HELIX BOARD 24 UNIVERSAL

HELIX BOARD 24 UNIVERSAL 24-Input 4-Subgroup Mixer with USB & FireWire Interface

96kHz USB / FireWire interface for streaming 18 independent channels of audio to computer with low latency, 2 channels of monitoring from computer Pre/post setting for swapping input channels sent to the computer from pre-low cut, -EQ to post-EQ, post-fader

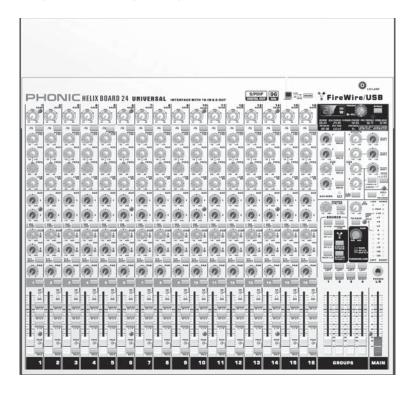
16 extremely low noise microphone preamps

100+Tap 32/40-bit high-definition digital multi-effects

S/PDIF digital audio output

Steinberg Cubase LE 4 included

Mac and PC compatible



FEATURES:

- 96kHz USB / FireWire interface for streaming 18 independent channels of audio to computer with low latency
- Pre/post setting for swapping input channels sent to the computer from pre-low cut, -EQ to post-EQ, post-fader
- ▶ 2 channels of monitoring from computer via USB / FireWire interface, can be assigned to control room monitors, main mix and AUX 1
- ▶ DFX, our 32/40-bit high definition algorithm digital multi-effect processor with 100 programs plus tap delay and foot switch jacks
- Channel 17/18 routed to computer can be selected from Main mix, Group 1/2 and AUX 3/4
- ▶ 16 Mic/Line channels with inserts
- ▶ 3-band EQ with swept mid-range
- ▶ 75 Hz low-cut filter on each channel
- ► AUX 1 & 2 with Pre/Post switch

- ► Six AUX send mixing bus
- ► Four stereo AUX returns, three with effect to monitor
- ► +48V phantom power on Mic channels
- ► Four true Subgroups with Main L and R routing switches
- Direct outputs for multi-track recording
- ► Control Room and Phones outputs with multi-input source matrix
- Mono out with variable low pass filter from 60 Hz to 160 Hz for subwoofer
- ▶ Dual-position I/O pod
- Built-in switching power supply with universal connector, 100-240
 VAC. 50/60 Hz
- Rack-mounting kit included
- ► S/PDIF digital audio output
- ► Compatible with Mac OSX and Windows XP / Vista
- ▶ Steinberg Cubase LE 4 included

The Helix Board 24 Universal is the newest addition to Phonic's popular Helix Board series of digital recording interface mixers. It features 96 KHz USB and FireWire interfaces that let you individually stream up to 18 independent channels of audio to the computer and return two channels to the mixer for monitoring - all with low latency. Pre/post buttons, located underneath the console, allow each channel's EQ and fader (among other controls) to affect the channel's outgoing USB/FireWire signal, allowing more versatile use. Digital S/PDIF output is also provided for direct connection to recording devices like DAT decks. The 3-band EQ with swept mids, insert points for connection to external processors, 6 AUX send mixing bus (2 AUX sends with pre/post buttons), and direct outputs for multi-track recording allow users incredible flexibility with mix control and signal routing. Mono channels have an AUX 5/6 shift button, expanding the number of outputs available. But that's not all: the mixer features a dual-position input/output (I/O) pod that lets you use it as a desktop mixer or convert for rack mounting. The I/O pod rotates out of the way to save space in your rack. The built-in 32/40-bit digital effect processor has 100 popular programs, tap-delay, test tones (pink noise, 1kHz, etc), and footswitch jacks. Low cut filters eliminate P-pops, stage rumble and wind noise. Top it off with a subwoofer output, four true subgroups and individual phantom power switches on every channel, and you've got a perfect medium-sized rack-mountable mixer for live events or studio recording. Steinberg's Cubase LE 4 digital audio workstation software also included.



