Fairlight Audio Interface

Fairlight Audio Interface is a professional audio post production I/O interface with an extensive variety of analog and digital inputs and outputs, preamps for microphones and instruments, built in sample rate conversion, sync at any standard frame rate and dual 9-pin control ports! Fairlight Audio Interface requires Fairlight Audio Accelerator and connects to the Fairlight Audio Interface with a supplied proprietary interface cable.

Connections

Analog Audio Inputs
2 x remote controlled XLR/TRS microphone inputs with 48v phantom power / instrument preamps.
8 x +24dBu balanced analog inputs.

Analog Audio Outputs
12 x +24dBu balanced analog outputs with mute protection.

Digital Audio Inputs
9 x fully transformer coupled AES stereo digital inputs.
1 x S/PDIF input with sample-rate conversion.

Digital Audio Outputs
11 x AES stereo digital outputs.
1 x stereo digital S/PDIF output.
Standard 25pin Tascam interface for Analog and AES looms.

Sync Input
1 x 75 ohm BNC Reference input.
Tri-Sync or Black Burst.
1 x 75 ohm BNC word clock input.

Sync Output
1 x 75 ohm BNC Reference loop out.
Tri-Sync or Black Burst.
1 x 75 ohm BNC word clock regenerated output.
Sync to all common frame rates and formats including HD Tri-level sync, video sync, word-clock and AES/EBU.

Device Control
1 x RS-422 9-pin machine control input.
1 x RS-422 9-pin machine control output.

Timecode
Timecode input and output with regeneration.

MIDI
For future use

GPIO
GPI and GPO connections for cough and ‘On-Air’ control
Product Specifics

**Sample Rate**
44.1, 48, 96, 192 kHz

**Max Input**
Inputs 1-2 (mic): +2.5dBu
Inputs 1-2 (instrument): +24dBu
Inputs 3-10 (Line): +24dBu

**Gain Range**
Inputs 1-2: Mic Inputs: 50dB gain range (+21.5 to +71.5dB)
Inputs 1-2 : Instrument Setting: 50dB gain range (+0 to +50dB)

**Mic E.I.N (unweighted)**
Inputs 1-2: -127dBu @40dB (61.5dB)  
Gain: 150 ohm source, 20Hz - 20kHz  
THD+N (mic input)  
Inputs 1-2: <0.001%@ 1kHz, -1 dBFS after 0dB gain (unweighted)  
Inputs 3-10 : <0.001 % @ 1 kHz (unweighted)  

**Dynamic Range (line input)**
Inputs 1-2 : 108dB @ 0dB gain (unweighted)  
Inputs 3-10: 110dB (unweighted)  

**Input Frequency Response**
+0.05/-0.05dB, 20Hz - 20kHz

**Input Impedance**
Inputs 1-2 (XLR) : 2k ohm  
Inputs 1-2 (1/4") : >1M ohm  
Inputs 3-10: 15k ohm  

**Max Output**
Outputs 1-12: +24 dBu

**THD+N (Line input)**
Inputs 1-2: <0.001%@ 1kHz, -1 dBFS at 0dB gain  
Inputs 3-10 : <0.004%@ 1kHz, -1 dBFS at 40dB (61.5dB) gain  

**THD+N (Line Outputs)**
Outputs 1-12 : <0.002%

**Dynamic Range (Line Output)**
Outputs 1-12 : 109 dB (unweighted)

**Output Frequency Response**
+0.05/-0.5dB, 20Hz - 20kHz

**Output Impedance**
Outputs 1-12 : 50 ohms
Operating Systems

Mac 10.15 Catalina or later.

Windows 10, 64-bit.

Power Requirements

**Power Supply**
Internal 100 - 240V AC 50/60Hz with IEC C14 mains input.

**Power Usage**
40W

**Power Management**
Automatically powered-on/off only when the Fairlight Audio Accelerator is powered on.

Physical Specifications

Environmental Specifications

**Operating Temperature**
0° to 40°C (32° to 104°F)

**Storage Temperature**
-20° to 60°C (-4° to 140°F)

**Relative Humidity**
0% to 90% non-condensing

What's Included

Fairlight Audio Interface
Fairlight Audio Interface multi-pin cable to connect to Fairlight Audio Accelerator.

Warranty

1 Year Limited Manufacturer's Warranty.