Ashly digiMIX iPad® Control   Touchscreen   Motorized Fader   Intelligent Meters   Onboard DSP   5-Year Warranty

ASHLY

USB
32-Channel Audio Interface

Dante™
32-Channel Network Audio Interface

24-CHANNEL DIGITAL MIXER

DIGIMIX24

The NEW *digiMIX24 Digital Mixing Console* gives you complete control over your performance space. Light and portable, it's easy to transport or store away—whether you're mixing live bands, a high school musical, a worship service, or recording in a project studio, there are many applications where digiMIX24 feels right at home.

With its traditional analog feel, the *Live Control Surface* allows optimum control with real knobs and a live fader when selecting important functions, while offering conveniences of a responsive touchscreen, USB interfacing, and companion Apple iPad® App. Together, it's the ideal mixing experience.

With two performance modes: 24x8 AUX channels, or 24x4 AUX channels and 24x4 SUB-group channels with 6x DCA fader groups, you have the flexibility to accommodate instruments, voices and signals from various sources. Also equipped with Class-A mic pre's designed exclusively by Ashly, so you know great sound is always a standard feature!

Use digiMIX24 as a command center to integrate live performance throughout an entire venue or facility. Add an optional *Dante™* module to transmit and receive Dante network audio.

Features:

• Precision Alps® motorized 100mm fader
• 7" color LCD capacitive touchscreen for graphical viewing, assign, and setup
• EZ-Mode for secure, simplified touchscreen or iPad® control with EZ-Mode mixer
• 16 low noise microphone preamps with dedicated trim controls, +48V phantom power, phase invert
• Gain-sharing automixer
• Assignable cross fader
• Stereo AUX sends for stereo monitors
• 4 dedicated line-level inputs
• Stereo tape/CD inputs and outputs on RCA connectors
• USB 2-track audio stereo record and playback
• TRS inserts on channels 1-8
• 4 AUX sends and 4 subgroup outputs, switchable to 8 AUX sends
• 6 DCA for fader or mute groups
• 2 internal stereo FX with fully editable reverbs, delay with tap tempo, tremolo, flange, and chorus
• Pan control
• High resolution delay (0.2mS) on every input, subgroup, AUX, or FX

• Expander/noise gate on every input and FX channel
• Compressor/limiter on every input, subgroup, output, and FX channel
• 4-band parametric/shelving EQ filters plus HPF/LPF on every input, subgroup, output, and FX channel
• 31-band Graphic EQ on Main, AUX, and Sub Outputs
• Stereo link for adjacent inputs, subgroups, and AUX outputs
• Solo/PFL on every Input, Output, Subgroup, AUX, or FX
• Stereo main outputs on XLR and phone jack with dedicated level control
• Headphone and control room outputs with dedicated level controls
• User presets for DSP channel, GEQ, FX, or scene settings, plus channel copy function
• 32-bit A/D and D/A converters, 32-bit DSP processing, 48kHz sampling rate
• Password security
• Software control using Windows®, Mac®, or iPad®
• Internal 100-240VAC universal power supply
• Dante® Network Audio Interface (optional)
• USB Multi-track Audio Interface (optional)
• Safety/compliance: cTUVus, FCC, RoHS
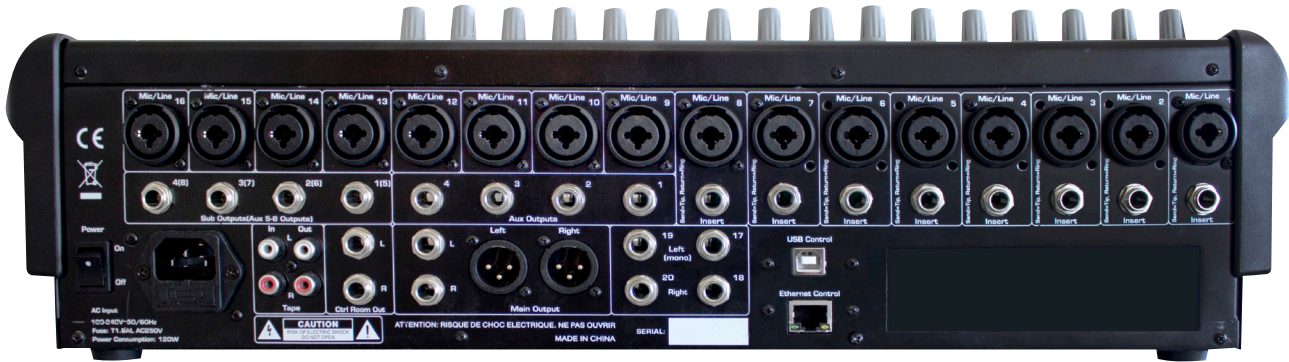
Rear Panel Configuration

