

M&W • D32 32-channel Digital Mixer

Introducing the first practical evolution of the 32-channel digital mixer.

With thirty-two of Peter Watts' sonorous new Lyric™ mic preamps, a generous 15.6-inch capacitive touch screen, and dozens of features simply not possible with physical moving faders, the D32 is unique among digital mixers. The I/O section is detachable (and rack mountable) as a Stage Box that can be as far as 450 feet from the Control/screen section.

- Sixteen 100mm touch-sensitive electronic faders on 15.6" capacitive touch screen
- Thirty-two Lyric™ preamps by Peter Watts
- I/O section of D32 is detachable to form a rack-mountable Stage Box that can be positioned up to 450 feet away
- Channel strips displays 10 key parameters
- Three Alternate mixes
- Matrix Mixer
- BigChannels have Compression/Limiting, Gate, Parametric EQ, Effects, and more
- 28-band Graphic EQ & Real Time Analyzer
- Four Sub Groups • 8 Mute Groups • 8 Fader Groups
- Eight DCA groups with easy implementation
- Six FX Buses
- Three stereo and 6 mono Aux Sends
- Easy pop-up access to Low Cut Filter and Channel Delay
- Twelve-function Foot Pedal included
- Built-in Subwoofer crossover (with selectable slope and roll-off point)
- Simple Mixer 10-channel configuration for applications needing less inputs, volunteers, occasional users,
- Anti-Feedback system
- Two USB-A I/O sockets on top, one on rear panel
- Record/playback to 2-track thumbdrive
- 32-track, or DAW record/playback via USB-C
- TRS Phones Output
- Remote tablet mixing via Wi-Fi — no app needed!



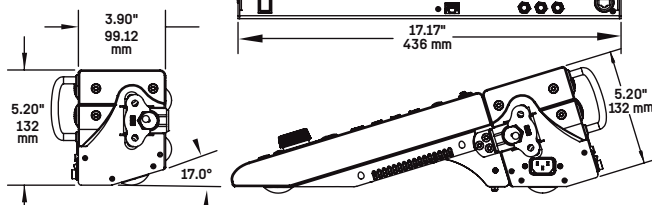
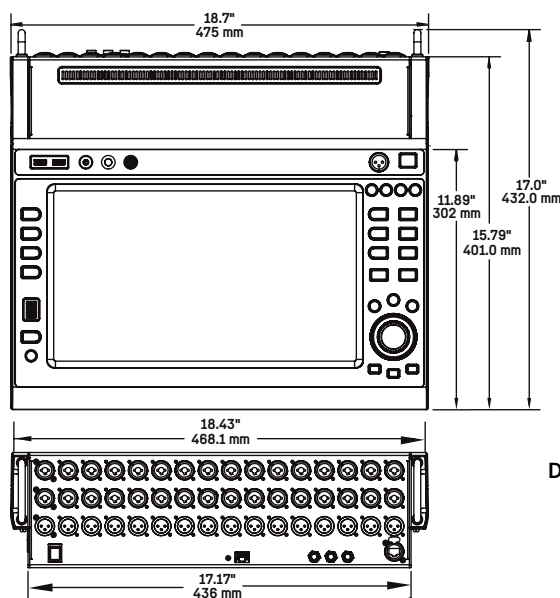
- User permission code can restrict operator access
- Solid steel chassis
- Full illustrated manual available on-screen

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- ▶ The D32 shall be a standalone digital mixer with 32 input sources, and USB-C and USB-A I/O. System latency shall be less than 0.5ms.
- ▶ All input and output processing/control, routing options and system configuration shall be accessed from a 15.6-inch capacitive touch screen. The surface shall include 100mm virtual faders with two screens of sixteen electronic faders selectable from a screen control virtual button, easy access to signal processing, input channels, mixes, FX sends and returns, Auxes, DCAs, Sub Groups, and linked faders.
- ▶ The D32 shall have a detachable Stage Box with all 32 mic preamps and other I/O. The Stage Box shall be either connected to the D32 Controller (screen), forming one unit, or connected with a Cat 6 cable up to 450 feet away. The D32 shall have AC connections on both the Stage Box (D32R) and Controller (D32S).
- ▶ The D32 shall have 8 DCA groups, 4 Mute Groups and 4 Sub Groups.
- ▶ Twenty Scenes shall be saved to the D32 and 10 scenes save to USB.
- ▶ Twenty Factory Presets shall be saved for the main mixer.
- ▶ Each on-screen channel strip shall include Mic/Line Input Level virtual rotary control with LED ladder, +48V Phantom Power virtual LED, "thumbnail" of parametric EQ applied to that channel and providing access to the channel's signal processing, Mute, Channel Name, with or without icon, main 100mm electronic channel fader, Gate or Compression select virtual buttons for the meter directly below. Main VU ladder, indicators for L/R, Center or Sub Groups 1 to 4, DCA indicator and virtual Cue button shall complete the channel strip.
- ▶ A Main L/R Output fader shall be present on all screens. It shall include stereo Compression indicators and output level Ladder.
- ▶ Electronic faders shall be moved either with a finger directly on the virtual fader cap, or by sliding a finger up and down anywhere along the fader path.
- ▶ Control of electronic rotary controls shall be possible by sliding a finger up and down over the knob or tapping and then rotating it with the D32's large, detented Rotary Control.
- ▶ Above each Home Screen shall be virtual buttons for selection of Channel 1-16, and 17-32, USB 2-Tk., USB-C/DAW, and FX, Custom screen creation, Master, Groups, Aux & Ctr, Copy, and Screen Tools.
- ▶ The Screen Tools virtual button shall activate a pop-up enabling selection of Fader Groups 1 to 8, Fader Color, Channel Link, Fine Fader Mode which "enlarges" a channel strip to 100mm for precise level control, Custom screen creation, Show virtual button for switching control to remote tablet, and access to Channel Namin Write Strip with its own QWERTY keyboard screen.
- ▶ A pop-up accessible from each channel strip's BigChannel shall provide an individual channel Input Gain virtual control knob with Level indicator, Mic/Line/Digital (or Instrument input on Channels 1 and 2), Phantom power, Anti-Clip and Phase virtual buttons. The pop-up shall also include a variable Low Cut filter control that is switchable at fixed 30Hz, 50Hz, 75Hz, 100Hz and 120Hz, and infinitely variable from 120Hz to 5kHz; with 18, 24 or 32 dB per octave slopes.
- ▶ A pop-up accessible from either Home Screen shall provide Phones Level and virtual Mute button, Monitor Speakers level with virtual Mute button, and Delay selectable in feet, meters or milliseconds.

