

Quick Start Guide

Fairlight SX-20 I/O Interface

Revision Number: A

SX-20



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1. Introduction

The SX-20 interface provides a wide variety of audio, synchronization and control interfaces. When connected to Fairlight's CC-1 card, the SX-20 becomes the natural hub of today's studio.

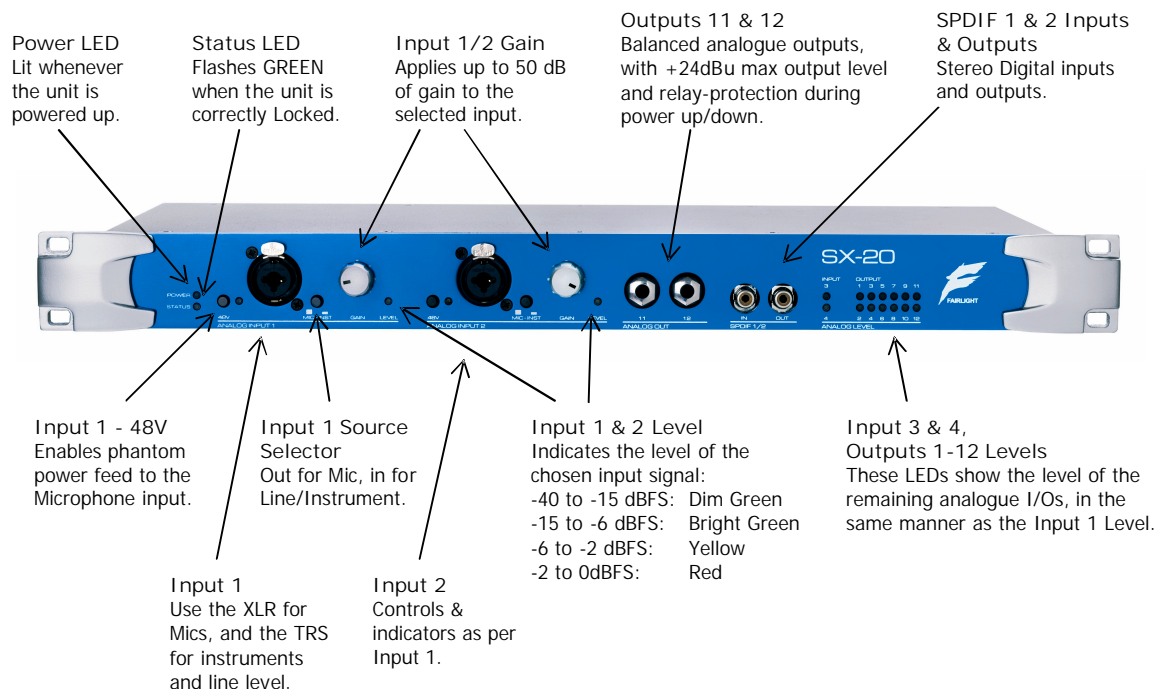
Fully integrated into and controlled by the DREAM II system, all I/Os can be freely deployed for many different purposes, including monitoring, ingest and layback, and inserts.

2. Operation

The SX-20 connects to the CC-1 card using the supplied DVI-I dual link cable, and to mains supply using a standard IEC lead. Ensure that both the PC and the SX-20 are turned OFF before fitting the DVI cable.

