

MANN microphones

The Mann microphone company was conceived in 1992 by a group of audio engineers and technicians in order to create a small range of special purpose tube microphones not commercially available at that time.

An intimate knowledge of vacuum tube characteristics and idiosyncratic behavior between tubes and audio transformers led to a number of innovative designs built as one off models for particular projects.

The MT91 has been widely praised not only for its sonic quality but also its versatility. Stringed instruments, female vocals and the subtleties of adding soloists to an orchestral recording without distracting harmonic aberrations, are made an uncomplicated activity.



photo by Adam Boon



microphones

M-11 general-purpose condenser microphone

Robust mechanical construction coupled with classic broadcast condenser design makes this uniquely versatile general purpose condenser microphone a useful tool for a wide variety of studio and live applications.

Not restricted to the studio or delicate broadcast environments, the M11 will reproduce exceptional results for many hard to amplify acoustic instruments, choral groups and even spoken word lectern applications.

features

The M11 is a high output 48 volt powered full condenser. It is endowed with enough gain to duplicate the most subtle low output sound sources, yet its low noise transformerless pre amp module can handle input transients well over 132 dB.

The interchangeable M11 capsule has been designed with rising response in the upper harmonic areas and will deliver exceptional clarity to spoken word and stringed instrumentation. Rich bass response is a key feature of the M11 sound, a hard act to accomplish in a small format condenser.

The off axis rejection characteristics makes the M11 one of the few condensers suited to live music applications where high level foldback is required. The smooth and consistent frequency response is also a great benefit when multiple

microphones are required for high SPL sound reinforcement applications. High levels before feedback are possible yet the cardioid pattern allows a generous pick up area for multiple source situations.

Like all Mann condenser capsules, Consistent frequency response from sample to sample is at the forefront of industry standards. Lab tests demonstrate frequency response variations between samples are minute, so uniformity is guaranteed.

optional: M-PF – Popper Stopper

- Transducer Type: condenser pressure type
- Frequency Response: 30–20,000HZ
- Polar Pattern: cardioid
- Sensitivity at 1,000 Hz: 10 mV/Pa -38dB
- SPL for 1% THD: 128dB
- S/N Ratio (A-weighted): 73dB
- Electrical Impedance: 250
- Dynamic Range: 24-130dB
- Power requirement: 9-52 Vdc
- Connector: XLR 3-pin male connector
- Finish: black matte finish
- Weight: 125 g



M-21 large-format condenser microphone

When it comes to designing a large-format condenser microphone, a good result represents a thoughtful balance of many potentially conflicting issues. Questions such as uniform frequency response between samples, flat response as opposed to sonic color and reliable performance against price were all foremost in the minds of the designers of the Mann M21.

To give the M21 the harmonic edge, the Mann engineers reintroduced an old and almost forgotten technology from the earliest days of multi track recording; the audio transformer. This weighty device was replaced in the late 60's by the FET transistor. It was cheaper to build and helped to make the circuits smaller. However a correctly manufactured audio transformer based input stage has a desirable effect on the upper even order harmonic register. The result is sonically satisfying tonal characteristics that are particularly suited to the present day digital recording environment.

Features

Structural strength was an important priority. Whether in the studio or high stress environments such as outside broadcasting, the M21 is built to a standard of robustness normally associated with products destined for the road. However the high order harmonic sensitivity of the capsule will add uncoloured definition to percussion and stringed acoustic instruments, massed vocal groups and even spoken dialogue applications.

The 48 volt powered M21 capsule is a pressure gradient transducers that has been designed to minimise resonance within the diaphragm. Rich bass response is a key feature of the M21 sound, but this is not at the sacrifice of defined mid-range. Vocal program is accurate with generous transient capability thanks to the latest in polyester diaphragm technology.

optional: M-PF – Popper Stopper



- Transducer Type: condenser pressure type
- Frequency Response: 20–20,000HZ
- Polar Pattern: cardioid
- Sensitivity at 1,000 Hz: 10 mV/Pa -36dB
- SPL for 1% THD: 130dB
- S/N Ratio (A-weighted): 78dB
- Electrical Impedance: 200
- Dynamic Range: 22-132dB
- Power requirement: 9-52 Vdc
- Connector: XLR 3-pin male connector
- Finish: black matte finish
- Weight: 500 g

