

Digital Mixers

X32 POWERED BY MIDAS

40-Input, 25-Bus Digital Mixing Console with 32 Programmable MIDAS Preamps, 25 Motorized Faders, Channel LCD's, FireWire/USB Audio Interface and iPad/iPhone*

- 40-input channel, 25-bus digital mixing console for Studio and Live application
- 32 MIDAS-designed, fully programmable mic preamps for audiophile sound quality
- 25 Fully automated motorized 100 mm faders allow for instant overview, powerful scene management and DAW control
- 16 XLR outputs plus 6 additional line in/outputs, 2 phones connectors and a talkback section with integrated or external mic
- Individual and dynamic LCD Scribble Strips on all channels and buses creating easy assignment and intuitive channel distinction
- 32 x 32 channel audio interface over FireWire and USB 2.0, with DAW remote control emulating HUI* and Mackie Control*
- iPad* and iPhone* apps for professional remote operation available free of charge—no host PC required
- High-resolution 7" day-viewable Color TFT for easy viewing of workflow components and parameters
- Main LCR, 6 matrix buses and 16 mix buses each featuring inserts, 6-band parametric EQ's and full dynamics processing, plus 8 DCA and 6 mute groups
- Virtual FX rack featuring 8 true-stereo FX slots include high-end simulations such as Lexicon 480L*, and PCM70*, EMT250* and Quantec QRS* etc.
- 40-Bit floating-point DSP features "unlimited" dynamic range with no internal overload and near-zero overall latency (0.8 msec)



iPhone not included

The X32 Digital Mixing Console has taken the entire audio world by storm, selling many thousands of units in its first production year. It has been praised by leading audio experts and engineers for its phenomenally user-friendly, intuitive layout and elegant workflow, literally changing the rules of the game when it comes to live performance and recording applications. Our new XiControl iPad App / XControl PC App lets the operator listen to and adjust FOH and monitor mixes from anywhere in the venue, providing exceptional freedom and ease-of-use.

Ready for Your Input

Use any combination of the local 32 console mic inputs or the networked digital snake inputs on stage—their audiophile quality programmable preamps always ensure full control, purity and impeccable dynamics. The dedicated channel strip section puts 17 backlit buttons and 13 rotary controls with LED-collars right at your fingertips for nuanced adjustment of each channel's compressor, 4-band parametric EQ and much more. Each input and output channel strip features its own color backlit 128 x 64 graphic scribble strip LCD, which provides vital channel information at-a-glance.

High-Count I/O Options

X32's extensive connectivity includes 32 high-end programmable mic preamps, 6 balanced Line Ins and Outs on 1/4" TRS, 16 balanced XLR Outs, plus dual Phones and balanced Control Room outputs on both XLR and 1/4" TRS connectors. Additionally, a single AES50 CAT5 cable from FOH to the stage can transfer up to 48 channels of bi-directional audio, collecting all input signals and delivering all bus outputs, along with 16 individual monitor feeds for BEHRINGER's brand new P16 personal monitoring system—all on just one line! The two AES50 ports provide connectivity for up to 6 BEHRINGER S16 stage boxes, or for sharing signals between multiple consoles—all with its ultra-low latency and high reliability the SuperMAC technology is known for.



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- Powerful scene management for convenient handling of complex productions
- 48-channel Digital Snake ready** via AES50 ports, featuring KLARK TEKNIK's SuperMAC networking capability for ultra-low jitter and latency
- USB type-A connector providing file storage and uncompressed stereo recordings plus show presets and system updates
- Dedicated and easy-to-use channel strip section with direct access controls and graphic user interface for intuitive workflow
- Additional user-definable control section allows for on-the-fly adjustments of your favorite parameters
- ULTRANET connectivity for BEHRINGER's P-16 Personal Monitoring System** plus AES/EBU stereo digital output and MIDI
- Networked remote control for show setups with on-screen software editor via Ethernet
- Built-in expansion port for audio interface cards or digital networking bridges
- Future firmware updates, incl. new FX "Plug Ins", downloadable from behringer.com free of charge
- Conceived and designed by BEHRINGER German

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** Digital Snake, Stagebox and Personal Monitoring System not included with X32.

Powered by MIDAS & KLARK TEKNIK

When we began development on the X32, we called on our sister companies, MIDAS and KLARK TEKNIK, recognized the world over for their digital consoles and EQ/FX processing, for implementation support. The programmable, high-grade mic preamps found in the X32 are based on a genuine MIDAS design, all the way down to their A/D converters. The resulting design ensures superior common mode rejection ratio (CMRR) and extremely low harmonic distortion (THD). The X32 is an amazingly clean amalgam of high technology merged with superb user-friendly features.