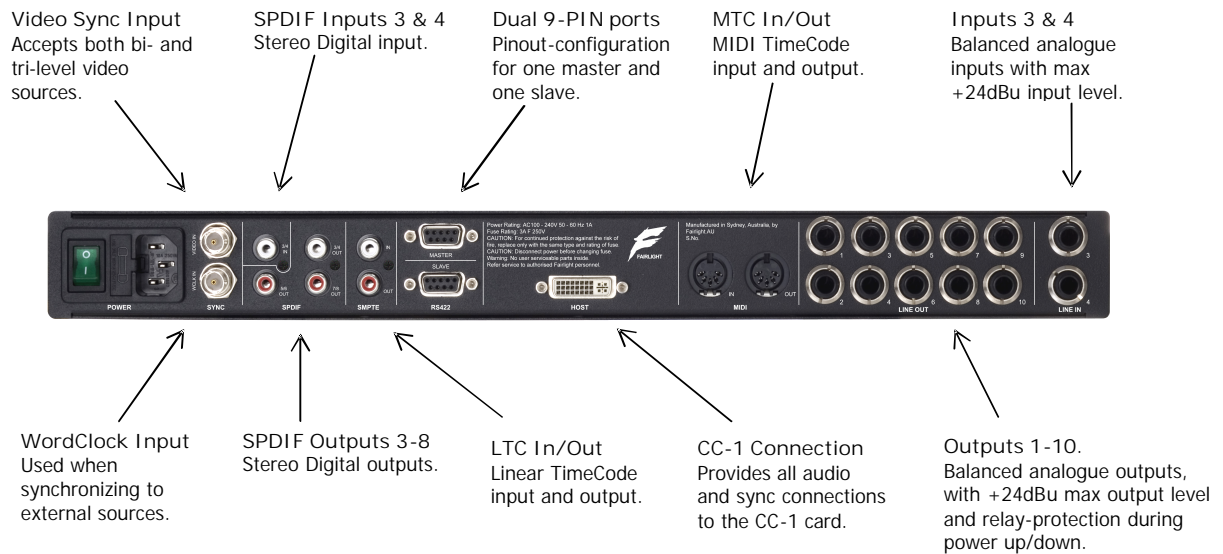
Once the primary mains switch on the back of the unit is switched on, the SX-20 automatically switches on and off in tandem with the PC/CC-1 that it is connected to.

3. Faceplate



4. Backplate

Intended for more permanent connections, the backplate houses further digital and analogue connections, as well as synchronization and control ports:




5. Default Setup

After the initial installation of the DREAM II software, the system is preset with the following allocation of I/O:

- | | | |
|-----------------|--------|----------------------------|
| a. Analogue Out | 1 & 2: | Main monitors. |
| b. Analogue Out | 3 & 4: | Nearfield Monitors. |
| c. Analogue In | 3 & 4: | External Monitor Source 1. |
| d. Digital In | 3 & 4: | External Monitor Source 2. |

Please refer to the DREAM II user manual for details on how to modify this setup.

6. Specifications A/D	D/A
Sample rate: 44.1, 48, 96, 192 kHz (+4.1667%, +0.1%, -0.1%, -4%)	Sample rate: As per A/D
Max Input: Inputs 1-2 (mic) : +0 dBu Inputs 1-2 (instrument) : +24 dBu Inputs 3-4 (line) : +24 dBu	Max Output: Outputs 1-12: +24 dBu
Gain Range: Inputs 1-2: mic setting: 50dB gain range (0dBu to -50dBu max input) Inputs 1-2: Instrument setting: 50dB gain range (+24 dBu to -26dBu max input)	Dynamic range: Outputs 1-12: 109 dB (unweighted)
Mic E.I.N (unweighted): Inputs 1-2: -125dBu @ max gain: 150 ohm source, 20Hz – 20kHz	THD+N: Outputs 1-10: 0.0010% @ 1kHz, -1dBFS Outputs 11-12: 0.0013% @ 1kHz, -1dBFS
Dynamic Range: Inputs 1-2: 101 dB @ minimum gain (unweighted) Inputs 3-4: 109 dB (unweighted)	Frequency Response: +0.05 / -0.5 dB, 20 Hz – 20kHz
THD+N mic input : Inputs 1-2: 0.001% @ 1kHz, -1dBFS after 0 dB gain Inputs 1-2: 0.002% @ 1kHz, -1dBFS after 25 dB gain	Output Impedance: Outputs 1-12: < 150 ohms
THD+N line input: Inputs 1-4: 0.001% @ 1kHz, -1dBFS	
Frequency Response: +0.05 / -0.15 dB, 20 Hz – 20kHz	
Input Impedance: Inputs 1-2 (mic): 2k ohm Inputs 1-2 (instrument): >1M ohm Inputs 3-4: 15k ohm	

7. Contact Details
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