DIGITAL MIXER X32

32-Channel, 16-Bus Total-Recall Digital Mixing Console for Live and Recording Applications

- 32-channel total recall digital mixer with fully programmable high-end mic preamps and 16 mix buses, configurable as subgroups

- Main LCR and all 16 mix buses featuring inserts, 6-band parametric EQ's and dynamics processing

- 16 analog XLR outputs plus 6 additional line in/outputs, 2 phones connectors and a talkback section with integrated or external mic

- 48-channel digital snake ready* via AES50 ports featuring KLARK TEKNIK's SuperMAC networking capability for ultra-low jitter and latency

- Built-in expansion port for Firewire/USB/ADAT card* featuring standalone 16-channel recorder or other networking interfaces

- Virtual FX rack featuring 8 true-stereo FX slots for high-end simulations of famous outboard gear such as KLARK TEKNIK DN780, EMT250 etc. (included)

- Ultra-high power 32-Bit floating-point DSP features "unlimited" dynamic range, no internal overload and near-zero latency between in and outputs

- 6 mute groups and 8 DCA groups on 8 dedicated 100 mm motorized faders

- Super-easy user interface and dedicated channel strip section with direct access controls for intuitive workflow

iPhone not included

Ever since the "dawn of digital" audio engineers the world over have had a love-hate relationship with their consoles. The new BEHRINGER X32 digital mixing console lets you focus on your event, instead of navigating a vast sea of knobs, buttons and menus like most other live digital mixers. X32 is intuitive and powerful with 40 processing channels and 25 mix buses, all equipped with serious signal processing (dynamics, EQ and inserts), which can be configured quickly to meet the demands of virtually any gig, large or small.

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 128x64 graphic LCD, which provides vital channel information at-a-glance.

Virtual FX Rack

The onboard virtual FX Rack provides access to eight true-stereo, multi-effects processors (16 mono) including delay, chorus, dynamics—and it can run 4 production quality true-stereo reverbs concurrently with 8 channels of 31-band graphic equalization, all without the need for expensive, space-consuming external hardware.

High-count I/O options

I/O abounds with 32 high-end programmable mic preamps; 6 Aux Inputs on ¼" TRS; 16 balanced XLR Outs, plus balanced Control Room outputs on both XLR and ¼" TRS connectors. A single CAT5 cable from FOH to the stage can receive up to 48 channels of audio input—and deliver all bus outputs, along with 16 individual monitor feeds for BEHRINGER's brand new P16 personal monitoring system.

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DIGITAL MIXER X32

- High-resolution 7" color TFT with associated controls and individual RGB backlit graphic LCD's in every channel

- 25 motorized 100 mm faders, extensive channel strip plus dedicated user-definable control section

- USB flash connector providing file storage for uncompressed recordings plus show presets and system updates

- Connectivity for BEHRINGER's P-16 Personal Monitoring System*, AES/EBU stereo digital output and MIDI

- 6 independent matrix mix buses featuring inserts, 6-band parametric EQ's and dynamics processing

- Adjustable line delays available on all physical in and outputs

- Networked remote control or show setups with remote editor software via USB and Ethernet ports (included)

- Powerful scene management for convenient handling of complex productions

- High-quality components and exceptionally rugged construction ensure long life

- Conceived and designed by BEHRINGER Germany

* Not included AES50 is a trademark of the Audio Engineering Society, NY

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Vital information is just a click away

Thanks to the netbook-resolution, 800x480 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.

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."