We received brilliant support from MIDAS and KLARK TEKNIK in designing X32's GUI (graphical user interface), a major advancement in digital mixing made easy, productive, and well... fun! They also drew on their extensive experience in FPGA (Field Programmable Gate Array) coding for rock-solid, ultra-low latency digital channel patching—giving the X32 the capacity to handle up to 168 sources on 168 destinations, including the two AES50 ports. You can expect to see more collaboration between BEHRINGER and MIDAS in the very near future.

Vital Information is Just a Click Away

Thanks to the 800 x 480 high-contrast color TFT display, you are never more than one or two button presses away from any of X32's eight highly intuitive control screens. Once you select the

desired function, dedicated rotary/push encoders allow you to set parameters and source I/O assignment, without the need to "drill down" through multiple layers of menus or page through a complex owner's manual.

Virtual FX Rack

When it comes to onboard effects, the X32 is second to none, featuring 8 true-stereo FX slots and high-quality simulations of world-famous peripherals, such as the Lexicon 480L*, PCM70*, EMT250*, Quantec QRS* and many more. The X32 can also run 4 true-stereo reverbs concurrently with 8 channels of 31-band graphic EQ—without the need for expensive external hardware.

Versatile Signal and Scene Management

Signals can be assigned to eight DCA groups (Digitally Controlled Amplifier), which provides simultaneous group level control via dedicated 100 mm motorized faders. The audio engineer can communicate with the talent by means of the Talkback section's onboard mic or an external mic of their choosing. X32's scene management allows snapshots of high-level production mixes to be captured and recalled for future use (you can even save them to a USB stick). X32 even has a dedicated custom control section with user-definable knobs and buttons where you can create your own set of controls, making it easy to access frequently used functions "on-the-fly."

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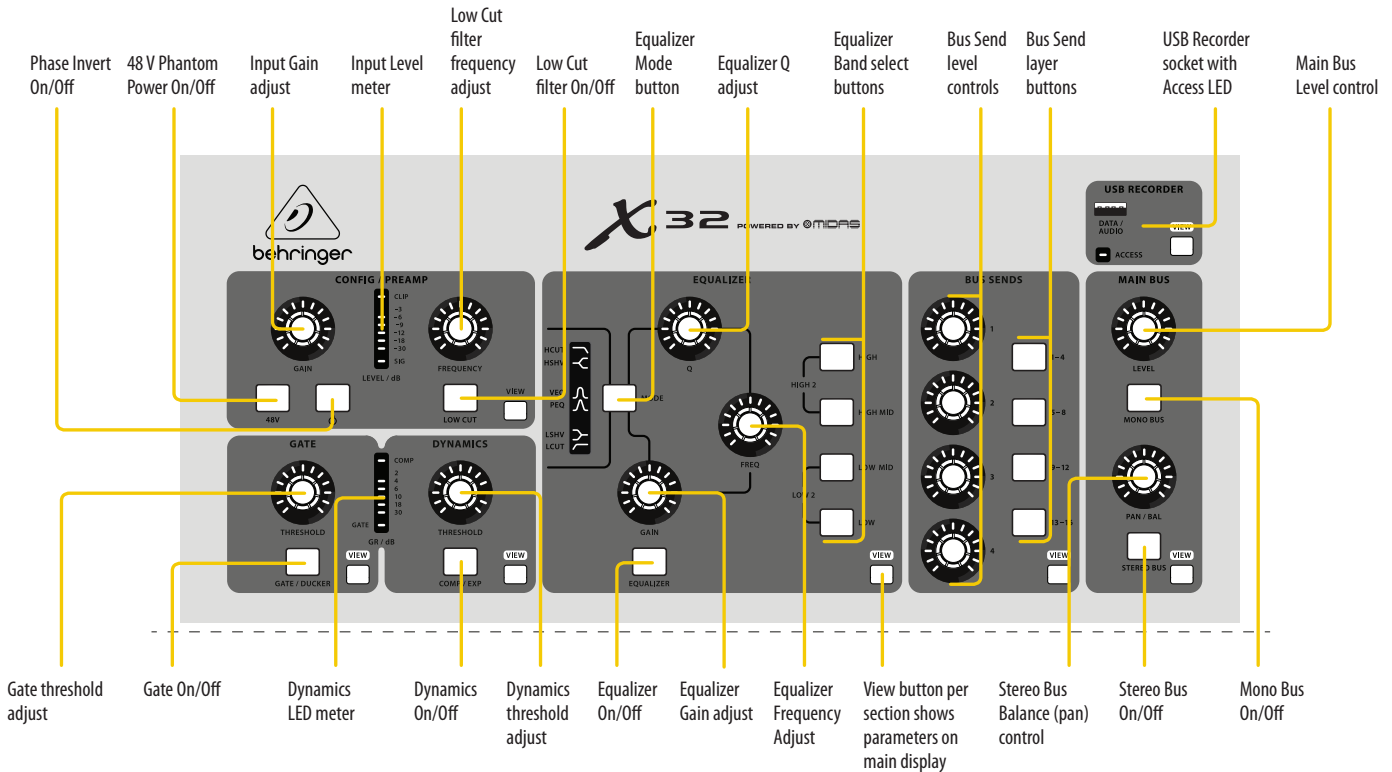
Bus and Rear Panel Flexibility

