

IOX

Expansion Audio Interface for SoundGrid® Systems

OVERVIEW

Ideal for getting audio in and out of your Waves LVI system, DiGiGrid IOX is a high-count I/O interface featuring 12 mic/line inputs with broadcast/studio-quality preamps and 6 line outputs. Adding multiple IOXs to your system gives the ability to connect all of the audio coming from the stage to your SoundGrid network, ready to be mixed and processed for both the audience and the musicians.

But the possibilities don't stop at live sound. The IOX is also perfect for your studio's performance/recording room. With four customizable headphone outputs fed by four individual mixes, the IOX delivers high-resolution monitoring whether you're performing in the studio or listening in the control room.



KEY FEATURES

12 mic/line inputs with premium preamps

6 line outputs, 4 headphone outputs

Connects via a single Ethernet cable

Quick-view front panel input metering

High-definition AD/DA conversion

1U Rackmount unit

Compliant with the Soundgrid Studio ASIO/Core Audio driver

DiGiGrid audio interfaces give you the freedom to connect all your DAWs and hardware devices quickly and easily, and the power to run up to hundreds of plugins in real time. Waves, the world's leading developer of audio plugins, and DiGiCo, the world's leading manufacturer of professional mixing consoles, have joined forces to create the most advanced audio interfaces on the market, with award-winning preamps and superior networking and processing capabilities.



TECHNICAL SPECIFICATIONS

FRONT

4 x Headphone outputs (1/4" TRS) with independent analogue level controls

12 x Quick-view metering and status indicators

1 x Power button

REAR

12 x mic/line inputs (XLR/TRS combo)

6 x line outputs (TRS)

2 x SoundGrid RJ45 Ethernet ports (switched)

1 x Word Clock I/O (BNC)

1 x AC PSU

1 x Reset switch



A&E SPECIFICATION

The DiGiGrid IOX shall be an audio interface for the SoundGrid Network.

The front of the unit shall have four headphone outputs (1/4" TRS), each with its own analogue level control. There shall also be 12 sets of quick-view metering and indicator LEDs, showing whether a signal is present, if it is clipping and if phantom power has been turned on for each of the 12 analogue inputs. The front of the unit shall also have a power button for turning the device on and off.

The rear of the unit shall have 12 mic/line inputs (XLR/TRS combo) and 6 line outputs (TRS). The rear shall also have 2 switched RJ45 ethernet ports for connection to other SoundGrid devices, Word Clock I/O, an AC PSU and a reset switch.

The clock synchronisation source shall be chosen from Word Clock, SoundGrid (sync over ethernet) or internal.

Inside the unit there shall be a set of jumpers to change the broadcast level format of each analogue input and output.

The dimensions of the IOX shall be: 482.6 (w) x 356 (d) x 43.6 (h) mm
The weight of the IOX shall be: 4.5kg

AUDIO SPECIFICATIONS

Sample Rate: 44.1kHz / 48kHz / 88.2kHz / 96kHz

Internal Latency: 0.8ms

Analogue Inputs

Input Impedance: Mic: 2K Ω / Line: 8K Ω Ohms

Gain Range: Mic: -20dB to +60dB in 0.5dB steps / Line: -30dB to +50dB in 0.5dB steps

Maximum Input Level: Mic: +26dBu / Line: +36dBu

Mic Equivalent Input Noise: > -126 dB (150 Ω source, Gain +60dB)

Harmonic Distortion: Typically <0.01% @ unity gain, 10dB input @ 1kHz

Frequency Response: +/-0.5dB (20Hz to 20kHz)

Channel Separation: Better than 90dB (40Hz to 15kHz)

Analogue Outputs

Maximum Output Level: +22dBu

Residual Output Noise: <90dB (20Hz to 20kHz)

Frequency Response: +/-0.5dB (20Hz to 20kHz)

Output Impedance: 50 Ω

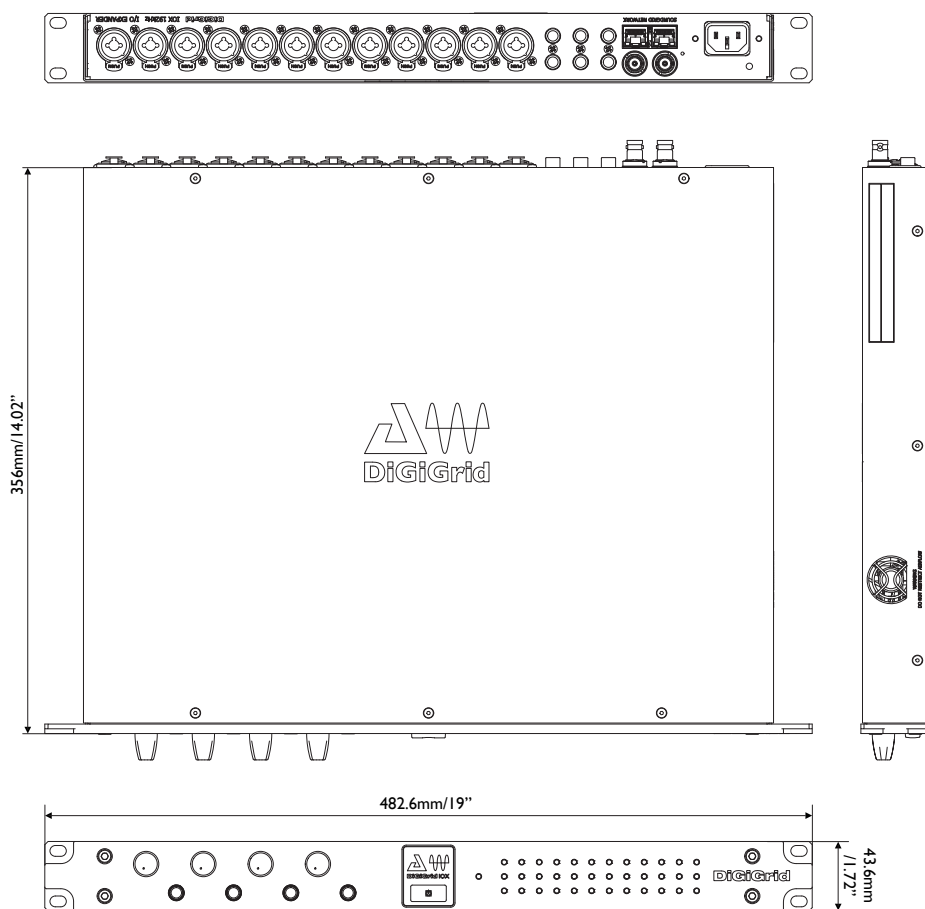
Channel Separation: Better than 90dB (40Hz to 15kHz)

Harmonic Distortion: Typically <0.01% @ +10dB output @ 1kHz

SoundGrid audio networking gives you the freedom to connect multiple I/Os, mixing consoles, DAW computers and DSP servers to the same system, all using standard Cat 5e/Cat 6 Ethernet cables. Boasting state-of-the-art AD/DA convertors, DiGiGrid intergaces ensure high fidelity with uncompromising dynamic range, plus the ease and flexibility of the SoundGrid network.

LINE DRAWING

All dimensions in mm



PHYSICAL

Dimensions: 482.6mm (w) x 356mm (d) x 43.6mm (h)

Weight: 4.5kg (6.5kg boxed)

Power Requirements: 100-240 VAC, 0.8A, 50/60Hz

Product Code: X-DG-IOX

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DiGiGrid IOX Datasheet

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