

PRODUCT  
**MDR 10**

DESCRIPTION  
**MIXER**

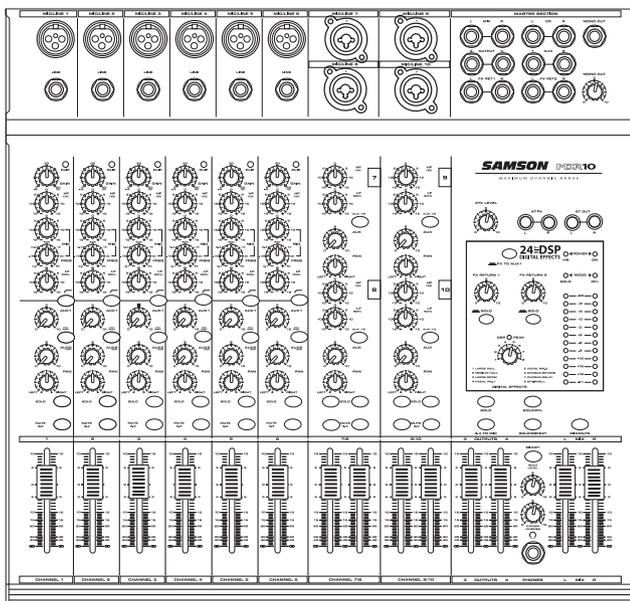
SERIES  
**MDR**

CATEGORY  
**MIXERS**

TYPE:  
MIXERS



FRONT PANEL



BACK PANEL



**GENERAL DESCRIPTION**

The MDR10 is a ten-channel mixer, with ten low noise microphone pre-amps, four output buses and a built-in 24 BIT DSP effects processor. The MDR10 features six mono Mic/Line input channel strips with a three-band, mid-sweep equalizer plus a low cut filter for setting just the right tone on your microphones or instruments. These channels also offer two auxiliary sends that can be used for creating a monitor mix and for routing your signals to effects processors. The mono channels also feature a pan control for creating a stereo image, bus output assign switches and a 60mm fader for setting the level. In addition to the mono inputs, there are four channels set up as Stereo/Dual mono inputs with two-band equalizer, switchable aux send, balance, a utility mic input and 60 mm faders for controlling the level. Clean, clear sound reproduction with dazzling digital effects including Delay, Chorus and lush Reverb, packaged in a rugged enclosure, will ensure reliable high quality sound from performance to performance. Optimized for recording, live sound reinforcement and commercial installations; the MDR10 is an ideal mixer solution offering big sound in a compact package

**FEATURES**

- > Ten channels – Six Mic/Line plus two Stereo/Dual inputs with mic pre's for a total of 10 microphone inputs.
- > Flexible design topology ideal for live sound, recording and post production.
- > On-board 24 BIT, DSP (Digital Signal Processor) multi-effects processor with eight great sounding presets including REVERB, DELAY AND CHORUS.
- > Flexible signal routing via the main L and R Mix, 3 / 4 bus outputs, as well as the Mono output.
- > 60 mm audio taper faders on all channels and the master 3 / 4 and Mix outputs.
- > 2 TK TO MIX control allows you to mix in a CD, DAT, Cassette, Computer Sound Card or Mini Disk.
- > The mono inputs feature a three-band channel equalizer with 15dB of cut or boost at 80Hz, variable mid-range from 100 Hz to 5 KHz with 15dB of cut or boost and 15dB of cut or boost at 12KHz, plus a Low Cut filter at 80Hz providing precise and musical results in sound shaping.

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**PRODUCT SPECIFICATION SHEET**

SERIES  
**MDR**

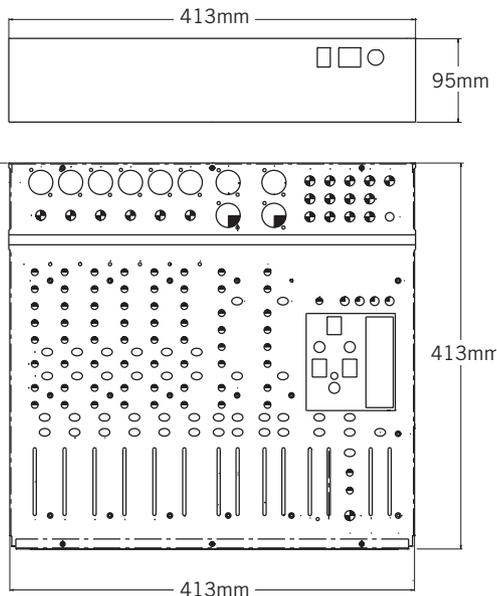
DESCRIPTION  
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**MDR 10**

