser microphones. The MA-100's power supply can be set for either 110-120 VAC or 220-240 VAC via an external switch. Each MA-100 microphone, power supply and cable set is burned in for 24 hours, carefully tested and evaluated, then packaged in a protective carrying case.

### The Mojave Audio Story

David Royer started Mojave Audio in 1985 in the garage of his house. The location was Fullerton, California, and Mojave Audio was a one-man, custom pro audio gear shop. David is best known for his ribbon microphone designs with Royer Labs, but he originally started out designing and building vacuum tube microphones, mic pre's and compressors for engineers in the Los Angeles area.

Since the mid 1990's, David's custom Mojave products have been used on a number of well-known recordings and have achieved legendary status among a small circle of high-end engineers. With the launching of Mojave Audio, we are able to bring David's non-ribbon designs to the world.

### Features:

- Interchangeable cardioid and omnidirectional capsules
- Hand-selected 3-micron capsules
- Jensen audio transformer
- Military grade NOS JAN 5840 vacuum tube
- External switchable power supply voltage
- Ultra clean signal path
- High SPL handling capability

### Recommended applications:

- Acoustic Instruments
- Drums
- Guitar Amplifiers
- Piano
- Stereo Pairs (X/Y, MS, Decca Tree, Blumlein, etc.)
- Orchestral Recording
- Choral Recording
- Voice-overs and Broadcast
- Percussion



Actual size

# MA-100

## TECHNICAL DATA

<b>Capsules:</b>	Interchangeable Cardioid and Omnidirectional
<b>Diaphragm:</b>	.8" (20.5 mm) diameter
<b>Diaphragm thickness:</b>	3-micron
<b>Frequency Response:</b>	30 Hz - 18 kHz +/- 2.5 dB
<b>Sensitivity:</b>	-37 dB re.1V/pa +/- 1.5 dB
<b>Maximum SPL:</b>	140 dB
<b>Distortion:</b>	head amp only, not to exceed .4% @ 140 dB SPL
<b>Self Noise:</b>	14 dB nominal, not to exceed 16 dB (A weighted)
<b>Impedance:</b>	450 ohms, transformer balanced (Jensen)
<b>Vacuum Tube:</b>	NOS JAN 5840 pentode wired as triode,
<b>Power Requirements:</b>	100-120 VAC; 220-240 VAC, 50 or 60 Hz. Power consumption approx. 10 watts.

### DIMENSIONS AND WEIGHT:

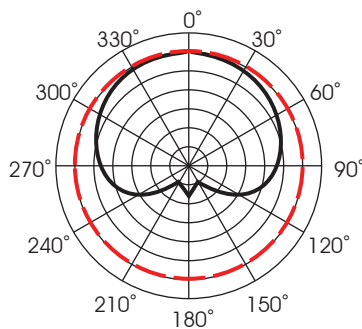
Carrying case with microphone, power supply, shock mount and cables: 7 lbs.

Carrying Case: 14"x11"x4"

Microphone: 5.5"x.75", weight 4.5 oz



## Frequency Response and Polar Pattern



Omni - Red  
Cardioid - Black

