Compact 40-Input, 25-Bus Digital Mixing Console with 16 Programmable MIDAS Preamps, 17 Motorized Faders, Channel LCD’s, 32-Channel Audio Interface and iPad/iPhone* Remote Control

- Compact 40-input channel, 25-bus digital mixing console for Studio and Live application
- 16 MIDAS-designed, fully programmable mic preamps for audiophile sound quality
- 17 Fully automated motorized 100 mm faders allow for instant overview, powerful scene management and DAW control
- 8 XLR outputs plus 6 additional line in/outports, 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 USB 2.0 audio interface, 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 all 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.

X32 COMPACT
 Compact 40-Input Channel, 25-Bus Digital Mixing Console with 16 Programmable MIDAS Preamps, 17 Motorized Faders, Channel LCD’s, FireWire*/USB Audio Interface and iPad/iPhone* Remote Control

Lean Mean Mixing Machine
 What happened to the X32? It’s there… just a little bit smaller. The X32 COMPACT delivers the best of the flagship X32 console in a slightly smaller package for installs at smaller venues, houses of worship, theaters or discerning audiosmiths who may not need as many local inputs or motorized faders.

Powered by MIDAS & KLARK TEKNIK
 When we began development on the X32 COMPACT, 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 COMPACT 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 COMPACT is an amazingly clean amalgam of high technology merged with superb user-friendly features.

We also received brilliant support from MIDAS and KLARK TEKNIK in designing X32 COMPACT’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 COMPACT 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.

You’re Well Connected
 Ultimate connectivity remains the battle cry of the X32 COMPACT with its 40 inputs, 25 buses, 16 programmable MIDAS-designed mic preamps, FireWire* and USB 2.0 recording capability. Not sure which X32 is right for you? We totally get it. That’s why the entire X32 family is designed to be beautifully scalable through the powerful AES50 ports built right in. Connect the powerhouse S16 digital snakes to these inputs to add an additional 16 mic preamps to your setup.

Travel Light… Travel Far
 Need another X32 for side of stage or the broadcast control booth? X32 COMPACT packs all the features with the same great 7” TFT screen and customizable LCD scribble strip so you can take on the world of sound with all the firepower you’ll ever need – without hauling a world of outboard gear and analog snake cables.
Input Channel Preamp, Dynamics & EQ Panel

- Talkback mic A and B controls
- Low Cut filter frequency adjust
- Gate threshold adjust
- Dynamics LED meter
- Equalizer Q adjust
- Equalizer Frequency adjust
- +48 V Phantom Power On/Off
- Power On/Off
- Gate On/Off
- Dynamics threshold adjust
- Gate threshold adjust
- Dim button lowers control room/phones outputs to user defined levels
- USB recorder socket with Access LED
- Equalizer mode indicator
- Main Bus Level control
- Equalizer Gain adjust
- Equalizer Band select buttons
- Equalizer On/Off
- Stereo Bus Balance (pan) control
- Stereo Bus On/Off
- View button per section shows parameters on main display
- Compressor On/Off
- Input Level meter
- Input Gain adjust
- Phase Invert On/Off
- Main Bus Level meter
- Equalizer
- Monitor level control
- Phones Level control
- Primary and secondary drivers
- Main Display

Main Display

- Color display
- Mono Bus/Solo level meter
- LR Bus level meter
- TUT display selection buttons
- TFT display
- TFT display navigation controls
- TFT display rotary encoders (include button push capability)

40-Bit floating-point DSP features "unlimited" dynamic range with no internal overload and near-zero overall latency (0.8 msec)

Powerful scene management for convenient handling of complex productions

48-channel Digital Snake ready** via dual 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 to set up short-cuts to your favorite views or 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 Germany

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** P16 Personal Monitoring System and Digital Snake are not included.
Input Channel Strip

- Select button allows changing parameters and viewing on main display
- Channel Level meter with Compressor/Gate LEDs
- Solo button
- Mute button
- Channel fader
- Channel LCD display

Output Channel Strip

- Select button allows changing parameters on a viewing on main display
- DAW Remote button activates MIDI control of software parameters
- Solo button
- Buses/Groups Sends-on-Faders button allows bus faders to control selected channel send levels
- DCA Groups 1-8 layer select
- Group/Bus Level meter with Compressor and Pre-fader status LEDs
- Channel LCD display
- Mute button
- Bus 1-8 layer select button
- Matrix 1-6, Main C select button
- Output fader

