

X-Four console



description

If your application requires all the features and performance of a thoroughly-professional mixing console, but presents severe space-restrictions, then the Crest Audio X-Four console is the ideal solution. The compact X-Four is a dual-function console, equipped for front-of-house or stage-monitor duties. It is intended for live-performance, professional sound contracting, industrial, rental, and installation sound applications. Despite its small footprint, X-Four is equipped with those features most-needed by front-of-house and monitor engineers. Four-band eq is provided on mono and stereo input channels. Auxiliary sends 5/6 may be switched between mono or stereo operation. Stereo full-facility input channels are used for effect-returns on faders.

Mandatory for industrial applications, separate insert-send and -return connectors are included on all groups, auxiliary, and primary outputs, as well as on mono input channels. Signal monitoring is provided on all input and output fader channels, assisting the operator in setting correct gain structure throughout the console. Eight-channels of four-band eq are provided on the Aux and Matrix outputs, and are switchable to the group and left, right and mono outputs.

sound fundamentals

Even in the most demanding environments, the sonic performance of the X-Four is sure to please discriminating sound engineers and audiences alike. The X-Four'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-Four console has exceptional phase-shift performance, exhibiting less than +/-30 degrees-of-shift from input to output—significantly better results than most consoles, regardless of price.

wide range of configurations

X-Four consoles are supplied with either 8, 16, 24, 32 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.

features

- four-band eq with sweepable mid-bands and high-pass filters on all inputs
- eight-channels of four-band output eq—located on the six aux and four matrix outputs: switchable to group, left, right, and mono (center) output channels
- inclusion of output eq reduces the need for external processing and its associated wiring
- fader reverse function optimizes console for front-of-house or monitor-mix applications
- multiple outputs, including ALTERNATE OUTPUT, MATRIX 1–2 and dedicated ASSISTIVE LISTENING outputs
- direct-output on all mono input channels
- five-segment LED level indication on all mono input modules, with variable-intensity SIGNAL PRESENT indicator and multiple sample-point PEAK indicator
- six auxiliary mixes, with AUX 5/6 switchable to stereo-operation
- stereo PFL and AFL solo system features dedicated left and right solo-metering
- discrete bus assignment to groups, left/right and mono outputs
- true LCR panning available on mono input channels
- all solo (PFL/AFL) and mute buttons illuminate when active
- separate ground-compensated insert sends and balanced returns
- fully-balanced primary outputs and balanced mic and line inputs
- talkback individually-assignable to each main, aux, and group output
- low-profile LED metering—nine 15-segment meters: four groups, left, right, mono (center) and solo-left/solo-right
- transformer isolation (optional) on mic inputs and left, right, and mono outputs