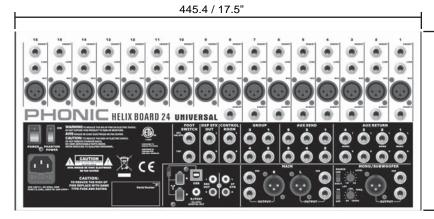
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Specifications

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Inputs	
Balanced Mic / Line channel	16
Aux Return	4 stereo
2T Input	Stereo RCA
Outputs	
Main L/R Stereo	2 x 1/4" TRS, Bal. & 2 x XLR
Main out with inserts	Yes
Main Mono	1 x 1/4" TRS, Bal. & 1 x XLR
Main Mono out with inserts	Yes
Subgroup outputs	4x 1/4" TRS, Bal.
Aux sends	6x 1/4" TRS, Bal.
DSP effect outputs	2 x 1/4" TS
CTRL RM L/R	2 x 1/4" TS
Phones	1
SPDIF digital output	44.1kHz
Firewire and USB Interface	18 out & 2 in, 24-bit / 96 kHz, 2 FireWire ports and 1 USB port
Channel Strips	16
Aux Sends	6 with 4 volume control
Pan/Balance Control	Yes
Channel On/Mute	Yes
Channel solo with metering	Yes
LED indicators	On, Signal, Peak/Solo
Bus assign switches	1/2, 3/4, L/R
Volume Controls	60mm fader
Master Section	
FireWire channel 17/18 rounting switch	Source from main mix, group 1/2, and aux 3/4
Aux Send Masters	4
Master Aux Send Solo	4
Stereo Aux Returns	4
Aux Return Assign to Subgroup	1
Effects Return to Monitor	3
Global PRE/POST Solo Mode	Yes
Faders	4 subgroups, Main L/R
Metering	
Number of Channels	2

Segments	12
Phantom Power Supply	+48V DC
Switches Master switch	
Effect Processor (40-bit DSP)	High definition algorithm 100 programs plus tap delay; foot switch jacks (effect on/off, tap)
Frequency Response (Mic input to a	any output)
20Hz ~ 60KHz	+0/-1 dB
20Hz ~ 100KHz	+0/-3 dB
Crosstalk (1KHz @ 0dBu, 20Hz to 20KHz bandwidth, channel in to main L/R outputs)	
Channel fader down, other channels	at unity <-90 dB
Noise (20Hz~20KHz; measured at main output, Channels 1-4 unit 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=+6dBu)	
Master @ unity, channel fader down	-86.5 dBu
Master @ unity, channel fader @ unit	y -84 dBu
S/N ratio, ref to +4	>90 dE
Microphone Preamp E.I.N. (150 ohms terminated, max gain) <-129.5 dBm	
THD (Any output, 1KHz @ +14dBu, 20Hz to 20KHz, channel inputs) <0.005%	
CMRR (1 KHz @ -60dBu, Gain at maximum) 80dB	
Maximum Level	
Mic Preamp Input	+10dBu
All Other Inputs (except inserts)	+22dBu
Balanced Outputs	+28dBu
All other outputs	+22dBu
Impedance	
Mic Preamp Input	2 K ohms
All Other Input (except insert)	10 K ohms
RCA 2T Output	1.1 K ohms
All other outputs	100 ohms
Equalization 3-band, +/-15dE	
Low EQ	80Hz
Mid EQ	100-8k Hz, sweepable
Hi EQ	12 kHz
Low cut filter	75 Hz (-18 dB/oct)
Built-in Switching Power Supply	100-240 VAC, 50/60 Hz
Net Weight	23.1 lbs (10.5 kg)
Dimensions (WxHxD)	445.4x211.7x431.8 mm (17.5"x8.3"x17")

Back Panel





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Information in this document is subject to change without notice



211.7 / 8.3"