

Behringer WING Digital Mixer

Specifications

Processing

- **Input Processing Channels:** 40 x stereo input channels, 8 x stereo aux channels
- **Output Processing Channels:** 16 x stereo aux buses, 8 x stereo matrices, 4 x stereo mains
- **Internal Effects Engines:** 8 x premium FX, 8 x standard FX (all true stereo)
- **Point-to-Point Routing Matrix:** 500 x 502 signals
- **Signal Processing:** 40-bit floating point, 48kHz
- **A/D Converters:** 114dB dynamic range (8-channel, 192kHz-ready, 24-bit)
- **D/A Converters:** 120dB dynamic range (stereo, 192kHz-ready, 24-bit)
- **I/O Latency:** 1.0ms (console input to output)
- **Network Latency:** 1.2ms (stage box in > console > stage box out)

Connectors

- **Midas PRO Series Mic Preamps:** 8 (XLR)
- **XLR Balanced Outputs:** 8
- **Aux Inputs/Outputs:** 8 IN / 6 OUT + 2 monitor/headphones outs (1/4" TRS balanced, mono)
- **Headphones Output:** 2 (1/4" TRS, stereo)
- **Digital AES/EBU Input/Output:** 1/1 (XLR)
- **AES50 Ports:** 3 (Klark Teknik SuperMAC, 100MB/s)
- **Expansion Card Interface:** 64 x 64 channel input/output
- **StageCONNECT Master I/O:** 1 (12V/18W power supplied, XLR, 32 channels)
- **MIDI Inputs/Outputs:** 1/1
- **GPIO on TRS:** 2 x 2 (configurable)
- **USB 2.0 Type B Device:** 1 (48 x 48 channel 24-bit audio and MIDI I/O)
- **USB 2.0 Type A Host:** 1 (audio and data, 5VDC, 1A)
- **Ethernet LAN Ports:** 2, internally switched (RJ45, 1GB/s)
- **Audio over IP Internal Module Socket:** Up to 64 x 64 channels at 48kHz (Dante, AES67 or SoundGrid modules optional)
- **IEC Mains Socket with Power Switch:** 1

Mic Input Characteristics (Mic Input to Analog Output)

- **Design:** Midas PRO series
- **THD+N**
 - **0dB Gain, 0dBu Output:** Less than 0.004-percent
 - **+40dB Gain, 0dBu to +20dBu Output:** Less than 0.006-percent
- **Input Impedance:** 1 k Ohm / 2 k Ohms (unbalanced / balanced)
- **Non-Clip Maximum Input Level:** +21dBu
- **Phantom Power:** +48V (switchable per input)
- **Equivalent Input Noise:** -128dBu (at +45dB gain, 150 Ohm source)
- **CMRR:**
 - **At Unity Gain:** Greater than 50dB (typical)
 - **At 40dB Gain:** Greater than 70dB (typical)

Input/Output Characteristics

- **Frequency Response:** 10Hz - 20kHz (at 48kHz sample rate, 0 to -1dB (any gain setting))

- **Dynamic Range:** 11dB (XLR) / 108dB (aux) (analog into analog out, typical)
- **A/D Dynamic Range:** 112dB (XLR) / 110dB (aux) (preamplifier and converter, typical)
- **D/A Dynamic Range:** 118dB (XLR) / 112dB (aux) (converter and output, typical)
- **Crosstalk Rejection:** 100dB (at 1kHz, adjacent channels)
- **Output Level:** +4dBu (nominal) / +21dBu (maximum) (XLR connectors)
- **Output Impedance:** 75 Ohms (balanced/unbalanced, XLR connectors)
- **Input Impedance:** 20 k Ohms (balanced) / 40 k Ohms (unbalanced) (TRS connectors)
- **Non-Clip Maximum Input Level:** +16dBu (TRS connectors)
- **Aux Output Level:** +4dBu (nominal) / +16dBu (maximum) (TRS)
- **Aux Output Impedance:** 150 Ohms (unbalanced) / 300 Ohms (balanced) (TRS)
- **Headphones Output Impedance:** 500mW at 75 Ohms (+18dBu maximum output level)
- **Residual Noise Level:**
 - **XLR Out 1-16 Connectors, Unity Gain:** -97dBu
 - **Aux and Monitor TRS Out Connectors:** -95dBu

Displays

- **Main Screen:** 10.1" TFT LCD, 1280 x 800 px, capacitive touch
- **Main Screen Swivel:** 15° - 60° (continuous adjustment)
- **4-Channel LCD Screen:** 320 x 48 monochrome (with RGB colour strip per channel)
- **Channel Editing Screen:** 2.4" TFT LCD, 320 x 240 px
- **Main Stereo Meter:** 18 segment (-60dB to clip)

Controls

- **100mm Motorised Faders:** 12 + 8 + 4
- **Touch Sensitive Rotary Controls:** 3 + 7 + 11 + 4 + 4
- **Custom Controls:**
 - **Fully Assignable Rotary Controls:** 4
 - **Fully Assignable Backlit Buttons:** 8 + 8
 - **Variable Rotary Controls / Buttons:** 4 / 4

Power and Physical Specifications

- **Power Supply:** Switch mode, auto-ranging 100-240VAC (50/60Hz)
- **Power Consumption:** 130W
- **Dimensions:** 201mm x 870mm x 575mm / 7.9" x 34.3" x 22.6" (H x W x D)
- **Weight:** 24kg / 52.8lbs