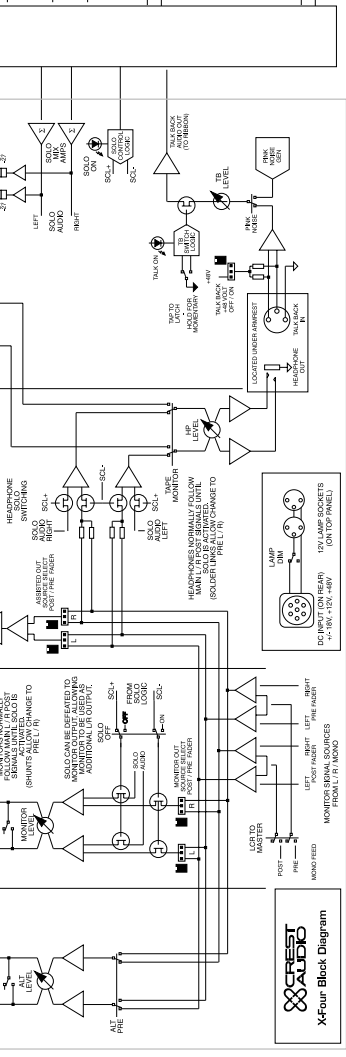
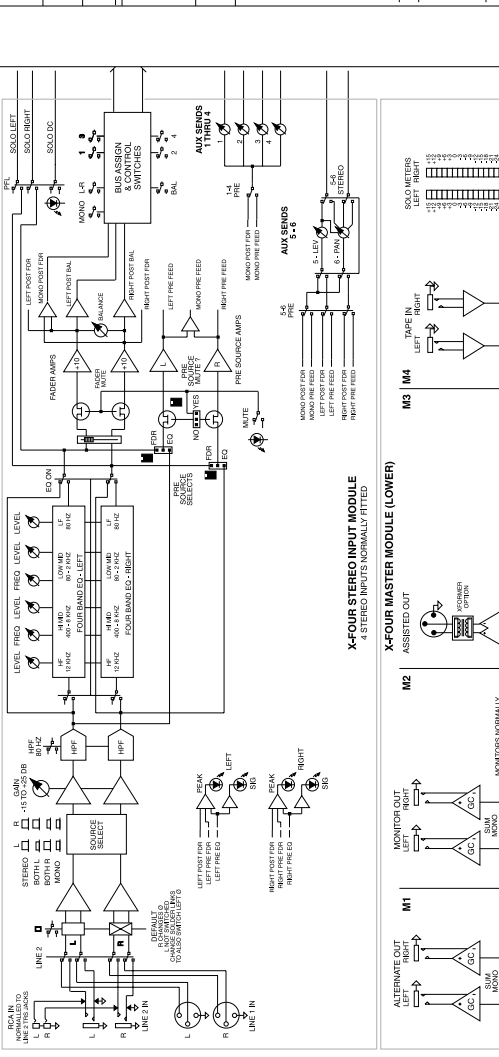
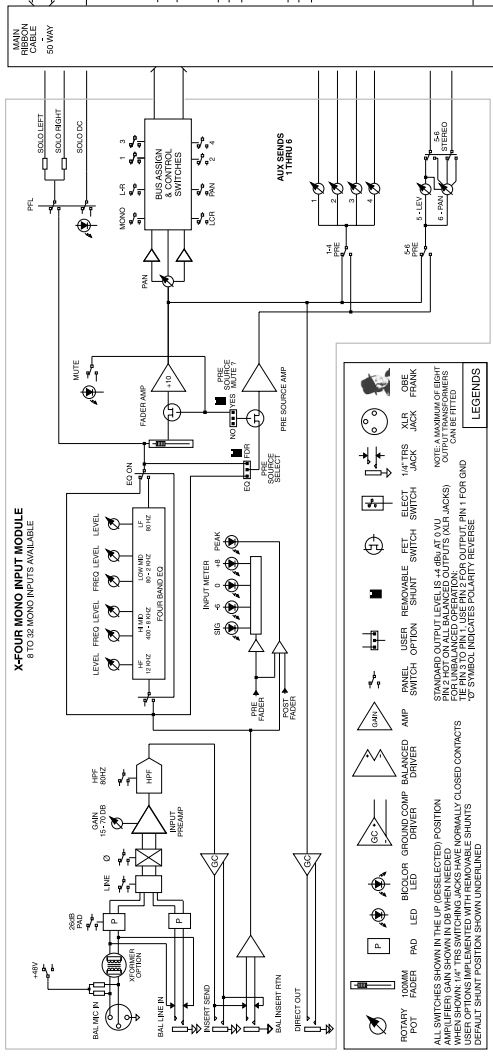