X32 provides 25 fully featured mix buses that can be configured for many different applications; Main LCR (Left, Center, Right) buses; 16 mix buses

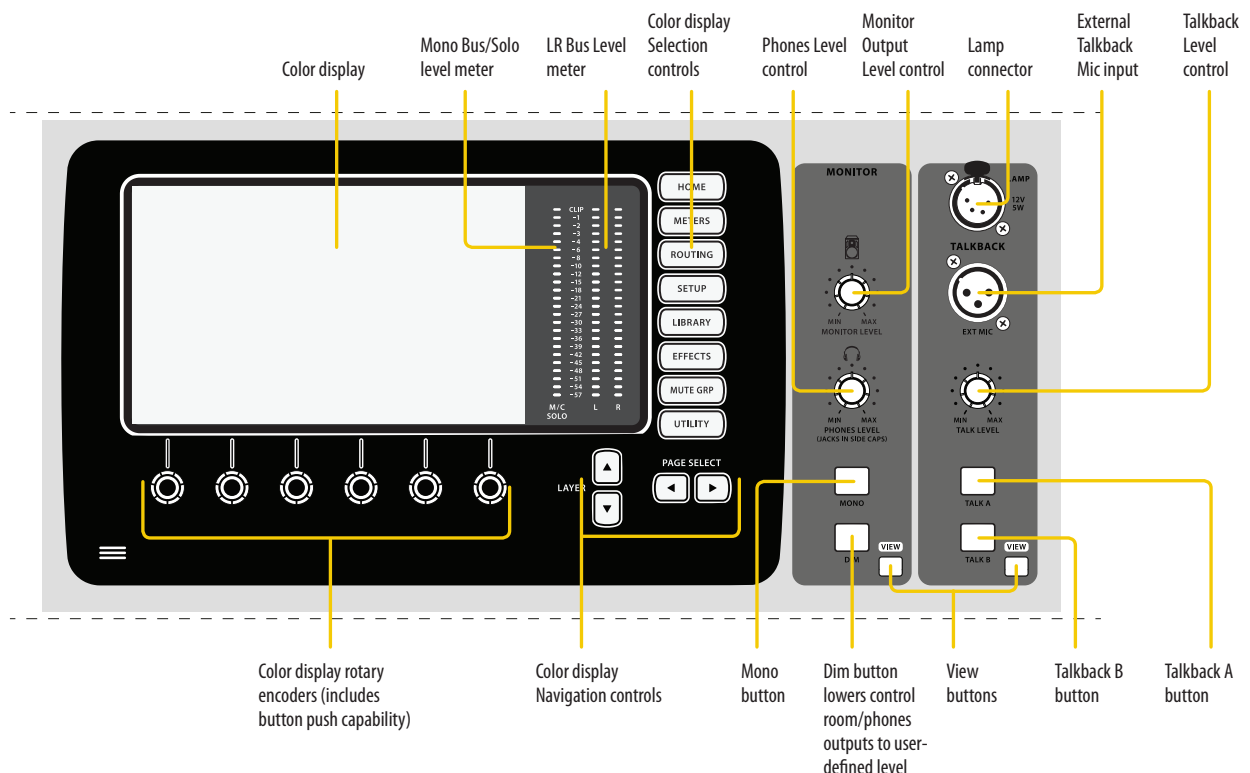
(individually configurable as pre/post EQ, pre/post Fader or Subgroup) with Inserts, 6-band parametric EQ and dynamics processing; plus six independent Matrix Mixes with Inserts, also with 6-band parametric EQ and dynamics processing.

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Input Channel Preamp, Dynamics & EQ Panel