- ▶ An Aux/FX on Faders pop-up shall assign Auxes 1 to 6, and 7/8, 9/10, and 11/12. A virtual knob adds L/R to Auxes.
- ▶ The D32 shall have a secondary 10-channel Simple Mixer configuration with faders and signal level ladder, EQ thumbnail leading to a simplified EQ, Compressor, 4-band equalizer, Pan, Low Cut, FX Send, and Monitor Send. Full parametric EQ shall also be accessed.
- ▶ The parametric EQ "thumbnail" on each channel strip shall open to a main BigChannel screen, consisting of Parametric equalizer with four movable adjustment points to vary band center, Q and boost/cut, Gate and Compression metering and Channel Delay.
- ▶ Parametric EQ shall be switchable to 28-band graphic equalizer or Real Time Analyzer. Gate's + button switches the small Gate section of the BigChannel to a dedicated Gate/Expander screen with touch-adjustable parameters, VU-type meter and other controls. Compressor's + button switches to a dedicated Compressor/Limiter screen with touch-adjustable parameters, VU-type meter and other controls.
- ▶ To the left of BigChannel signal processing shall be a duplicate of the channel strip with access to a Gain/Low Cut pop-up. Also to the left of the BigChannel signal processing section shall be assignments for Mute Groups, and FX Send and Aux Send levels into the channel, eliminating the need to change screens.
- ▶ To the right of the signal processing section shall be a duplicate of the Main L/R Output faders and level meter.
- ▶ The Reverb Delay screen shall incorporate a method for mixing reverb and delay proportions simultaneously rather than employing two separate controls. Effect Option shall be Echo, Ping Pong, and Doubling delay, and Chorus, Flanger, and Phaser Effects types. Three-band peaking EQ virtual rotary controls shall also be provided.
- ▶ Hard buttons to the left of the D32 screen shall activate Multi-Channel views of Mono Aux, Stereo Aux, FX and EQ. Additional buttons shall bring up the Aux on Faders function, and an Overview button that shows every fader on the D32 including levels, FXs, Auxes, DCAs.
- ▶ Hard buttons on the right side of the screen shall activate return to the current Home Screen, Menus, +48V Phantom Power, Feedback suppression, Channel Assign, FX Mute, Mute Group and Scene screens. Below shall be three triple-function hard buttons for Left, Center, Right channel Pan; advance to the next or previous channel, or Off/Zero and all Faders Down.
- ▶ A large, detented Rotary knob shall provide control of virtual rotary control knobs and faders. Dedicated Monitor/Headphone, USB-A 2-track Recording/Playback, and Multi-track Recording/Playback shall be located below the Rotary Control.
- ▶ The D32 shall include a P-1 foot control pedal that can call up four Scenes, four EQ presets or four mute groups. A connection cable shall also be included.
- ▶ 2-track recording shall be achieved via the D32's USB-A I/O for a thumb drive or external SSD. 24-track recording/playback shall be possible using the D32's USB-C output to an external SSD or DAW. A dedicated screen shall provide selection and assignment of channels.
- ▶ Accessed from a hard button, a sophisticated Feedback suppression system shall provide both automatic and adjustable control.
- ▶ The D32 shall be able to store and deploy three additional fader mixes, Matrices, and custom screens that shall include only those channels, Auxes, FX Sends and DCAs being used.
- ▶ The D32 shall have 32 Peter Watts' Lyric™ mic line preamplifiers with balanced combination XLR/TRS inputs. Line In Channels 31 and 32 shall be 3mm (1/8") jacks. An Antenna socket shall be provided for attachment of the D32's Wi-Fi connection.
- ▶ Balanced XLR Outputs shall be provided for Left, Right and Center or Subwoofer. A balanced XLR input shall be provided for a talkback microphone; TRS balanced outputs shall be for connection to speakers. Balanced XLR outputs shall provide four individual and two stereo Auxes. Balanced TRS sockets shall also be provided for Aux Outs 1-2, 3-4, 5-6, and 7-8.
- ▶ The D32 shall have Cat 6 sockets for its P-1 foot pedal, and Fast Ethernet (100 Mbit/s) external network connection to an existing network.
- ▶ The D32's built-in power supply shall receive AC input from a grounded IEC male socket, rated at 100V to 200V, 50/60Hz, 110W. A two-pole rocker switch shall be provided near the Mains on both the D32R and D32C. Recommended operating temperature for the D32 shall be 40° to 100° Fahrenheit / 5° to 40° Celsius.
- ▶ The mixer shall be an M&W D32.



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