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 (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.
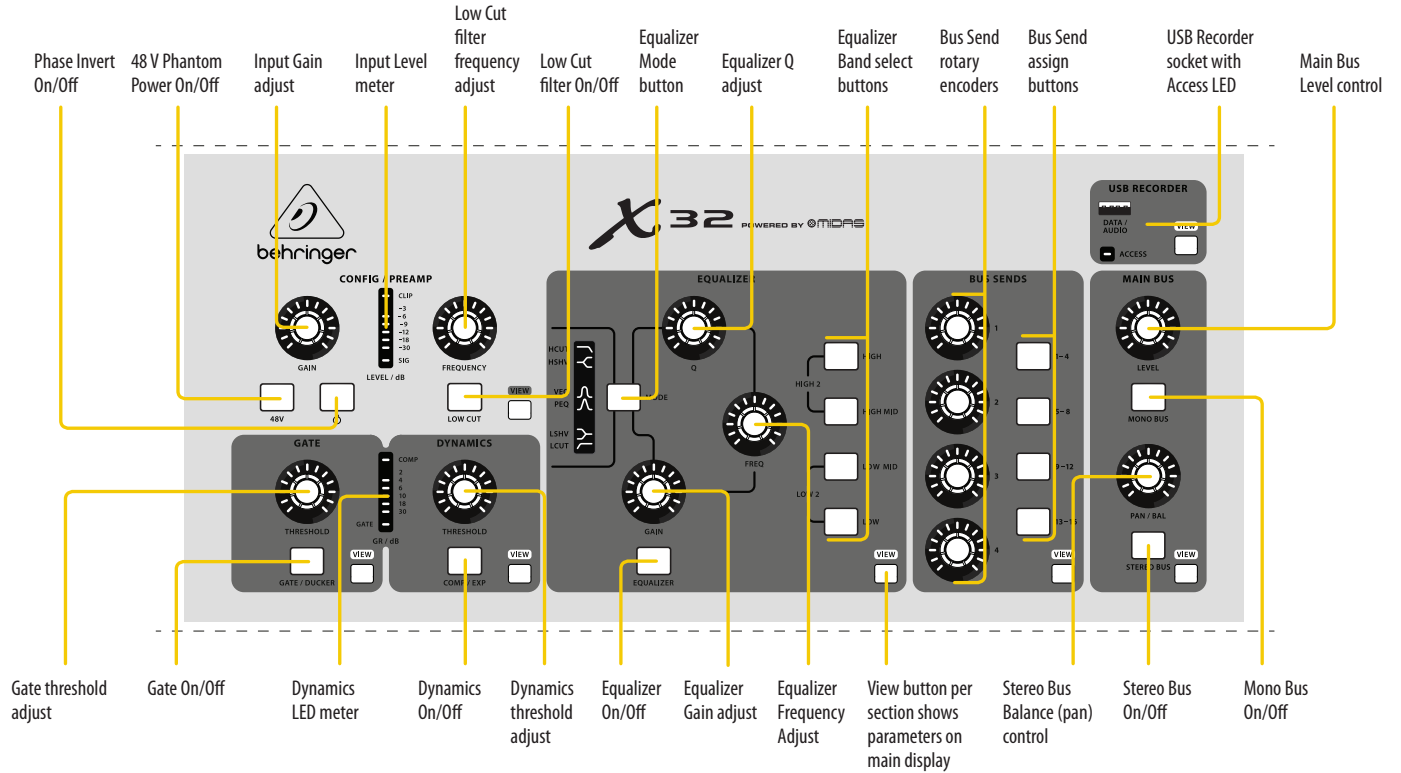
DIGITAL MIXER X32