Main Display, Monitor & Talkback Panel

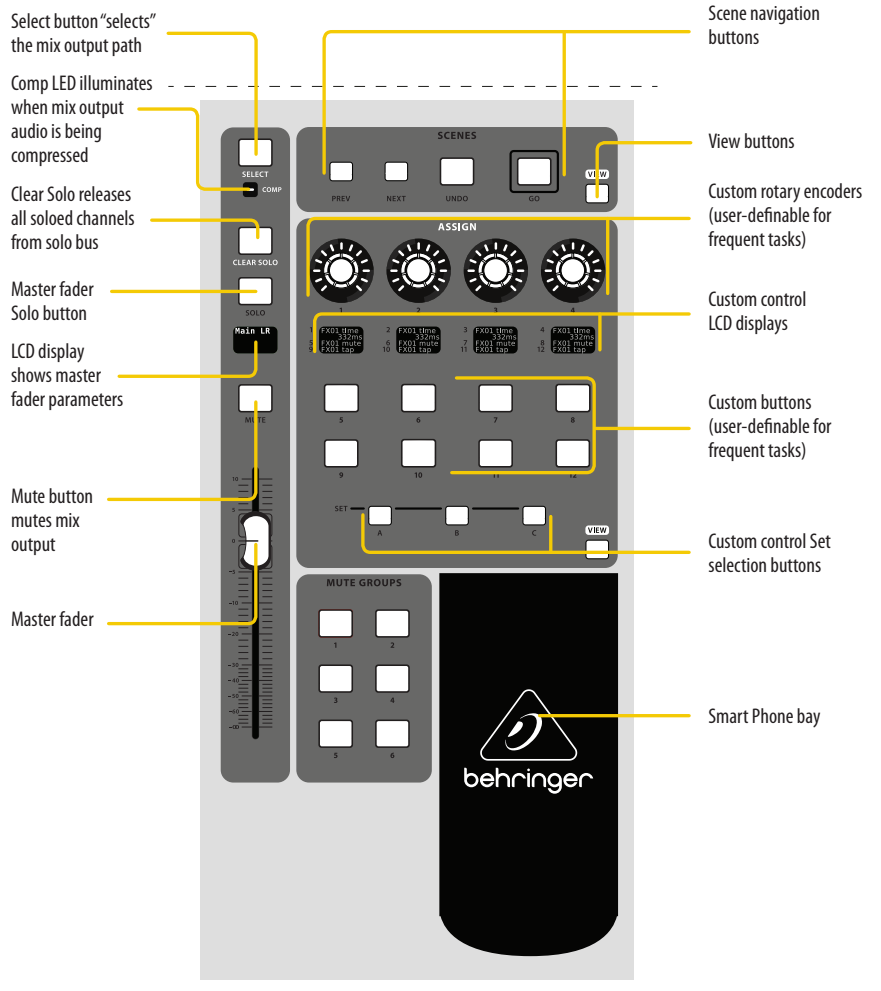




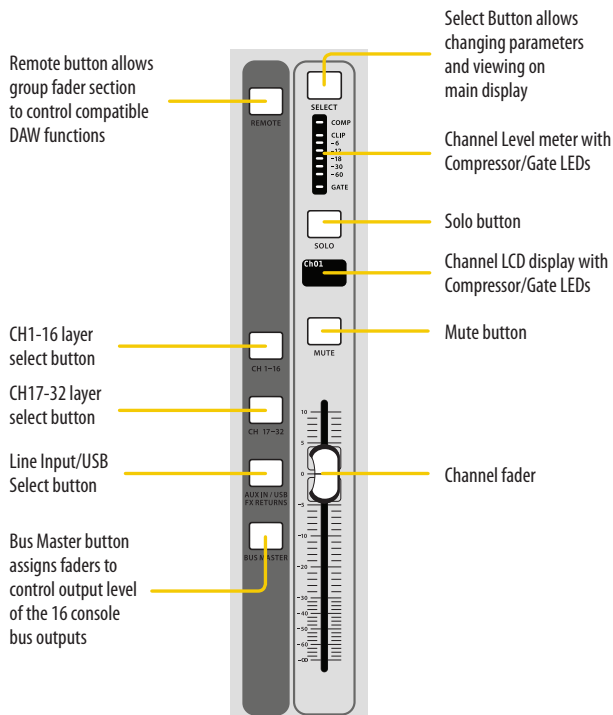
The X32 abounds with a total of 168 accessible sources and destinations—and managing this much I/O has never been easier! Next to all the analog ins and outs, the rear panel also sports two AES50* ports, each with KLARKTEKNIK's rock-solid SuperMAC networking capability (addressing a total of 96 concurrent inputs and outputs) for dependable communication between the X32 and digital snakes, remote stage boxes or even other consoles. Stereo AES/EBU output, ULTRANET P16 and MIDI are also supported, plus a convenient top panel USB port is provided for recording an uncompressed two-channel "board mix" straight to any standard USB thumb drive or for playing background music. The Ethernet socket allows complete remote control via LAN or WiFi, and the expansion slot suggests there is even more to come...

