HELIX BOARD 18 UNIVERSAL

18-Input Mixer with USB/FireWire Interface

- 96 kHz FireWire interface for streaming 16 independent channels of audio to computer with near-zero latency
- Pre/post setting for swapping USB/FireWire input channels sent to computer from pre-low cut, -EQ to post-EQ, post-fader
- 100+Tap 32/40-bit high-definition digital multi-effects
- S/PDIF digital audio output
- 8 extremely low-noise mic preamps
- Steinberg Cubase LE 4 digital audio workstation software included

FEATURES

- ▶ Pre/post setting for swapping USB/FireWire input channels sent to computer from pre-low cut, -EQ to post-EQ, post-fader
- ▶ 18-input small-format analog mixer with extremely low noise circuitry
- ▶ 96kHz USB/FireWire interface for streaming 16 independent channels of audio to computer with near-zero latency

- ▶ 2 channels of monitoring from computer via USB / FireWire interface, can be assigned to control room monitors, Main mix and AUX 1
- ▶ Channel 15/16 routed to computer can be selected from main mix, group 1/2 and AUX 2/3
- ▶ DFX, our 32/40-bit high definition algorithm digital multi-effect processor with 100 programs plus tap delay, foot switch jacks and volume controls for sending processed signal to aux send 1 & 2
- ▶ Six Mic/Line channels with inserts
- ▶ 8 extremely low noise mic preamps
- ▶ Four stereo Line channels
- ▶ 3-band EQ with swept mid-range
- ▶ 75 Hz low-cut filter on mono channels
- ▶ Three AUX sends, one with Pre/Post switch
- ▶ Two stereo AUX returns, one with effect to monitor level control
- ▶ +48V phantom power on Mic channels
- ▶ Solo feature on each input and output
- ▶ Two true subgroups with Main L and R routing switches
- ▶ 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 18 Universal is part of the new generation of USB / FireWire mixers from Phonic. The Universal mixer features a FireWire and USB interface that can individually stream up to 16 independent channels of audio to the computer and return two tracks for monitoring, all at screaming fast transfer rates of up to 24-bit/96 kHz with a near-zero latency. Pre/post switches on each input channel ensure users can adjust the outgoing USB/FireWire signal between a pre fader and post fader signal with the utmost of ease. An onboard 32/40-bit digital multi-effect processor provides 100 popular programs, tap-delay, test tones (pink noise, 1 kHz, etc) and foot switch jacks. There are 8 extremely low noise Mic preamps, each with phantom power, spread across six mono Mic/Line channels with 75 Hz low cut filters, and four stereo Line channels. Each Mic channel has a 3-band EQ (six with swept mid), and two stereo channels have a 4-band EQ. A 10-band system graphic equalizer can be assigned to Main Outs or AUX 1. Stereo RCA inputs and outputs make the addition of digital and analog playback and recording devices effortless. Additional features include three AUX sends, two stereo Aux returns, input and output solo, two true subgroups and a rack mounting kit. Steinberg Cubase LE 4 digital audio workstation software included.

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Specifications

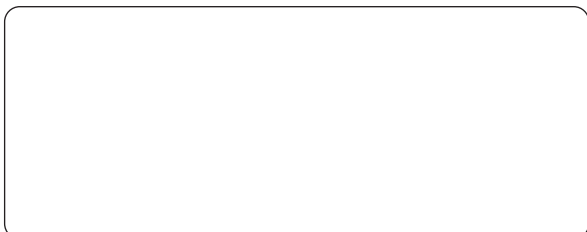| Inputs	
Total Channels	10
Balanced Mono Mic / Line channel	6
Balanced Mic / Stereo Line channel	2
Balanced Stereo Line Channel	2
Aux Return	2
2T Input	Stereo RCA
Outputs	
Main L/R Stereo	2 x 1/4" TRS, Bal. & 2 x XLR
Rec Out	Stereo RCA
CTRL RM L/R	2 x 1/4" TS
Phones	1
Firewire and USB Interface	16 out & 2 in, 24-bit / 96 kHz,
	2 FireWire ports and 1 USB port
Channel Strips	10
Aux Sends	3
Pan/Balance Control	Yes
Volume Controls	60mm fader
Master Section	
FireWire channel 15/16 routing switch	Source from main mix,
	group 1/2, and aux 2/3
Aux Send Masters	3
Master Aux Send Solo	3
Stereo Aux Returns	2
Aux Return Assign to Subgroup	2
Effects Return to Monitor	2
Global AFL/PFL Solo Mode	Yes
Phones Level Control	Yes
Faders	Aux return 1 & 2, Subgroup 1 & 2, Main L & R
Metering	
Number of Channels	2
Segments	12
Phantom Power Supply	+48V DC
Switches	Master
Effect Processor (32/40-bit DSP)	High definition algorithm 100 programs plus tap delay; foot switch jacks (effect on/off, tap)

Frequency Response (Mic input to 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 @ unity	-84 dBu
S/N ratio, ref to +4	>90 dB
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 Input	+22dBu
Balanced Output	+28dBu
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	200 ohms
Equalization	3-band, +/-15dB
Low EQ	80Hz
Mid EQ (mono channel)	100-8k Hz, sweepable
LMid EQ (stereo channel)	800 Hz
HMid EQ (stereo channel)	3 kHz
Hi EQ	12 kHz
Low cut filter	75 Hz (-18 dB/oct)
Built-in Power Supply	100-240 VAC, 50/60 Hz
Weight	11.2 lbs (5.1 kg)
Dimensions (WxHxD)	16" x 3.5" x 14" (407 x 89 x 357 mm)

407mm (16")

89mm (3.5")

Back Panel

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