Bus and rear panel flexibility

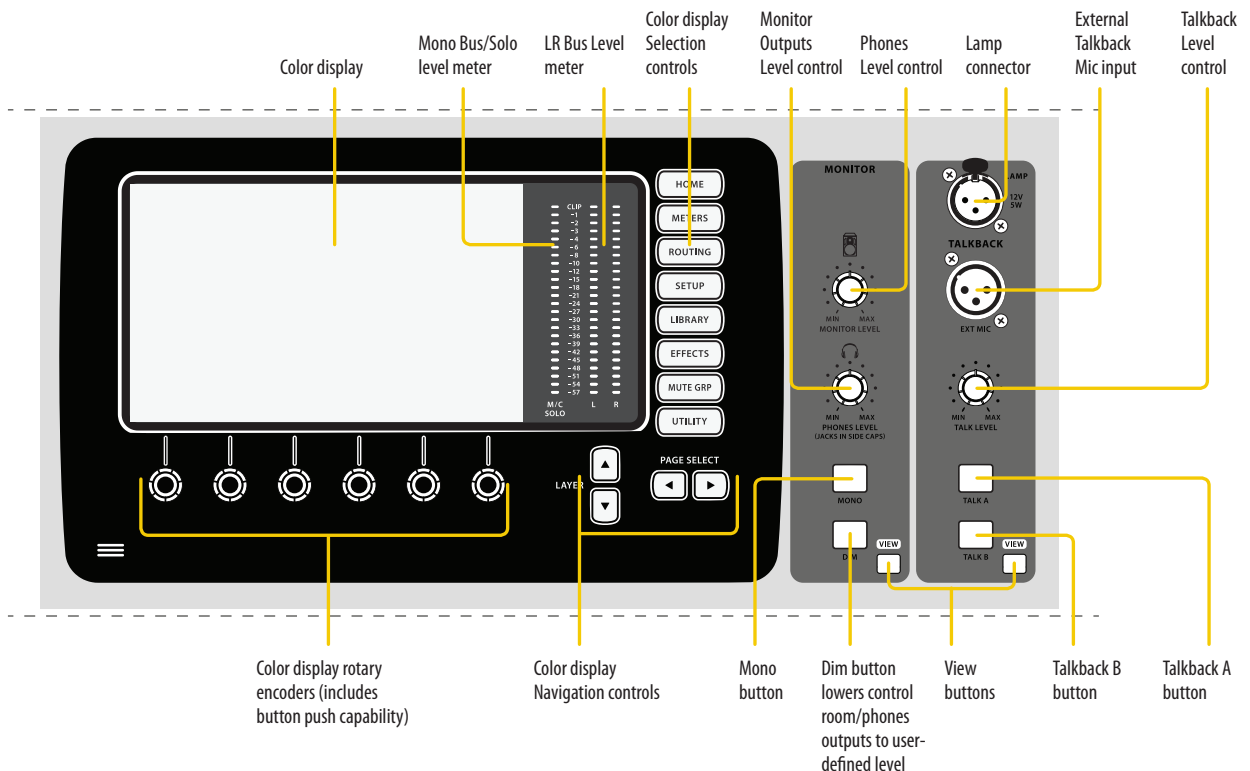X32 provides extensive output connectivity including 16 balanced XLR outputs, six balanced Line I/O on ¼" TRS connectors; dual Phones outputs; Main LCR (Left, Center, Right) buses; 16 mix buses (also configurable as subgroups) with Inserts, 6-band parametric EQ and dynamics processing; plus six independent Matrix Mixes with Inserts, also with 6-band parametric EQ and dynamics processing.

Input Channel Preamp, Dynamics & EQ Panel

Phase Invert On/Off · 48 V Phantom Power On/Off · Input Gain adjust · Input Level meter · Low Cut filter frequency adjust · Low Cut filter On/Off · Equalizer Mode button · Equalizer Q adjust · Equalizer Band select buttons · Bus Send rotary encoders · Bus Send assign buttons · USB Recorder socket with Access LED · Main Bus Level control

Gate threshold adjust · Gate On/Off · Dynamics LED meter · Dynamics On/Off · Dynamics threshold adjust · Equalizer On/Off · Equalizer Gain adjust · Equalizer Frequency Adjust · View button per section shows parameters on main display · Stereo Bus Balance (pan) control · Stereo Bus On/Off · Mono Bus On/Off

Main Display, Monitor & Talkback Panel

Color display · Mono Bus/Solo level meter · LR Bus Level meter · Color display Selection controls · Monitor Outputs Level control · Phones Level control · Lamp connector · External Talkback Mic input · Talkback Level control

Color display rotary encoders (includes button push capability) · Color display Navigation controls · Mono button · Dim button lowers control room/phones outputs to user-defined level · View buttons · Talkback B button · Talkback A button