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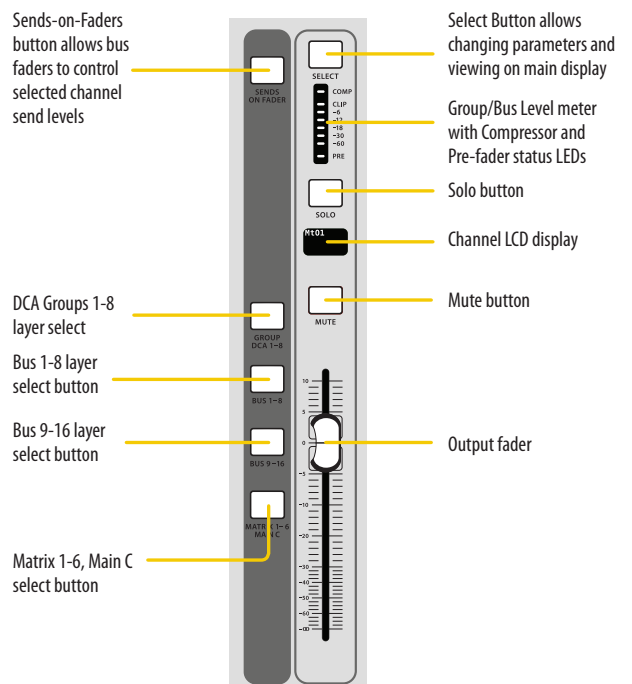
Main Out, Scenes & Custom Control Panel



Input Channel Strip



Output Channel Strip





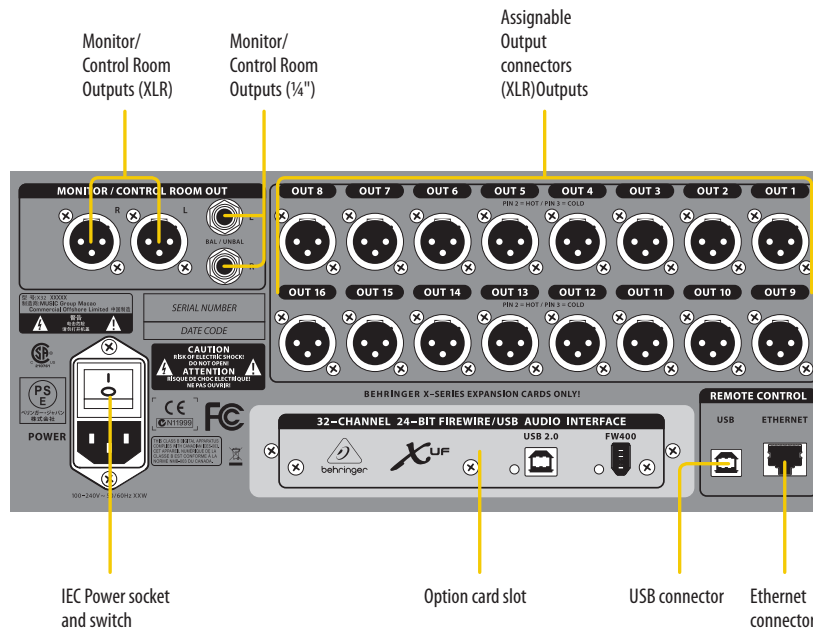
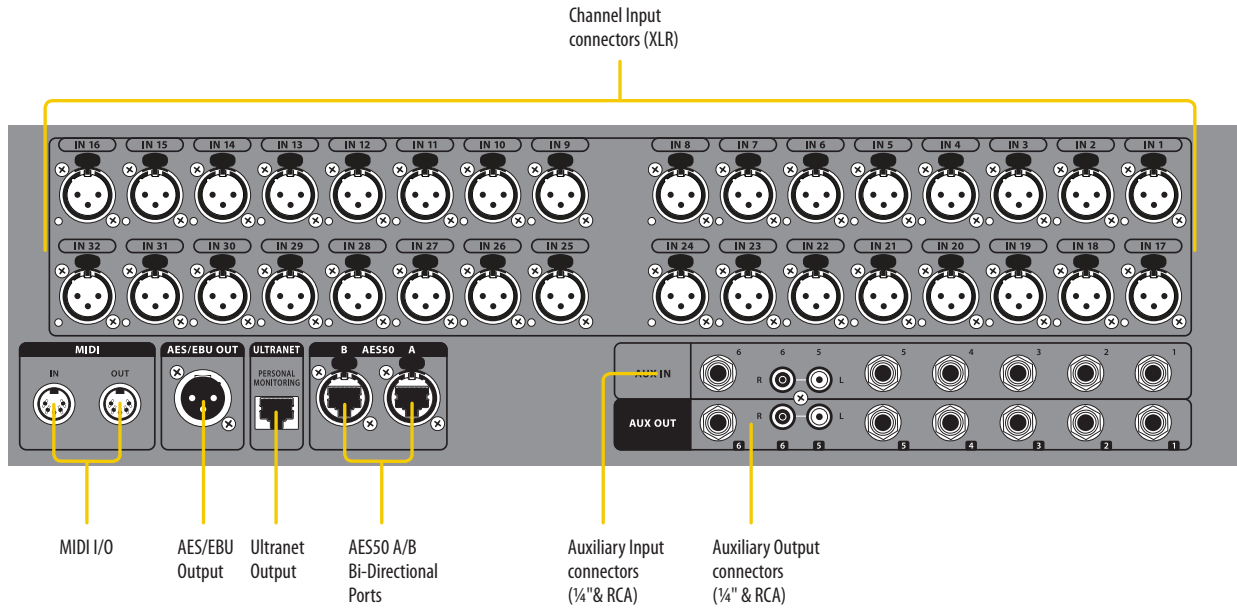
The Future is Here—Now!

