



## MA-300 Condenser Microphone

The MA-300 is a multi-pattern large diaphragm, vacuum tube condenser microphone. Based upon the widely accepted MA-200 designed by David Royer, the MA-300 adds a continuously variable pickup pattern selector, 15dB pad and a switchable bass roll-off. The MA-300 gives warm, full-bodied reproductions of vocals and instruments, with none of the shrillness and high frequency distortion artifacts that are often encountered with modern condenser microphones.

Utilizing hand-selected, gold-sputtered, dual-diaphragm 3-micron capsules, high-quality Jensen audio transformers and military-grade JAN 5840 vacuum tubes, the MA-300 performs at a level reminiscent of some of the best loved classic condenser microphones. The MA-300 power supply can be set for 115V and 230V, 50 or 60 Hz, through an internal switch (100V is also available). Each MA-300 microphone, power supply and cable set is burned in for 24 hours, carefully tested and evaluated, then packaged in its protective case-within-a-case.

### Features:

- Remotely controlled, continuously variable polar pattern selector
- Switchable 15dB pad
- Switchable Bass Roll-off
- Hand-selected 3-micron double diaphragm capsule
- Jensen audio transformer
- Military grade JAN 5840 vacuum tube
- Internal switchable power supply voltage
- Ultra clean signal path

### Recommended Applications:

- Vocals
- Broadcast
- Acoustic Instruments
- Piano
- Drum Overheads, Drum Rooms
- Orchestral Recording
- Choral Recording
- Voice-overs



## TECHNICAL DATA

|                               |   |
|-------------------------------|---|
| <b>TRANSDUCER TYPE:</b>       | Externally polarized, pressure gradient capacitor - dual diaphragm  |
| <b>DIAPHRAGM:</b>             | 1-inch diameter, gold sputtered   |
| <b>DIAPHRAGM THICKNESS:</b>   | 3 microns   |
| <b>POLAR PATTERN:</b>         | Continuously variable from omnidirectional to figure-eight.   |
| <b>FREQUENCY RESPONSE:</b>    | 20 Hz to 20 KHZ, $\pm 3$ dB at "flat" setting of bass cut switch. Bass cut switch provides 6 dB per octave attenuation below 100 Hertz in "cut" setting |
| <b>SENSITIVITY:</b>           | -37dB, re. 1V/pa  |
| <b>MAXIMUM SPL:</b>           | 120 dB with pad off, 135 dB with pad on.  |
| <b>DISTORTION:</b>            | < 1% @ 117 dB SPL, < 3% @ 125 dB SPL with pad off<br>< 1% @ 132 dB SPL, < 3% @ 140 dB SPL with pad on   |
| <b>SELF NOISE:</b>            | 14dB nominal, not to exceed 16dB (A weighted)   |
| <b>PAD:</b>                   | 15 dB   |
| <b>BASS CUT:</b>              | 6 dB per octave below 100 hertz.  |
| <b>DIMENSIONS AND WEIGHT:</b> |   |

Carrying case with microphone, power supply, shock mount and cables: 13 lbs. (5.9Kg)

Microphone: 7 5/8" X 2" (194mm x 51mm), 1 lb. (0.45Kg)



## Frequency Response and Polar Pattern