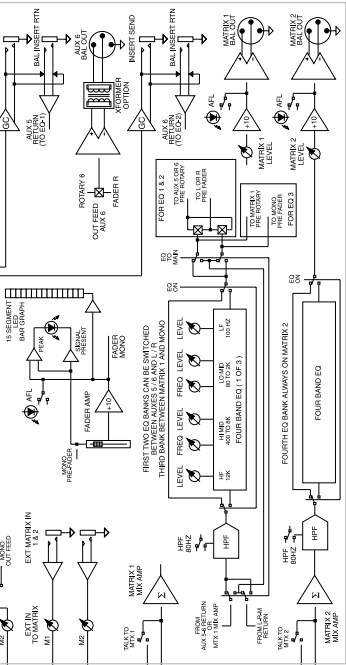
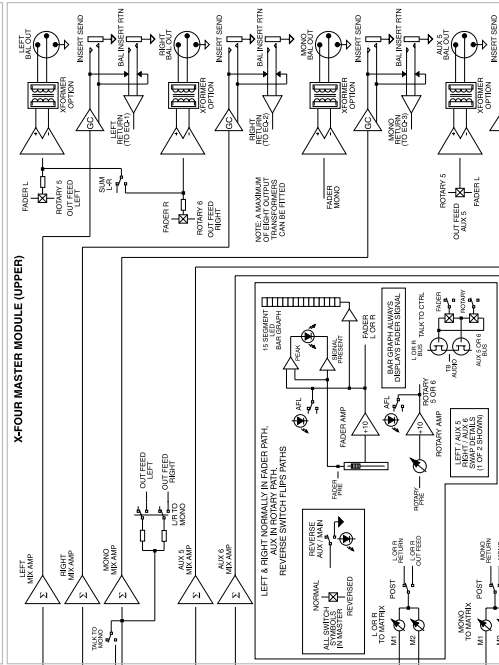
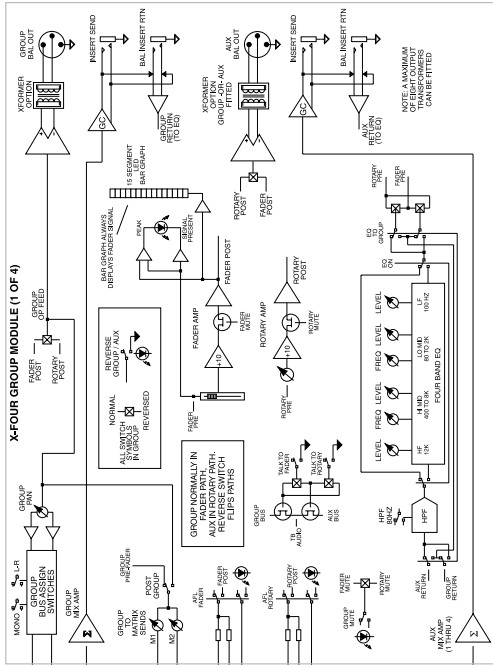
built to defy murphy's law