X32 ships with the insanely powerful XUF FireWire/USB audio interface card pre-installed in the expansion slot right out-of-the-box! XUF provides low-latency 24-bit audio interfacing with Mac or PC host computers in the form of 32 In x 32 Out channels and MIDI. It even

transmits HUI and Mackie Control data along with the audio I/O, which provides convenient remote control of your DAW via the X32 group fader section controls. XUF is compatible with CoreAudio on Mac OS 10.5 and above, and high-performance ASIO drivers for Windows PC are downloadable from behringer.com.

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Rear Panel Input Patchbay



X32 POWERED BY MIDAS

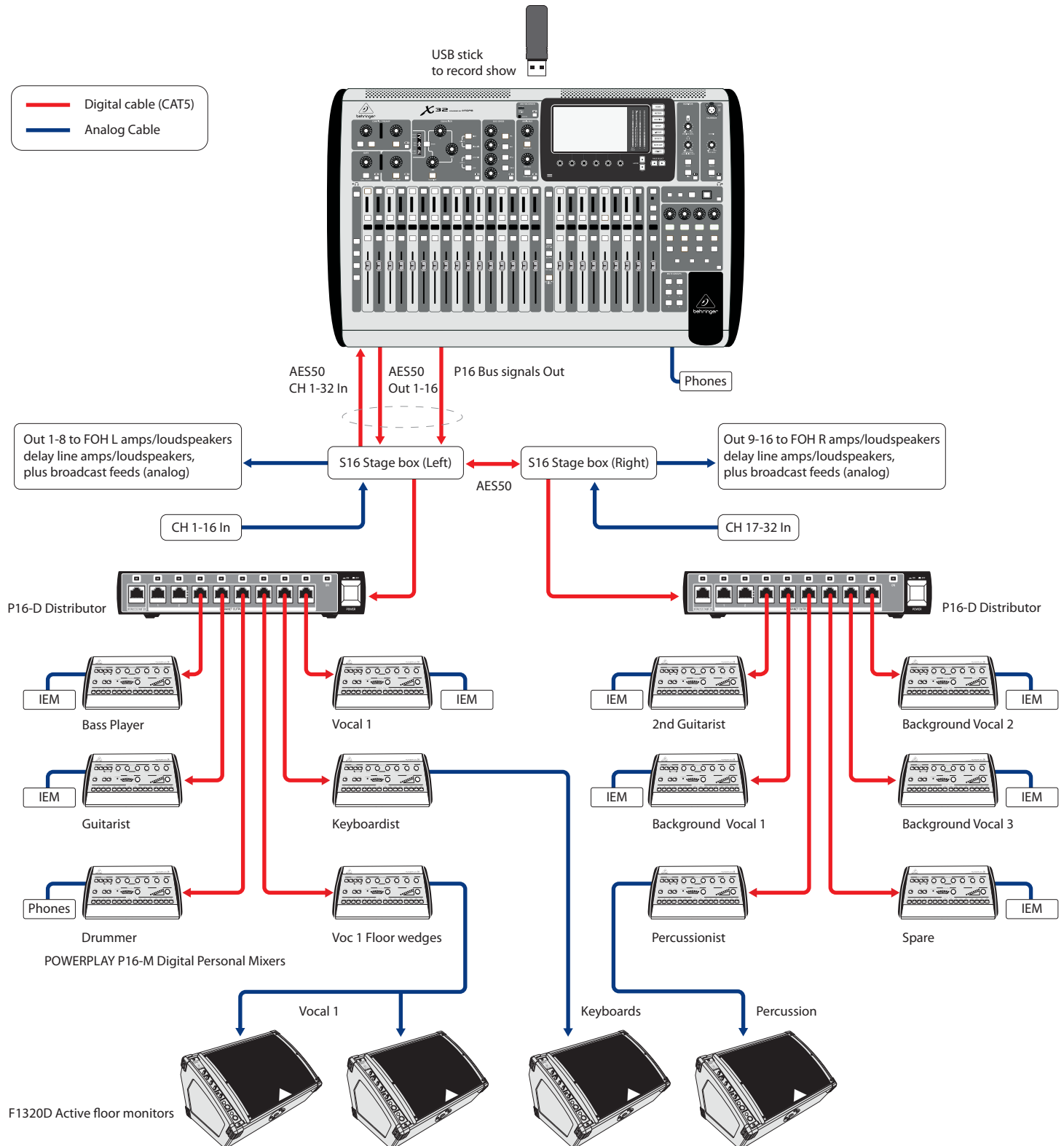
Digital Mixing—Analog Price

The BEHRINGER X32 sets a high benchmark for live sound mixing and provides a fantastic price-to-performance ratio. The X32 represents a major synergism between BEHRINGER, MIDAS

and KLARK TEKNIK that delivers a full-featured digital mixer with so many input / output channels, extensive editing, flexible expansion options and an intuitive user interface at an amazing price point.

