

X-Eight RT console



description

The X-Eight RT console is designed specifically for sound contracting, industrial, rental, and installation applications. A live performance, front-of-house console suitable for veterans and beginners alike, the X-Eight RT includes identical four-band eq on all mono and stereo input channels. Auxiliary sends 5/6 and 7/8 may be switched between mono or stereo operation. Signal monitoring is provided on all input and output fader channels, assisting the operator in setting correct gain structure throughout the console. Stereo full-facility input channels are used for effect-returns on all faders. Independent recording output and tape monitoring facilities are provided that will not interfere with live-performance production, and which may also be used as special-effects outputs and additional line-input facilities for theatrical applications. A microprocessor-based muting system is provided on both inputs and outputs, and may be operated manually or in sequential-mode.

sound fundamentals

Even in the most demanding environments, the sonic performance of the X-Eight RT is sure to please discriminating sound engineers and audiences alike. The X-Eight's circuitry delivers both extended headroom and low-noise: exclusively employing the latest-generation of integrated circuits and studio-grade proprietary-design microphone pre-amplifiers. The X-Eight RT console exhibits exceptional phase-shift performance, revealing less than ± 30 degrees-of-shift from input to output—significantly better results than most consoles, regardless of price.

built to defy murphy's law

X-Eight RT consoles are manufactured to the same exacting quality-standards as all Crest Audio console products. Each input channel has its own discrete vertically-mounted circuit board, for greater impact resistance and serviceability. All circuit boards employ plate-through double-sided glass epoxy construction—providing greater strength and integrity. The console's road-worthy external frame is fabricated from 14-gauge galvanized steel. X-Series power supplies utilize amplifier-engineering technology to deliver stable voltages and long-term reliability, and provide built-in facilities for a redundant back-up supply—ensuring that the show will always go on.

features

- four-band eq with sweepable mid-bands and high-pass filters on all inputs
- separate eight-track record output and monitor inputs allow live-sound recording without compromising the house-mix
- microprocessor-based muting system enables outputs to be used for special-effects in theatrical applications
- multiple outputs, including ALTERNATE OUTPUT, MATRIX 1–4 and dedicated ASSISTIVE LISTENING outputs
- direct-output on all mono input channels
- five-segment LED level indicator on all mono input modules, with variable intensity SIGNAL PRESENT indicator and multiple sample-point PEAK indicator
- eight auxiliary mixes, with AUX 5/6 and AUX 7/8 switchable to stereo-operation
- stereo solo system, features switchable AFL/PFL mode and LAST-PRESSED functions, with master SOLO CLEAR switch
- discrete bus assignment to groups, left/right and mono outputs
- true LCR panning available on mono input channels
- separate ground-compensated insert sends and balanced returns
- fully-balanced primary outputs and balanced mic and line inputs
- meter bridge—thirteen mechanical meters with solid-state illumination: eight groups, left, right, mono (center) and solo-left/solo-right

wide range of configurations

X-Eight consoles are supplied with either 24, 32, 40, or 48 mono input channels, plus four full-featured stereo line-input channels—which can also serve as effect-returns. These standard configurations include Master and Group modules—all other inputs may be ordered as mono-mic/line or stereo-line, in four-channel blocks.

microprocessor-based muting system

The X-Eight RT's straightforward microprocessor-based muting system was co-developed with JL Cooper; and combines muting flexibility with ease of operation. Eight manual-mute groups are provided, each with a dedicated activation-switch, any number of which may be activated at one-time. The system includes 128 MIDI-based sequential scene mutes that can work alone, or in conjunction with the manual mute groups. Scene mutes can be controlled via external MIDI signals, and each of the 128 mute scenes may be pre-set to issue a MIDI program-change command to an external device.



frequency response	+0/-1dB 20Hz-20kHz ref 1kHz—any input to any output
THD	any output <.01% THD 20Hz-20kHz @ +15dBu out
noise	mic in better-than -128dBu 20Hz-20kHz—150ohm source, 60dB gain
crosstalk	channel mute >80dB channel routing >80dB channel fader attenuation >90dB aux send attenuation >75dB
phase shift	< +/- 30 degrees, 20Hz-20kHz—mic-in to main-out
inputs	mic-in XLR 4k ohm balanced—max voltage gain to left/right balanced out = 98dB line-in TRS >10k ohms balanced
outputs	left/right/mono—group, aux, matrix—monitor-out all 100 ohms balanced headphones to drive > eight-ohms
insert	send 50 ohms ground-compensated on TRS jack return >10k ohms balanced on TRS jack
nominal output level	+4dBu max level +26dBu balanced into >1k ohms
input channel eq	high freq +/- 15dB shelf at 12kHz hi-mid freq +/- 15dB bell freq range 400Hz-8kHz Q=1.5 low-mid freq +/- 15dB bell freq range 80Hz-2kHz Q=1.5 low freq +/- 15dB bell-boost/shelf-cut freq center 80Hz Q=.7 on boost high-pass filter -12dB/octave freq range 20Hz-400Hz separate on-switches for eq and high-pass filter
output features	eight independent tape returns—with assignment to main left/right/mono buses plus aux-sends for aux 5-8
channel metering	five-segment LED ladder with VU-type response—displays pre-fader signal level top red-LED warns of impending overload—anywhere within the channel, lowest green-LED shows signal-present
master metering	thirteen mechanical VU-type meters with LED-illumination eight-meters showing group-outs three-meters showing main-outs (left/right/mono), and two dedicated solo-meters
signal generator	pink-noise generator can feed the talk-back section
construction	chassis is powder-coated 14-gauge galvanized steel with internal-bracing modules are powder-coated 18-gauge galvanized steel with baked-epoxy screening
dimensions and weights	see dimension-drawing
warranty	five-years