X-Four 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 plated-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.



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—150 ohm source, 60dB gain bus output noise less-than -80dBu—output fader @ 0dB, 24 channels routed residual output noise less-than -90dBu—output fader at minimum		
crosstalk	channel mute >80dB	channel routing >80dB	
phase shift	channel fader attenuation >90dB aux send attenuation >75dB < +/- 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 at 80Hz	separate on-switches for eq and high-pass filter	
output features	aux and matrix eq high freq +/-15dB shelf at 12kHz	high-mid +/-15dB bell freq range 400Hz-8kHz, Q=1.5	
	low-mid +/-15dB bell, freq range 80Hz-2kHz, Q=1.5	low freq +/-15dB shelf at 100Hz	
	high-pass filter -12dB/octave at 80Hz	separate on-switches for eq and high-pass filter	
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	seven 15-segment LED ladders shows main output-levels two-additional LED ladders monitor the stereo solo bus		
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		

block diagram



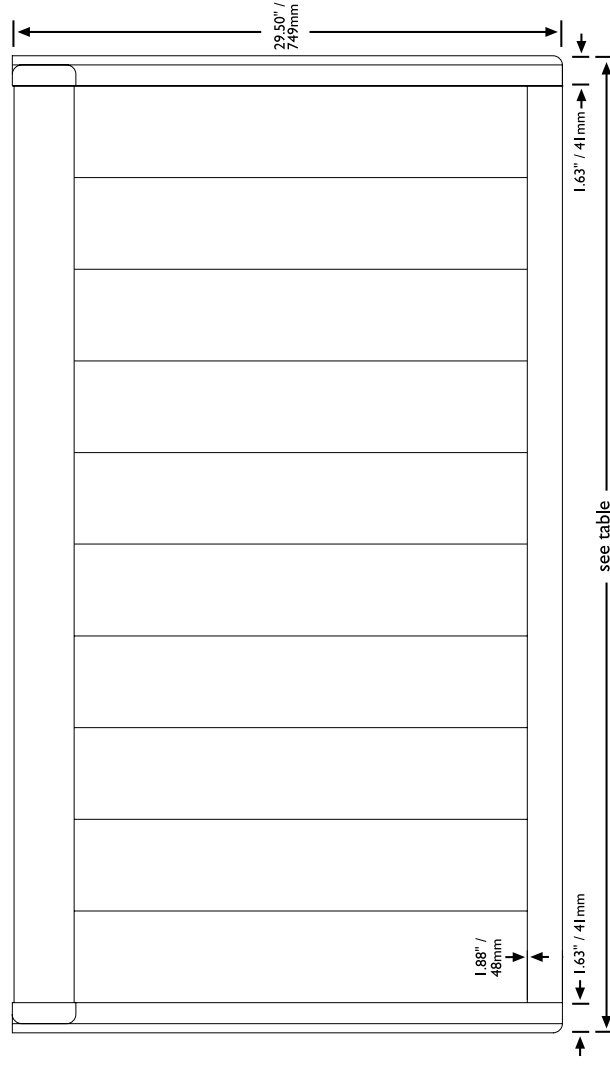
- LEGENDS**
- ROTA: ROTARY SWITCH
 - SW: SWITCH
 - LED: LIGHT EMITTING DIODE
 - AMP: AMPLIFIER
 - DR: DRIVER
 - COM: COMMON
 - CON: CONNECTOR
 - RES: RESISTOR
 - CAP: CAPACITOR
 - IND: INDUCTOR
 - OP: OPERATIONAL AMPLIFIER
 - HPF: HIGH PASS FILTER
 - LPF: LOW PASS FILTER
 - BPF: BAND PASS FILTER
 - EQ: EQUALIZER
 - MC: MICROPHONE
 - TAPE: TAPE HEAD
 - MON: MONITOR
 - SPK: SPEAKER
 - DC: DIRECT CURRENT
 - AC: ALTERNATING CURRENT

STANDARD OUTPUT LEVELS: 0dB AT 1VU
NOTE: A MAXIMUM OF EIGHT OUTPUT TRANSFORMERS CAN BE FITTED.
PUSH TO ON ALL BALANCED OUTPUTS (XLR JACKS).
PUSH TO OFF ON ALL BALANCED INPUTS (XLR JACKS).
PUSH TO ON FOR PHONO INPUTS.
PUSH TO OFF FOR PHONO INPUTS.
PUSH TO ON FOR MONO INPUTS.
PUSH TO OFF FOR MONO INPUTS.
PUSH TO ON FOR STEREO INPUTS.
PUSH TO OFF FOR STEREO INPUTS.
PUSH TO ON FOR PHONO INPUTS.
PUSH TO OFF FOR PHONO INPUTS.
PUSH TO ON FOR PHONO INPUTS.
PUSH TO OFF FOR PHONO INPUTS.



dimensions

top

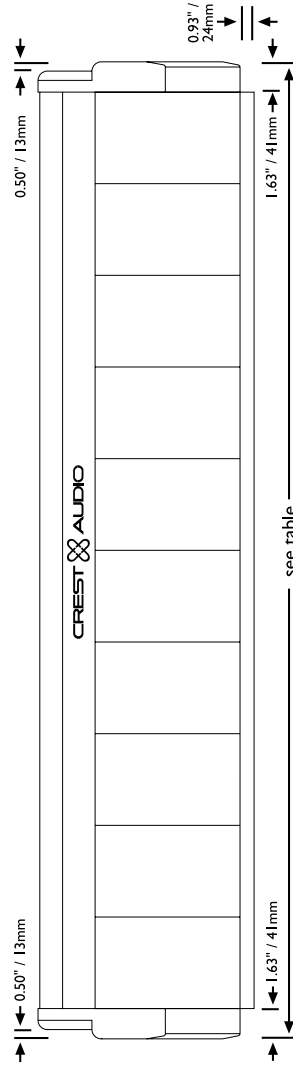


X-Four

frame	dimensions	weight
20	28 x 26 x 9 in 71 x 66 x 23 cm	63 lbs 28.6 kg
28	38 x 26 x 9 in 96.5 x 66 x 23 cm	84 lbs 37.8 kg
36	48 x 26 x 9 in 122 x 66 x 23 cm	105 lbs 47.25 kg
44	57 x 26 x 9 in 145 x 66 x 23 cm	126 lbs 57.3 kg

frame size = total number of modules in a console
(inputs + groups + master + etc)

rear



side

