

# 1832FX

## Technical Specifications



Version 1.0 January 2006



# XENYX

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## XENYX 1832FX

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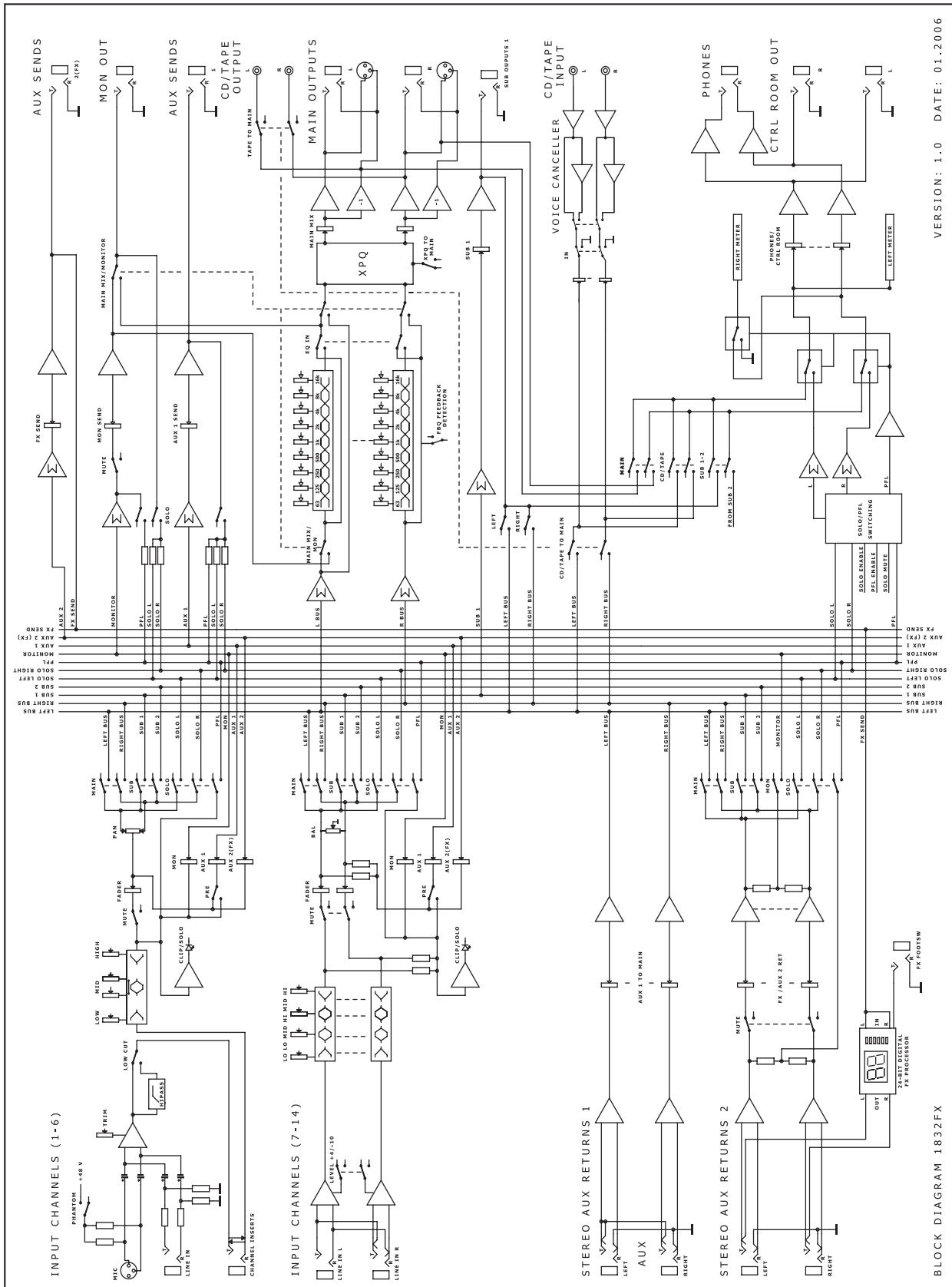
### Premium 18-Input 3/2-Bus Mixer with XENYX Mic Preamps, British EQs, 24-Bit Multi-FX Processor and USB/Audio Interface