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The rear panel also sports two AES50* ports, each with KLARK TEKNIK's rock-solid SuperMAC 48-channel I/O networking capability (for addressing a total of 96 inputs and outputs). Stereo digital output and MIDI are also supported, as well as ultra-low jitter, ultra-low latency communication between the X32 and digital snakes, remote stage boxes and outboard recording devices. A convenient top panel USB port is available for recording an uncompressed two-channel "board mix" straight to any standard USB thumb drive or for playing background music.
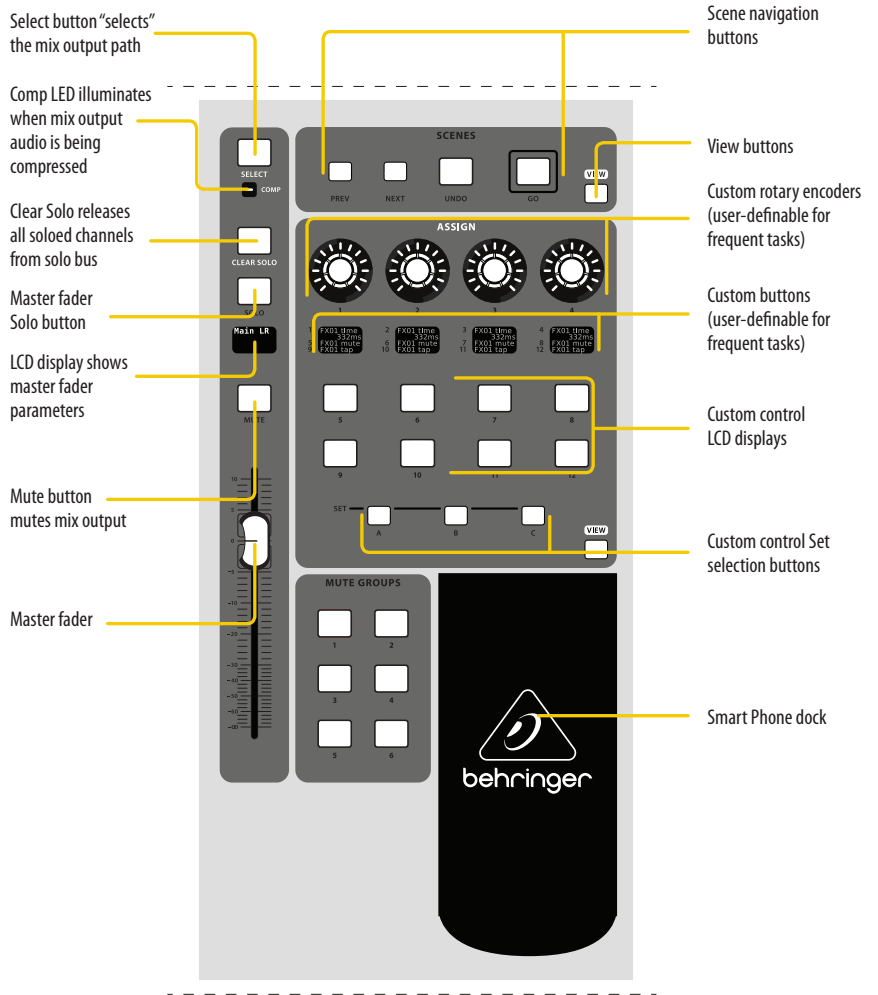
*The AES50 trademark is property of the Audio Engineering Society, NY
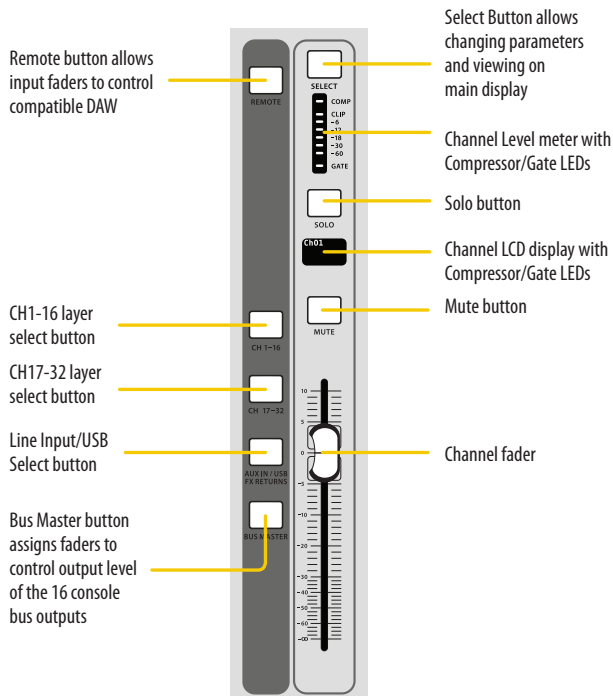
The future is here!

