**40-Input, 25-Bus Digital Rack Mixer with 16 Programmable MIDAS Preamps, FireWire*/USB Audio Interface and iPad/iPhone* Remote Control**

- 40-input channel, 25-bus, 3U rack-mountable digital mixer for live and installed sound application
- 16 MIDAS-designed, fully programmable mic preamps for audiophile sound quality
- 8 XLR outputs plus 6 additional line in/outputs, phones connector and a talkback section with integrated or external mic
- 32 x 32 channel USB 2.0 audio interface
- iPad* and iPhone* apps for professional remote operation available free of charge—no host PC required
- High-resolution 5” 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.
- 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

**40-Input Channel, 25-Bus Digital Rack Mixer with 16 Programmable MIDAS Preamps, FireWire*/USB Audio Interface and iPad/iPhone* Remote Control**

It can be your top-notch studio recording interface today, control a complex theatre production tomorrow, or sit securely in your side-rack while you’re mixing your band’s club gig from your iPad. The X32 RACK is a revolutionary new product genre that combines finest analog I/O and powerful digital connectivity, with ample processing for 40 channels, 25 buses and up to 152 signal sources.

While every parameter of your mix can be adjusted directly on the X32 RACK through its 800 x 480 graphic UI, networked remote control literally makes room for new possibilities. Several instances of our XControl PC/Mac application, XiControl app for iPad/iPad mini and XiQ app for iPhone/iPod touch allow controlling the mix from exactly the place you find most suitable.

**16 MIDAS-design mic preamps provide plenty of inputs—and with its dual AES50 ports, X32 RACK can support up to six S16 digital snakes for massive I/O connectivity.**

8 powerful stereo FX engines coupled with ultra-flexible routing options make the X32 RACK the ideal choice for handling audio now—and as your needs grow.
USB type-A connector providing file storage and uncompressed stereo recordings plus show presets and system updates

ULTRANET connectivity for BEHRINGER's P-16 Personal Monitoring System**

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

MIDI In/Out for remote scene recall or controlling other MIDI equipment

Future firmware updates, incl. new FX “Plug Ins”, downloadable from behringer.com free of charge

Conceived and designed by BEHRINGER Germany

*FireWire, Mac, iPod touch, iPhone, iPad, and iPad mini are trademarks of Apple Inc., registered in the U.S. and other countries. The AES50 trademark is a property of the Audio Engineering Society, NY. All trademarks, including, but not limited to Lexicon, PCM, EMT, Quaunec and QRS are trademarks or registered trademarks of their respective owners. Their use neither constitutes a claim of the trademark nor affiliation of the trademark owners with MUSIC Group. Product names are mentioned solely as a reference for X32 RACK compatibility and effects.

**P16 Personal Monitoring System and Digital Snake are not included.
**X32 RACK Live Performance Setup with S16 and P16 Monitor System**

**P16-D Distributor**

- Out 1-8 to FOH Lamps/loudspeakers delay line amps/loudspeakers, plus broadcast feeds (analog)
- Out 9-16 to FOH R lamps/loudspeakers delay line amps/loudspeakers, plus broadcast feeds (analog)

**S16 Stage box (Left)**

- AES50 CH 1-32 In
- AES50 Out 1-16
- P16 Bus signals Out

**S16 Stage box (Right)**

- AES50
- CH 17-32 In
- CH 1-16 In

**P16 Stage Box**

- CH 17-32 In
- P16 Bus signals Out

**Digital Cable (CAT5)**

- AES50
- AES50
- AES50
- AES50

**Analog Cable**

- P16-D Distributor
- P16-D Distributor

- Bass Player
- Guitarist
- Keyboardist
- Drummer
- Voc 1 Floor wedges
- Vocal 1

- IEM
- IEM
- IEM
- IEM
- IEM
- IEM

- Powerplay P16-M Digital Personal Mixers

- Phones

- Percussionist
- Keyboards
- Percussion

- Background Vocal 1
- Background Vocal 2
- Background Vocal 3

- Spare

- F1320D Active floor monitors
X32 RACK Recording Studio Setup

**Control Room**
- B3031A Studio Monitors
- Computer tower with DAW software
- FireWire/USB cable from XUF interface card
- Monitor/Control Room Out
- Keys 1, 2
- Rack Expander
- Outboard FX
- AES50 cable

**Recording Room**
- B3031A Studio Monitors
- DIGITAL SNAKE S16
- AES50 cable
- P16-D Distributor
- Personal Monitor Mixers
- Phones
- POWERPLAY P16-M

**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

<table>
<thead>
<tr>
<th>Number of processing channels</th>
<th>32 input channels, 8 aux in channels, 8 FX return channels, 16 buses, 6 matrices, main LRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal effects engines, true-stereo / mono</td>
<td>8 / 16</td>
</tr>
<tr>
<td>Internal total recall scenes (incl. preamp and fader)</td>
<td>100</td>
</tr>
<tr>
<td>Signal processing</td>
<td>40-bit floating point</td>
</tr>
<tr>
<td>A/D-D/A conversion (Cirrus Logic A/D CS5368, D/A CS4385)</td>
<td>24-bit @ 44.1 / 48 kHz, 114 dB dynamic range</td>
</tr>
<tr>
<td>Local I/O latency (local in &gt; console processing &gt; local out)</td>
<td>0.8 ms</td>
</tr>
<tr>
<td>Networked I/O latency (stagebox in &gt; console processing &gt; stagebox out)</td>
<td>1.1 ms</td>
</tr>
<tr>
<td>Total number of accessible input sources / outputs</td>
<td>150 / 158</td>
</tr>
</tbody>
</table>

### Connectors

| XLR inputs, programmable mic preamps, designed by MIDAS | 16 |
| Talkback mic input, XLR | 1 ext. (no internal mic) |
| RCA inputs/outputs | 2/2 |
| XLR outputs | 8 |
| Monitoring outputs, 1/4" TRS balanced | 2 |
| Aux inputs/outputs, 1/4" TRS, balanced | 6/6 |
| Phones outputs, 1/4" TRS | 1 stereo (in front panel) |
| Digital AES/EBU output, XLR | — |
| AES3 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 |

### Mic Input Characteristics

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

### 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, nominal / 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 | 5", 800x480, 262k color TFT |

### Physical

| Dimensions | 1.9 x 1.13 x 0.52" |
| Weight | 48.3 x 28.7 x 13.2 mm |

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

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