

# HELIX BOARD 12 FIREWIRE MKII

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### 12-Input Mixer with DFX & FireWire Interface

- FireWire Pre/post setting for swapping streaming input channels to computer from pre low cut, EQ to post EQ, post fader
- 96 kHz FireWire interface for streaming 10 independent channels of audio to computer with near-zero latency
- 2 channels of monitoring from computer via FireWire interface
- 100+ Tap 40-bit high-definition digital multi-effects
- Track individual input channels with stereo AUX cue
- Mac OSX and Windows XP compatible
- Steinberg Cubase LE workstation software included



### FEATURES

- ▶ FireWire Pre/post setting for swapping streaming input channels to computer from pre low cut, EQ to post EQ, post fader
- ▶ 12-input small-format analog mixer with extremely low noise circuitry
- ▶ DFX, our 40-bit digital multi-effect processor with 100 programs plus tap delay and foot switch jacks
- ▶ 96 kHz FireWire interface for streaming 10 independent channels of audio to computer with near-zero latency
- ▶ Two channels of monitoring from computer via FireWire interface
- ▶ Channel 9/10 routed to Computer can be selected from main mix, ALT 3/4 and aux 1/2
- ▶ Four mono Mic/Line channels
- ▶ Two stereo channels, two stereo AUX Returns, two AUX Sends
- ▶ 3-band EQ on each channel
- ▶ 75 Hz low-cut filter on mono channel
- ▶ Inserts on channel 1 & 2
- ▶ +48V phantom power on Mic channels
- ▶ Stereo AUX Send 1 cue for monitoring individual channel
- ▶ Master AUX section with EFX to Monitor
- ▶ Extra ALT 3-4 stereo bus
- ▶ Control room/Phones source matrix
- ▶ Balanced master output with 60 mm fader control
- ▶ High-volume headphone output
- ▶ Compatible with Mac OS X and Windows XP
- ▶ Steinberg Cubase LE workstation software included

The Helix Board 12 FireWire MKII is part of the new generation of Phonic's popular Helix Board mixers. It features a 96 KHz FireWire interface that lets you individually stream up to 10 independent channels of audio to the computer and return two channels to the mixer for monitoring - all with near-zero latency. Pre/Post switches on each input channel allow users to adjust the outgoing FireWire signal between a pre-EQ, pre-fader, pre-low cut, to a "post" signal. An onboard 40-bit digital multi-effect processor provides 100 popular programs, tap delay and a foot switch jack. Four extremely low noise Mic/Line preamps, each with 75 Hz low cut filters, and phantom power, and two stereo Line channels offer a variety of input options. Each channel has a 3-band EQ and an option to send the signal to the ALT 3-4 stereo bus, where several inputs can be grouped and controlled together. And tracking individual inputs is easy with the stereo Aux cue. Stereo RCA inputs and outputs make the addition of digital and analog playback and recording devices effortless. Additional features include two Aux sends, two stereo Aux returns, balanced stereo Main Outs, master Aux section with EFX to monitor, Control Room/Phones source matrix and Steinberg's Cubase LE digital audio workstation software.

# PHONIC

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## Specifications

<b>Inputs</b>	
<b>Total channels</b>	6
Balanced Mono Mic/Line channel	4
Balanced Stereo Line Channel	2
Aux return	2 stereo
2T input	Stereo RCA
<b>Outputs</b>	
Main L/R stereo	2 x 1/4" TRS, Bal.
ALT 3-4	2 x 1/4" TRS, Unbal.
Rec out with trim control	Stereo RCA
CTRL RM L/R	2 x 1/4" TS
Phones	1
<b>FireWire Interface</b>	10 out & 2 in, 24-bit / 96 kHz
<b>Channel Strips</b>	
Insert Points	2
Aux send	2
Pan/Balance control	Yes
Volume Controls	Rotary
<b>Master Section</b>	
FireWire channel 9/10 routing switch	Source from main mix, ALT 3/4, and aux 1/2
Stereo aux returns	2
Effects return to monitor	1
Control room/Phones Level Control	Yes
Faders	Main L/R, 60mm fader
<b>Metering</b>	
Number of channels	2
Segments	8
<b>Phantom Power Supply</b>	
Switches	Master
<b>Effect Processor (40-bit DSP)</b>	
	High definition algorithm 100 programs plus tap delay; foot switch jacks (effect on/off, tap)
<b>Frequency Response (Mic input to any output)</b>	
20Hz ~ 60KHz	+0/-1 dB

20Hz ~ 100KHz	+0/-3 dB
<b>Crosstalk</b> (1KHz @ 0dBu, 20Hz to 20KHz bandwidth, channel in to main L/R outputs)	
Channel fader down, other channels at unity	<-90 dB
<b>Noise</b> (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 ration, ref to +4	>90 dB
<b>Microphone Preamp E.I.N.</b>	
(150 ohms terminated, max gain)	<-129.5 dBm
<b>THD</b> (Any output, 1KHz @ +14dBu, 20Hz to 20KHz, channel inputs)	
	<0.005%
<b>CMRR</b> (1 KHz @ -60dBu, Gain at maximum)	
	80 dB
<b>Maximum Level</b>	
Mic preamp input	+10 dBu
All other input	+22 dBu
Balanced output	+28 dBu
<b>Impedance</b>	
Mic preamp input	2 K ohms
All other input (except insert)	10 K ohms
RCA 2T output	1.1 K ohms
<b>Equalization</b>	
	3-band, +/-15 dB
Low EQ	80 Hz
Mid EQ	2.5 KHz
Hi EQ	12 KHz
Low cut filter	75Hz (-18dB/oct)
<b>Power Requirement</b>	
	100VAC, 120VAC, (external power supply, depends on region)
	220~240VAC, 50/60Hz
<b>Net Weight</b>	
	6.4 lbs (2.9 kg)
<b>Dimensions (WxHxD)</b>	
	245.4x86x271.3 mm (9.7"x3.4"x10.7")



Back Panel



\* Optional Accessory: Rack mounting kit (ER-12MUX)