- ▲ Premium ultra low-noise, high headroom analog mixer
- ▲ 6 state-of-the-art XENYX Mic Preamps comparable to stand-alone boutique preamps
- ▲ Neo-classic 'British' 3-band EQs with semi-parametric mid band for warm and musical sound
- ▲ Studio-grade 24-bit stereo FX processor with 100 awesome presets including reverb, chorus, flanger, delay, pitch shifter and various multi-effects
- ▲ USB/Audio Interface included to connect directly to your computer. Free audio recording and editing software downloadable at [www.behringer.com](http://www.behringer.com)
- ▲ 9-band stereo graphic EQ allows precise frequency correction of monitor or main mixes
- ▲ Revolutionary FBQ Feedback Detection System instantly reveals critical frequencies
- ▲ Breathtaking XPQ 3D stereo surround effect for more vitality and enhanced stereo image
- ▲ Voice Canceller function for easy-to-use sing-along applications
- ▲ Channel inserts on each mono channel for flexible connection of outboard equipment
- ▲ 3 aux sends per channel: 1 pre fader for monitoring, 1 pre/post fader switchable for monitoring/FX applications, 1 post fader (for internal FX or as external send)
- ▲ Peak LEDs, mute, main mix and subgroup routing switches, solo and PFL functions on all channels
- ▲ 2 subgroups with separate outputs for added routing flexibility and 2 multi-functional stereo aux returns with flexible routing
- ▲ Balanced main mix outputs with 1/4" jack and gold-plated XLR connectors, separate control room, headphones and stereo tape outputs
- ▲ Control room/phones outputs with multi-input source matrix; Tape inputs assignable to main mix or control room/phones outputs
- ▲ High-quality components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany

# XENYX 1832FX

## BLOCK DIAGRAM



VERSION: 1.0 DATE: 01.2006

BLOCK DIAGRAM 1832FX



# XENYX 1832FX

## SPECIFICATIONS

### Microphone inputs (XENYX Mic Preamp)

|                                  |  |
|----------------------------------|--|
| Type                             | XLR, electronically balanced, discrete input circuit |
| Mic E.I.N. (20 Hz - 20 kHz)      |  |
| @ 0 $\Omega$ source resistance   | -134 dB / 135.7 dB A-weighted                        |
| @ 50 $\Omega$ source resistance  | -131 dB / 133.3 dB A-weighted                        |
| @ 150 $\Omega$ source resistance | -129 dB / 130.5 dB A-weighted                        |

|                    |   |
|--------------------|---|
| Frequency response | <10 Hz - 150 kHz (-1 dB),<br><10 Hz - 200 kHz (-3 dB) |
|--------------------|---|

|                       |  |
|-----------------------|--|
| Gain range            | +10 to +60 dB  |
| Max. input level      | +12 dBu @ +10 dB Gain                                  |
| Impedance             | approx. 2.6 k $\Omega$ balanced                        |
| Signal-to-noise ratio | 110 dB / 112 dB A-weighted<br>(0 dBu In @ +22 dB gain) |

|                    |                            |
|--------------------|----------------------------|
| Distortion (THD+N) | 0.005% / 0.004% A-weighted |
|--------------------|----------------------------|

### Line input

|                  |  |
|------------------|--|
| Type             | 1/4" TRS connector<br>electronically balanced              |
| Impedance        | approx. 20 k $\Omega$ balanced<br>10 k $\Omega$ unbalanced |
| Gain range       | -10 to +40 dB  |
| Max. input level | +22 dBu @ 0 dB Gain  |

### Fade-out attenuation<sup>1</sup> (Crosstalk attenuation)

|                      |       |
|----------------------|-------|
| Main fader closed    | 90 dB |
| Channel muted        | 89 dB |
| Channel fader closed | 89 dB |