Specifications
Notes: 0dBu = 0.775 VRMS

General

ADC Dynamic Range	114dB, unweighted
Internal Processor	32-bit floating point
Sample Rate	48kHz
DAC Dynamic Range	110dB, unweighted
ADC/DAC bit depth	32-bit
Audio Interface Module	Dante™, USB Multi-Channel (optional)

Microphone Input Class-A Discrete Balanced, 6.8k Ohm Input Impedance

Frequency Response to Main Output	20Hz – 20kHz, +.5/-1dB
Distortion (THD&N) to Main Output	<0.01% at 0dBu, 20Hz – 20kHz
Equivalent Input Noise	-126dBu, unweighted, 20Hz – 20kHz, 150 Ohm source
Gain (Trim)	0 dB – +50dB
Maximum Input Level	+20dBu
Phantom Power	+48VDC, +0/-4V, assignable to channels 1-16

Line Input Balanced, 75k Ohm Input Impedance

Frequency Response to Main Output	20Hz – 20kHz at 0dBu, 0/-1.5dB
Distortion (THD&N) to Main Output	<0.01% at 0dBu, 20Hz – 20kHz
Gain (Trim)	-20dB – +30dB
Maximum Input Level	+20dBu

TRS Insert Unbalanced, Tip = Send, Ring = Return

Maximum Output Level	+20dBu, 120 Ohm Source Impedance
Maximum Input Level	+20dBu, 5.0k Ohm Input Impedance

Stereo Line Input (17–18, 19–20) Balanced (2 stereo pair) 27k Ohm Input Impedance

Frequency Response to Main Output	20Hz – 20kHz, ±0.5dB
Distortion (THD&N) to Main Output	<0.01% at 0dBu, 20Hz – 20kHz
Gain	-∞ to +10dB
Input Level (Max)	+20dBu

Tape L/R Input Unbalanced RCA, 10k Ohm Input Impedance

Frequency Response to Main Output	20Hz – 20kHz, ±0.5dB
Distortion(THD&N) to Main Output	<0.01% at 0dBu, 20Hz – 20kHz
Gain	-∞ to +10dB
Input Level (Max)	+20dBu

USB 2-Track I/O

Connector Type	USB type B
Frequency Response to Main Output	20Hz – 20kHz, ±0.5dB
Distortion (THD&N) to Main Output	<0.02% at 0dBu, 20Hz – 20kHz
Gain	-∞ to +10dB
Input/Output Level (Max)	+15dBu = full scale digital

Maximum Output Levels

Main Outputs (Max)	Balanced XLR and TRS phone jack, +20dBu, 240 Ohm source impedance
AUX 1–4 Outputs	Pseudo-Balanced TRS phone jack, +20dBu, 240 Ohm source impedance
SUB 1–4 Outputs	Pseudo-Balanced TRS phone jack, +20dBu, 240 Ohm source impedance
Tape Outputs	Unbalanced RCA, +10dBu, 1k Ohm
Control Room Outputs	Balanced TRS phone jack, +20dBu, 240 Ohm source impedance
Residual Output Noise	-90dBu (one mic input assigned at 0dB) -82dBu (all 16 mic inputs assigned at 0dB) -80dBu (all 24 inputs assigned at 0dB)