Rear Panel Input Patchbay

- Lamp connector
- External Talkback Mic input
- Monitor/Control Room Outputs
- Auxiliary Input connectors (¼" and RCA)
- Assignable Output connectors (XLR)
- Channel Input connectors (XLR)
- IEC Power socket and switch
- Option card and slot
- USB connector
- Ethernet connector
- MIDI I/O
- AES/EBU Output
- ULTRANET output
- AES50 A/B Bi-Directional Ports
X32 COMPACT Setup with S16 and P16 Monitor System

USB stick to record show

Digital Cable (CAT5)

Analog Cable

Ch 1-16 In

CH17-32 In

AES50

Out 1-16P16 Bus signals Out

P16 Bus signals Out

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

S16 Stage box (Left)

S16 Stage box (Right)

P16-D Distributor

AES50

Ch 1-32 In

Vocal 1 Floor wedges

Vocal 1

Powerline P16-M Digital Personal Mixers

Voc 1 Floor wedges

IEM

Bass Player

Guitarist

Drummer

Keyboards

Percussionist

POWERPLAY P16-M Digital Personal Mixers

Vocal 1

Phones

IEM

比我

IEM

IEM

IEM

IEM

IEM

IEM

IEM

IEM

IEM

Spare

2nd Guitarist

Background Vocal 1

Background Vocal 2

Background Vocal 3

F1320D Active floor monitors
X32 COMPACT Recording Studio Setup

Control Room

- B3031A Studio Monitors
- Computer tower with DAW software
- FireWire/USB cable from XUF interface card
- Monitor/Control Room Out
- Rack Expander
- Outboard FX
- Keys 1
- Keys 2
- Sampler

Recording Room

- DIGITAL MIXER X32 COMPACT
- B3031A Studio Monitors
- DIGITAL SNAKE S16
- AES50 cable
- P16-D Distributor
- POWERPLAY P16-M Personal Monitor Mixers

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

### Connectivity

**XLR inputs, programmeable mic preamps, designed by MIDAS**
- 16

**Talkback mic input, XLR**
- 1 external (plus internal mic)

**RCA inputs/outputs**
- 2/2

**XLR outputs**
- 8

**Monitoring outputs**
- 1/2 TRS balanced
- 2

**Aux inputs/outputs, 1/4" TRS balanced**
- 6/6

**Phones outputs, 1/4" TRS**
- 2 (stereo)

**Digital AES/EBU output, XLR**
- 1

**AES50 ports, SuperMAC**
- 2

**Expansion card slot**
- 32 channel audio input/output, various standards

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### Mic Input Characteristics

**Preamp design**
- MIDAS

**THD + noise, 20 dB gain, 0 dBu out**
- <0.006% A-weighted

**Input impedance XLR jack, unbal./bal.**
- 5 kΩ / 10 kΩ

**Non clip maximum impedence level, XLR**
- +23 dBu

**Phantom power, switchable**
- 48 V

**Equivalent input noise level, XLR (input shorted)**
- -128 dB

**CMRR, XLR, 0 dB gain**
- > 70 dB (typical)

**CMRR, XLR, 40 dB gain**
- > 80 dB

### Frequency range, @48 kHz sample rate, 0 dB to -1 dB
- 10 Hz - 22 kHz

### Dynamic range, analog input to analog output (typical)
- 106 dB

### A/D dynamic range, preamp to converter (typical)
- 109 dB

### D/A dynamic range, converter and output
- 108 dB

### Cross talk rejection @ 1 kHz, adjacent channels
- 100 dB

**Input 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)

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### Power

**Switch-mode power supply**
- Autorange 100-240 V (50/60 Hz)

**Power consumption**
- 120 W

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### Physical

**Standard operating temperature range**
- 5°C – 40°C (41°F – 104°F)

**Dimensions**
- 215 x 625 x 510 mm (8.5 x 24.6 x 20")

**Weight**
- 15.4 kg (33.9 lbs)

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### Display

**Main screen**
- 7", 800 x 480, 262k color TFT

**Channel LCD screen (17 pcs)**
- 128 x 64, LCD with RGB color backlight

**Main meter**
- 24-segment (-37 dB to clip)

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