System expansion and connectivity capabilities are provided via an integrated card slot, which allows you to add up to 32 channels of digital audio I/O by way of IEE1394 FireWire, ADAT TOSLINK or USB. It will even support standalone 16-channel uncompressed multi-track recording to an attached USB drive—without requiring a computer!
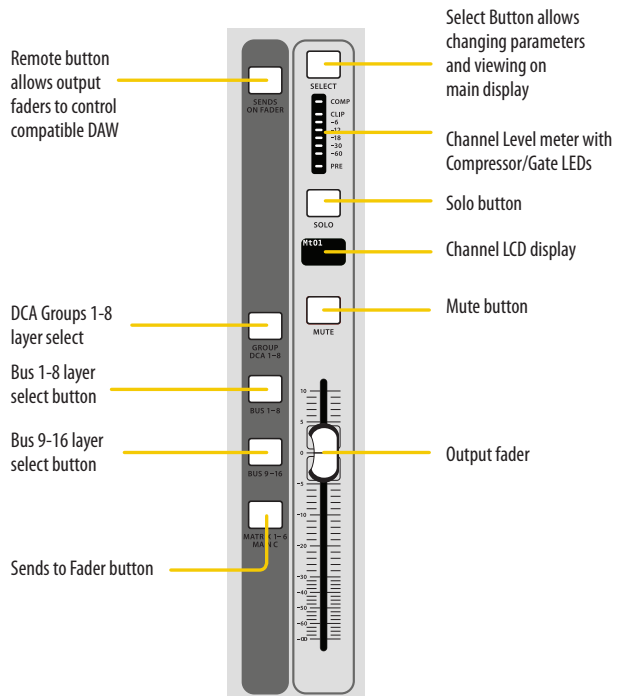
Main Out, Scenes & Custom Control Panel

Select button "selects" the mix output path

Comp LED illuminates when mix output audio is being compressed

Clear Solo releases all soloed channels from solo bus

Master fader Solo button

LCD display shows master fader parameters

Mute button mutes mix output

Master fader

Scene navigation buttons

View buttons

Custom rotary encoders (user-definable for frequent tasks)

Custom buttons (user-definable for frequent tasks)

Custom control LCD displays

Custom control Set selection buttons

Smart Phone dock

Input Channel Strip

Remote button allows input faders to control compatible DAW

Select Button allows changing parameters and viewing on main display

Channel Level meter with Compressor/Gate LEDs

Solo button

Channel LCD display with Compressor/Gate LEDs

Mute button

CH1-16 layer select button

CH17-32 layer select button

Line Input/USB Select button

Bus Master button assigns faders to control output level of the 16 console bus outputs