Crosstalk

Adjacent Channels (1kHz)	-82dB
Noise	-70dB (Bus Noise, Adjacent Channels 20Hz – 20kHz)

Noise Gate / Expander Inputs, FX

Threshold Range	-84dB – 0dB
Attack time	0.5mS – 200mS
Release time	10mS – 1,000mS
Ratio	1:1 to ∞

Compressor/Limiter Inputs, Subgroups, Main, AUX, FX

Threshold Range	-50dB – 0dB
Attack time	10mS – 150mS
Release time	10mS – 1,000mS
Ratio	1:1 to ∞
Gain	0dB – +24dB

Parametric EQ (PEQ) Inputs, Subgroups, Main, AUX, FX

Filter Type (EQ1, EQ2, EQ3, EQ4)	Parametric, low shelf, high shelf
Parametric Filters	20.6Hz – 20kHz, Q 0.4 – 24, boost/cut ±24dB
Shelving Filters	20.6Hz – 20kHz, boost/cut ±24dB
HPF and LPF	20.6Hz – 20kHz, 20 filter type
HPF and LPF Filter Types	Bypass, Butterworth (BW) 6dB/oct, Bessel (BS) 6dB/oct, BW 12dB/oct, BS 12dB/oct, Linkowitz/Riley (LR) 12dB/oct, BW 18dB/oct, BS 18dB/oct, BW 24dB/oct, BS 24dB/oct, LR 24dB/oct, BW 30dB/oct, BS 30dB/oct, BW 36dB/oct, BS 36dB/oct, LR 36dB/oct, BW 42dB/oct, BS 42dB/oct, BW 48dB/oct, BS 48dB/oct, LR 48dB/oct

Graphic EQ (GEQ) Main, AUX, Subgroup Outputs

Filter Type	31-band, Constant Q, boost/cut ±24dB

FX Input Sends from all 24 Inputs, FX output Assigns to AUX, Subgroups, Main Output

Effect Types	Reverbs (3), delay, tremolo, flange, chorus, combinations, in stereo
Stereo Link	Inputs, Subgroups, AUX
DCA groups	6 groups, level, mute, solo
Preset Types	DSP channel (48), GEQ (48), DFX (104), scene (24)

Software / Firmware

Mixer Control	Ashly digiMIX app for Apple iPad®, is available from iTunes® App store
Firmware Update Preset Manager	digiMIX Utility for Windows® (download from Ashly website) and Mac (iTunes® App Store)
USB Device driver	May be required when using "digiMIX Utility" via USB cable connection. (Separate Windows and Mac versions available on Ashly website.)
USB-32 ASIO Device Driver	Required for USB-32 option when using Windows® multi-channel audio program (not Mac)

Digital Input Options
Sold Separately and Field Installable

Dante™ 32-Channel Network Audio Interface

USB 32-Channel Audio Interface

Environmental

Temperature Range

Operating, free-air	41°F – 113°F (5°C – 45°C)
Storage	-4°F – 140°F (-20°C – 60°C)

Power Requirements

AC Mains	100-240VAC 50/60Hz, 120W MAX

Weights and Dimensions

digiMIX24 Console

Unit Dimensions	20.15" L x 5.65" W x 14" H (512 x 356 x 144 mm)
Shipping Dimensions	23" L x 8.7" W x 18" H (58.5 x 22.1 x 45.6 cm)
Unit Weight	17.65 lbs (8.01 kg)
Shipping Weight	22.6 lbs (10.3 kg)

Dante-32 Option Card

Shipping Dimensions	6.02" L x 1.85" W x 7.09" H (153 x 47 x 180 mm)
Shipping Weight	0.42 lbs (0.19kg)

USB-32 Option Card

Shipping Dimensions	6.02" L x 1.85" W x 7.09" H (153 x 47 x 180 mm)
Shipping Weight	0.47 lbs (0.21kg)