### Frequency response

|                              |               |
|------------------------------|---------------|
| Microphone input to main out |               |
| <10 Hz - 90 kHz              | +0 dB / -1 dB |
| <10 Hz - 160 kHz             | +0 dB / -3 dB |

### Stereo inputs

|                  |  |
|------------------|--|
| Type             | 1/4" TRS connector,<br>electronically balanced |
| Impedance        | approx. 20 k $\Omega$                          |
| Max. input level | +22 dBu  |

### EQ mono channels

|      |                              |
|------|------------------------------|
| Low  | 80 Hz / $\pm 15$ dB          |
| Mid  | 100 Hz - 8 kHz / $\pm 15$ dB |
| High | 12 kHz / $\pm 15$ dB         |

### EQ stereo channels

|          |                      |
|----------|----------------------|
| Low      | 80 Hz / $\pm 15$ dB  |
| Low Mid  | 500 Hz / $\pm 15$ dB |
| High Mid | 3 kHz / $\pm 15$ dB  |
| High     | 12 kHz / $\pm 15$ dB |

### Aux sends

|                   |                               |
|-------------------|-------------------------------|
| Type              | 1/4" TS connector, unbalanced |
| Impedance         | approx. 120 $\Omega$          |
| Max. output level | +22 dBu                       |

### Stereo aux returns

|                  |   |
|------------------|---|
| Type             | 1/4" TRS connector,<br>electronically balanced    |
| Impedance        | approx. 20 k $\Omega$ bal. / 10 k $\Omega$ unbal. |
| Max. input level | +22 dBu   |

### Main outputs

|                   |  |
|-------------------|--|
| Type              | XLR, electronically balanced<br>and 1/4" TRS balanced      |
| Impedance         | approx. 240 $\Omega$ balanced /<br>120 $\Omega$ unbalanced |
| Max. output level | +28 dBu  |

### Control room outputs

|                   |                              |
|-------------------|------------------------------|
| Type              | 1/4" TS connector unbalanced |
| Impedance         | approx. 120 $\Omega$         |
| Max. output level | +22 dBu                      |

### Headphones outputs

|                   |                                  |
|-------------------|----------------------------------|
| Type              | 1/4" TRS connector, unbalanced   |
| Max. output level | +19 dBu / 150 $\Omega$ (+25 dBm) |

### DSP

|               |  |
|---------------|--|
| Converter     | 24-bit<br>24-bit Sigma-Delta,<br>64/128-times oversampling |
| Sampling rate | 40 kHz   |

### Main mix system data<sup>2</sup>

|                            |         |
|----------------------------|---------|
| Noise                      |         |
| Main mix @ - $\infty$      |         |
| Channel fader @ - $\infty$ | -101 dB |
| Main mix @ 0 dB,           |         |
| Channel fader @ - $\infty$ | -93 dB  |
| Main mix @ 0 dB,           |         |
| Channel fader @ 0 dB       | -81 dB  |

### Power supply

|                   |                               |
|-------------------|-------------------------------|
| Mains voltage     | 100 to 240 V~, 50/60 Hz       |
| Power consumption | 43 W                          |
| Fuse              | 100 - 240 V~: T 1.6 A H 250 V |
| Mains connection  | Standard IEC receptacle       |

### Physical/weight

|                        |   |
|------------------------|---|
| Dimensions (H x W x D) | approx. 3 7/8" x 16 1/16" x 14 1/16"<br>(97 mm x 408 mm x 367 mm) |
| Weight (net)           | approx. 4.7 kg  |

### Measuring conditions:

- 1 kHz rel. to 0 dBu; 20 Hz - 20 kHz; line input; main output; unity gain.
- 20 Hz - 20kHz; measured at main output. Channels 1 - 4 unity gain, EQ flat; all channels on main mix; channels 1/3 as far left as possible, channels 2/4 as far right as possible. Reference = +6 dBu.

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