Channel fader

Output Channel Strip

Remote button allows output faders to control compatible DAW

Select Button allows changing parameters and viewing on main display

Channel Level meter with Compressor/Gate LEDs

Solo button

Channel LCD display

Mute button

DCA Groups 1-8 layer select

Bus 1-8 layer select button

Bus 9-16 layer select button
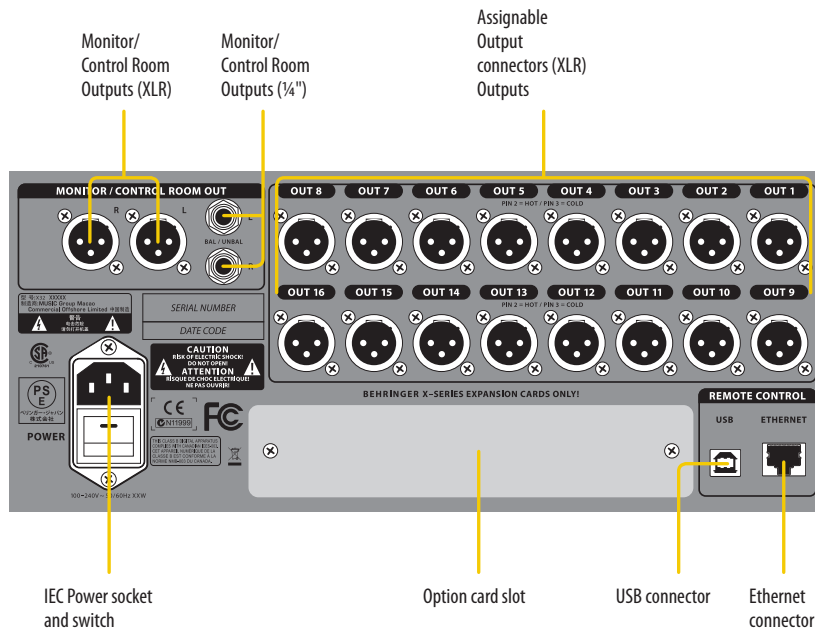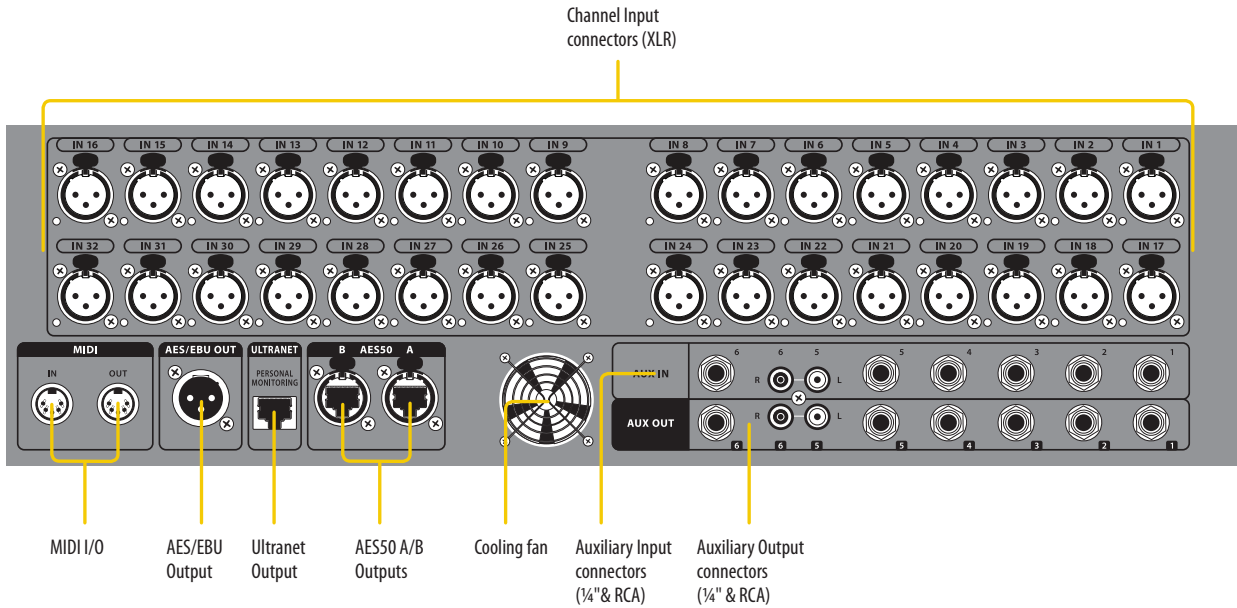
Sends to Fader button