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X32 Live Performance Setup with S16 and P16 Monitor System



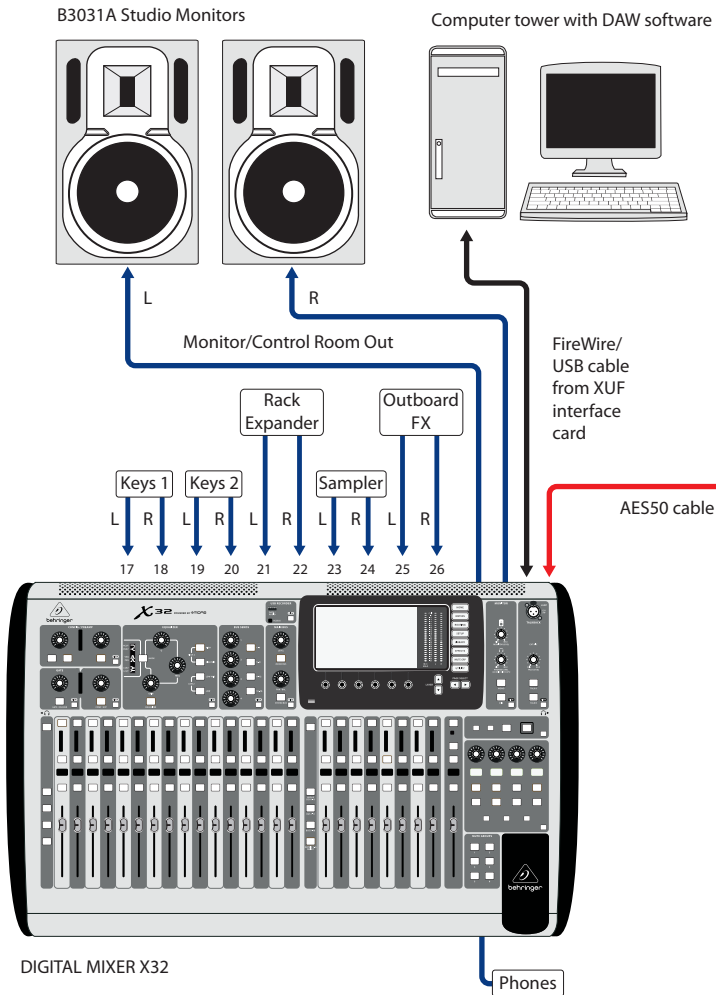


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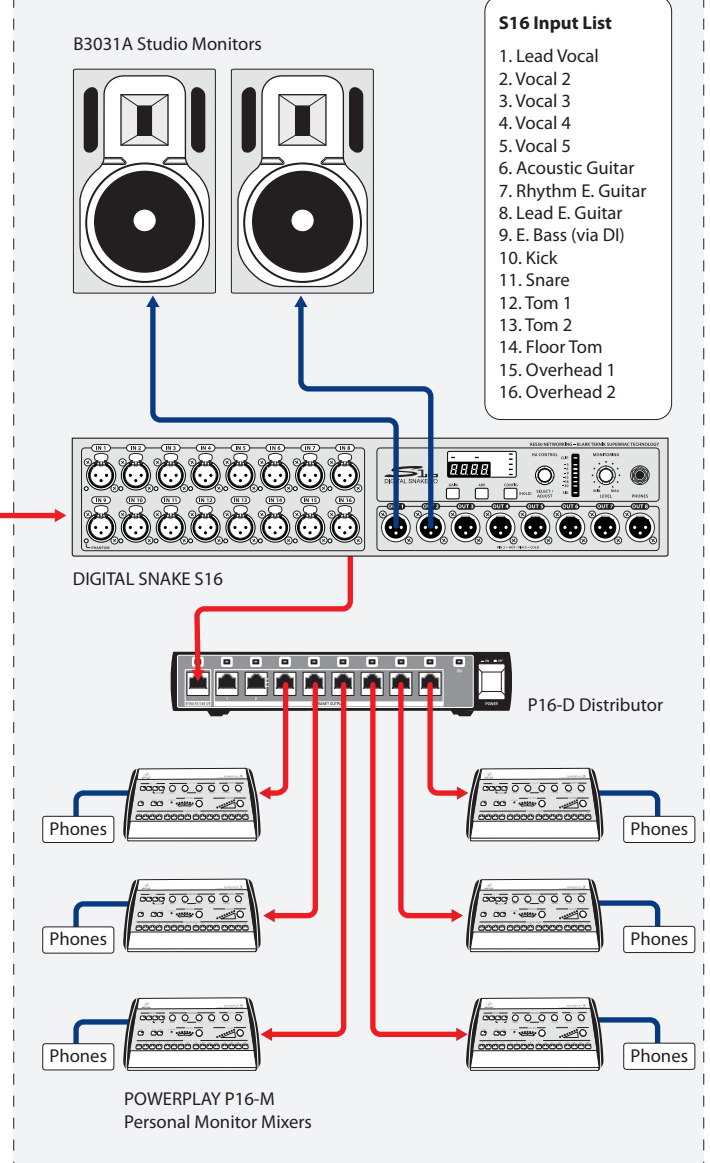
**Digital Snake, Stagebox and Personal Monitoring System not included with X32.