**FEATURES (continued)**

- > Two Auxiliary Sends, with Pre-Post switching on Aux 1, can be used to route signals to external effects, or to create a separate mix for on-stage monitors, or studio headphones.
- > Twelve-segment LED Meter with VU ballistics displays the main MIX output, plus SOLO, PFL, Phantom and Power LED indicators.
- > High quality, low noise, discrete microphone pre-amplifiers with 48-Volt phantom power, provide Maximum Dynamic Range and transparent audio.
- > Advanced circuit design using discrete components and high quality, low noise op-amps carefully selected at each stage of the signal path.
- > Quality built and rugged construction ensure reliable performance from venue to venue and session to session.
- > Three-year extended warranty.



**ARCHITECT'S & ENGINEER'S SPECIFICATIONS**

The Samson MDR10 shall be a 10 input, stereo output mixer with alternative buses. It shall have 6 mic channels with trim control, HF control, High pass switch, MF level and frequency sweep, LF equalizer control, 2 aux sends (one pre / post switchable), pan control, solo button, bus 3-4 switch, and a 60mm fader. It shall have 2 mic/line stereo channels with High frequency control, Low frequency control, 1 aux control with aux 1/2 switch, pan control, solo button, bus 3-4 switch and 60mm fader. 60mm bus 3-4 and left and right output faders will also be available. A control room and headphone output with level control shall also be provided. 24 bit DSP effects shall also be provided with 8 presets. The MDR10 uses an external power supply.

**MDR 10 SPECIFICATIONS**

**Frequency Response** (Trim @ Min, unity gain +0/-1 dB)  
 Mic to Main ..... 10 Hz - 30 kHz  
 Line to Main ..... 10 Hz - 30 kHz  
 Aux Return to Main ..... 10 Hz - 30 kHz  
 Line to Aux Send ..... 10 Hz - 32 kHz

**T.H.D.** (Trim @ Min, +4dBu output, unity gain, 1 kHz w/30 kHz LPF)  
 Mic/Line to Main (Mono Ch) .0.02%  
 Line to Main (Stereo Ch) ..... 0.02%  
 Line to Aux Send ..... 0.02%

**Equivalent Input Noise** ("A" filter on, input shorted)  
 Mic.....-128 dB  
 Line.....-102 dB

**Maximum Voltage Gain**  
 Mic to Main ..... 72 dB  
 Line to Main (Mono Ch) ..... 56 dB  
 Line/Tape to Main (Stereo Ch) .. 20 dB  
 Aux Return to Main ..... 20 dB  
 Mic to Aux Send ..... 74 dB  
 Line to Aux Send (Stereo Ch) .. 41 dB

**Residual Noise** (30 kHz LPF, all control Min)  
 Main ..... -85 dBu  
 Aux Send ..... -82 dBu

**Crosstalk** (@ 1 kHz w/ 30 kHz LPF)  
 Ch vs. Ch ..... -75 dB  
 Input vs. Output ..... -86 dB

**Peak LED Sensitivity** (before clipping) ... 5 dB

**CLIP Indicators** ..... Turn on: THD> 0.1%

**Headphone output** (600 ohm load)..... 100 mW

**Maximum Input Level** (1 kHz, Ch. & Mix Fader set to zero)  
 Mic Input (Mono Ch) ..... +11 dBu  
 Line Input (Mono Ch) ..... +27 dBu

**Input Channel Equalizer** (± 2dB)  
 High (shelving) ..... 12 kHz ±15 dB  
 Mid (peaking) ..... Variable 100Hz - 5 kHz ± 15 dB  
 Low (shelving) ..... 80 Hz ±15 dB

**Meters** ..... 12 POINT LED METERS (-21, -18, -16, -12, -9, -6, -3, 0, +3 +6, +9, +20)

**Internal DSP Effects** ..... 24 BIT -8 presets: 1 - Large Hall; 2 Medium Hall, 3 - Large Room; 4 - Vocal Room 1; 5 - Vocal Room 2; 6 - Chorus + Reverb; 7 - Chorus + Delay; 8 - Stairwell

**Phantom Power** ..... +48V

**Power Requirement** ..... 110V-240V, 50/60Hz

**Power Consumption** ..... 50W

**Dimensions** (W x D x H) ..... 16.25" x 16.25" x 3.75"  
 (413cm x 413cm x 95cm)

**Weight**..... 7.5 lbs. (3.4 kg)