Output fader

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Digital mixing—analog price

The BEHRINGER X32 digital mixing console sets a new benchmark for live sound mixing along with unprecedented value. BEHRINGER is proud to offer 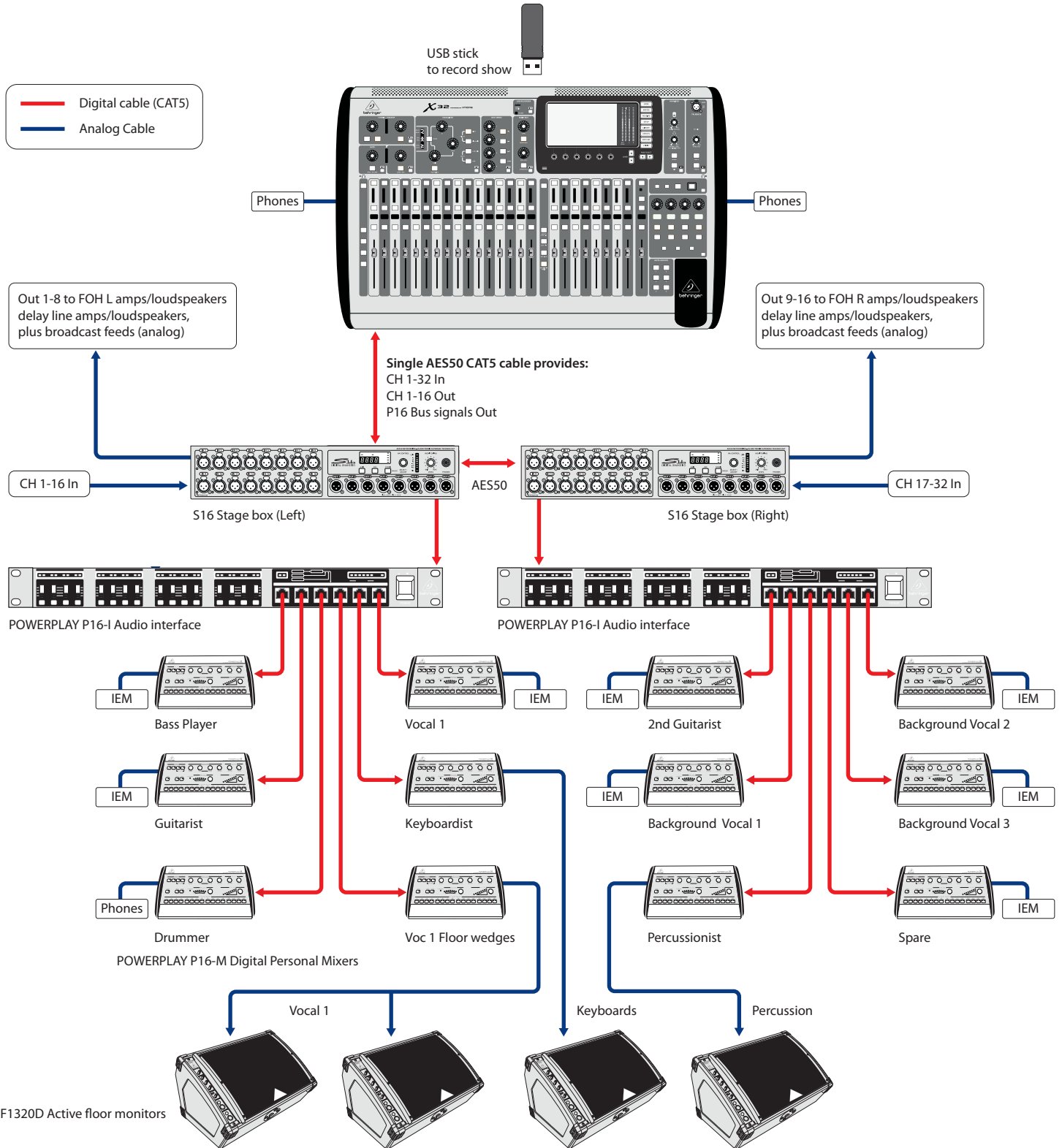the full-featured X32 digital mixing console with its large input and output channel count, comprehensive processing, flexible expansion options and intuitive user interface—all at a price point that has the competition shaking in their boots!
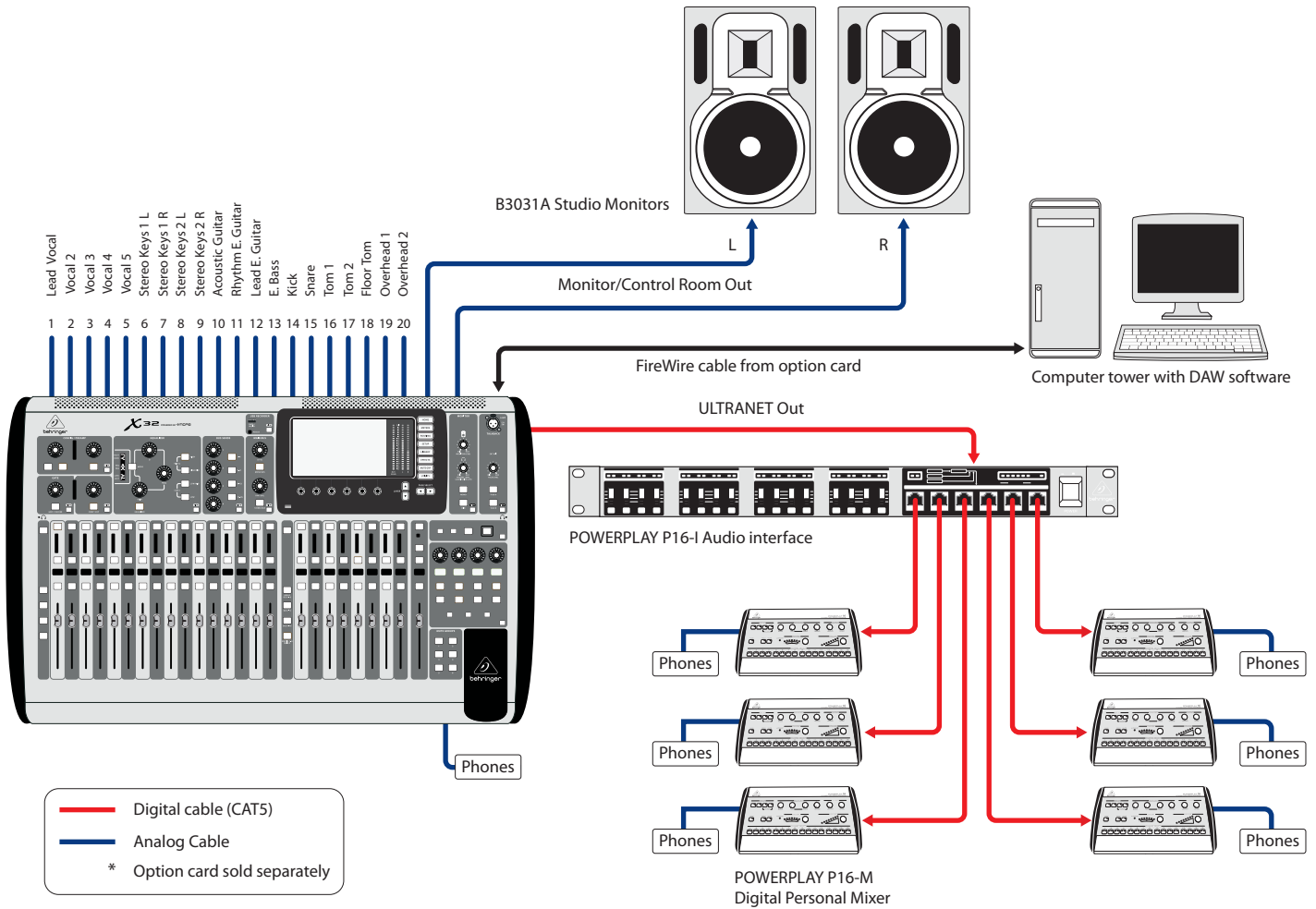
Rear Panel Input Patchbay