X32 Recording Studio Setup

Control Room



Recording Room



S16 Input List

1. Lead Vocal
2. Vocal 2
3. Vocal 3
4. Vocal 4
5. Vocal 5
6. Acoustic Guitar
7. Rhythm E. Guitar
8. Lead E. Guitar
9. E. Bass (via DI)
10. Kick
11. Snare
12. Tom 1
13. Tom 2
14. Floor Tom
15. Overhead 1
16. Overhead 2



Specifications

Processing

Number of processing channels	32 input channels, 8 aux channels, 16 buses, 6 matrices, main LRC
Internal effects engines, true-stereo / mono	8 / 16
Internal total recall scenes (inkl. preamp and fader)	100
Signal processing	40-bit floating point
A/D-D/A conversion (Cirrus Logic A/D CS5368, D/A CS4385)	24-bit @ 44.1 / 48 kHz, 114 dB dynamic range
Local I/O latency (local in > console processing* > local out)	0.8 ms
Networked I/O latency (stagebox in > console processing* > stagebox out)	1.1 ms
Total number of accessible input sources / outputs	168 / 168

Connectors

XLR inputs, programmable mic preamps, designed by MIDAS	16
Talkback mic input, XLR	1
RCA inputs/outputs	2/2
XLR outputs	8
Monitoring outputs XLR / ¼" TRS balanced	2/2
Aux inputs/outputs, ¼" TRS, balanced	6/6
Phones outputs, ¼" TRS	2 stereo
Digital AES/EBU output, XLR	1
AES50 ports, SuperMAC	2
Expansion card (optional)	32 channel audio input/ output, various standards
P-16 connector, Ultranet (no power supplied)	1
MIDI inputs / outputs	1 / 1
Ethernet, RJ45, rear panel, for remote control	1
USB Type A, top panel, for audio and data export/import	1
USB type B, rear panel, for system updates	1

Mic Input Characteristics

Design	MIDAS
THD + noise, 20 dB gain, 0 dBu out	< 0.006% A-weighted
Input impedance XLR, unbal. / bal.	5 kΩ / 10 kΩ
Non clip maximum input level, XLR	+23 dBu
Phantom Power, switchable per input	48 V
Equivalent input noise level, XLR (input shorted)	-128 dBu
CMRR, XLR, @ 20 dB gain (typical)	> 70 dB
CMRR, XLR, @ 40 dB gain	> 80 dB

Input/Output Characteristics

Frequency range, @ 48 kHz sample rate, 0 dB to -1 dB	10 Hz - 22 kHz
Dynamic range, analog in to analog out (typical)	106 dB
A/D Dynamic range, preamp and converter (typical)	109 dB
D/A Dynamic range, converter and output	108 dB
Cross talk rejection @ 1 kHz, adjacent channels	100 dB
Output level, XLR, nom./max.	+4 dBu / +21 dBu
Output impedance, XLR, unbal. / bal.	75 Ω / 75 Ω
Input impedance TRS Jack, unbal. / bal.	20 kΩ / 40 kΩ
Non clip maximum input level, TRS	+16 dBu
Nominal output level, TRS	+4 dBu / +16 dBu
Output impedance, TRS, unbal. / bal.	150 Ω / 300 Ω
Phones output impedance / level	40 Ω / +25 dBm (stereo)
Residual noise level, XLR and TRS	-87 dBu A-weighted

Indicators

Main Screen	7", 800x480, 262k color TFT
Channel LCD Screen (29 pcs)	128x64, LCD with RGB color backlight
Main Meter	-57 dB, -54 dB, -51 dB, -48 dB, -45 dB, -42 dB, -36 dB, -33 dB, -30 dB, -27 dB, -24 dB, -21 dB, -18 dB, -15 dB, -12 dB, -10 dB, -8 dB, -6 dB, -4 dB, -3 dB, -2 dB, -1 dB, Clip

Power

Switch-mode autorange power supply	100-240 V (50/60 Hz)
Power consumption	120 W

Physical

Dimensions	35.4 x 20.8 x 7.9" / 900 x 528 x 200 mm
Weight	45.4 lbs / 20.6 kg

*incl. all channel and bus processing, excl. insert effects and line delays

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