Channel Input connectors (XLR)

MIDI I/O
AES/EBU Output
Ultranet Output
AES50 A/B Outputs
Cooling fan
Auxiliary Input connectors (¼"& RCA)
Auxiliary Output connectors (¼" & RCA)

Monitor/ Control Room Outputs (XLR)
Monitor/ Control Room Outputs (¼")
Assignable Output connectors (XLR) Outputs

IEC Power socket and switch
Option card slot
USB connector
Ethernet connector

DIGITAL MIXER X32

X32 Live Performance Setup with S16 and P16 Monitor System

USB stick
to record show

— Digital cable (CAT5)
— Analog Cable

Phones

Phones

Out 1-8 to FOH L amps/loudspeakers
delay line amps/loudspeakers,
plus broadcast feeds (analog)

Out 9-16 to FOH R amps/loudspeakers
delay line amps/loudspeakers,
plus broadcast feeds (analog)

Single AES50 CAT5 cable provides:
CH 1-32 In
CH 1-16 Out
P16 Bus signals Out

CH 1-16 In

AES50

CH 17-32 In

S16 Stage box (Left)

S16 Stage box (Right)

POWERPLAY P16-I Audio interface

POWERPLAY P16-I Audio interface

IEM
Bass Player

IEM
Vocal 1

IEM
2nd Guitarist

IEM
Background Vocal 2

IEM
Guitarist

Keyboardist

IEM
Background Vocal 1

IEM
Background Vocal 3

Phones
Drummer

Voc 1 Floor wedges

Percussionist

IEM
Spare

POWERPLAY P16-M Digital Personal Mixers

Vocal 1

Keyboards

Percussion

F1320D Active floor monitors

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X32 Recording Studio Setup (Option Card* Installed)

B3031A Studio Monitors

Monitor/Control Room Out

FireWire cable from option card

Computer tower with DAW software

ULTRANET Out

POWERPLAY P16-I Audio interface

Phones

Phones

Phones

Phones

Phones

Phones

POWERPLAY P16-M
Digital Personal Mixer

Lead Vocal — 1
Vocal 2 — 2
Vocal 3 — 3
Vocal 4 — 4
Vocal 5 — 5
Stereo Keys 1 L — 6
Stereo Keys 1 R — 7
Stereo Keys 2 L — 8
Stereo Keys 2 R — 9
Acoustic Guitar — 10
Rhythm E. Guitar — 11
Lead E. Guitar — 12
E. Bass — 13
Kick — 14
Snare — 15
Tom 1 — 16
Tom 2 — 17
Floor Tom — 18
Overhead 1 — 19
Overhead 2 — 20

Phones

	Digital cable (CAT5)
	Analog Cable
*	Option card sold separately

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