

prismsoundrecording

Όρφεύς

Orpheus - the ultimate professional firewire interface by Prism Sound



Two mic / line / instrument inputs
Two mic / line inputs
Four line inputs
Eight line outputs

MS matrix processing on mic channels

Up to 10 concurrent digital I/O channels
SPDIF & ADAT

MIDI in/out ports

Dual Headphone outputs

Multi-channel monitoring with master level control

Plug n Play with
your PC or Mac



With unbeatable sound quality, state-of-the-art clock technology, low-latency, flexible monitoring for control room or foldback, Orpheus by Prism Sound is the professional's choice.



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Orpheus - the ultimate professional firewire interface by Prism Sound



Orpheus is a FireWire interface for personal recording and sound production, for professional musicians, songwriters, engineers and producers. It provides Prism Sound performance and sound quality in a dedicated FireWire unit. Orpheus has line, microphone and instrument inputs, good foldback and stereo or surround monitoring capabilities, ADAT and SPDIF digital I/O plus support for external MIDI devices. Microphone inputs support MS matrix processing. High-performance digital sampling-rate conversion (SRC) is available for digital inputs or outputs.

Eight analogue input channels and up to 10 digital input channels are available (SPDIF on RCA/coax plus ADAT optical) as DAW inputs through the host's audio driver. Similarly, eight analogue output channels, up to 10 digital output channels and stereo headphone outputs can play 22 different channels. For low-latency foldback or monitoring to headphones or main outputs, each output pair (1-2, 3-4 etc) can be driven with an individual local mix of any selection of inputs through the controller applet. All inputs are electronically balanced with automatic unbalanced operation. Outputs are electronically balanced with 'bootstrapping', i.e. level is maintained if one leg is grounded.

Orpheus is compatible with Windows XP, Vista Mac OS X 10.4x (PPC or Intel).

FRONT PANEL

Instrument Inputs: 2 x electronically balanced 6.3mm TRS Jacks
Headphone Outputs: 2 x 6.3mm stereo TRS Jacks
Master volume: Assignable encoder/push switch with halo indication
Headphones: Dual outputs, each with volume control

Indication:

Meters: 10 x multi-segment LED: 8 x analogue, 2 x digital, input or output
Overkiller: 8 x Overkiller engaged/active indicators
Digital Connection: Indicators for digital input lock, SRC active
Input selection: Mic/line/inst & phantom power indicators
Sync: 1 x Sync Master indicator
Standby/Active: 1 x bicolour indicator

REAR PANEL

Analogue mic/line inputs: 4 x Neutrik combo XLR/6.3mm TRS Jack
Analogue line inputs: 4 x electronically balanced 6.3mm TRS Jacks
Analogue line outputs: 8 x electronically balanced 6.3mm TRS Jacks
Digital input: 1 x RCA (SPDIF), 1 x TOSLINK/ADAT Optical
Digital output: 1 x RCA (SPDIF), 1 x TOSLINK/ADAT Optical
MIDI: 2 x 5 Pin DIN female (in and out)
Wordclock: 2 x BNC female (in and out)
FireWire: 2 x FireWire IEEE1394A (host and cascade)
Mains: IEC 6A

SOFTWARE SUPPORT

Driver & control applet compatible with Windows XP (WDM or ASIO driver), Windows Vista and Mac OS X (CORE AUDIO, Intel or PPC)
Interfaces with compatible applications and controls the unit

Firmware downloader available for Windows XP/Vista to update the unit's firmware

MIC/LINE/INSTRUMENT INPUTS

Line level for 0dBFS: +18dBu ('+4dBu' setting) or +6dBu ('-10dBV' setting)
Line input impedance: 15k Ω
Mic input level for 0dBFS: -55dBu to 0dBu in 1 dB steps
Mic input impedance: 5k Ω
Mic amp EIN at 40dB gain: <-127dBu
Instrument input level for 0dBFS: -49dBu to +6dBu in 1dB steps
Instrument input impedance: 1M Ω
Overkiller: switchable, auto-aligning
Phantom power: switchable, +48V (jumper change for +15V), per channel
Impact filter: 80Hz HPF switchable for mic-capable inputs
M/S matrix: available on mic-capable input pairs
THD+N: <-108dB
Dynamic Range: >116dB
CMRR: >80dB to >60dB
Cross-talk: <-120dB 20Hz-20kHz: <-100dB
Gain matching: <+/-0.05dB absolute; <+/-0.05dB inter-channel
Inter-channel phase matching: <+/-0.05 degrees

ANALOGUE OUTPUTS

Line level for 0dBFS: +18dBu ('+4dBu' setting) or +6dBu ('-10dBV' setting)
Type: bootstrapping balanced/unbalanced
Output impedance: 50R balanced, 25R unbalanced
THD+N: <-108dB
Dynamic Range (-60dBFS): >115dB
Output balance: <-50dB
Cross-talk: <-120dB, 20Hz-20kHz: <-100dB
Gain matching: <+/-0.05dB absolute; <+/-0.05dB inter-channel
Inter-channel phase matching: <+/-0.05 degrees

DIGITAL INPUTS

RCA: SPDIF Direct coupled; 75R impedance; 200mV to 5V P-P input
TOSLINK: up to 96kHz SPDIF; ADAT 8 channels, 4 channels at >48Hz
Split96 operation: not supported
Sample Rate Conversion (SRC): on/off; switchable input/output
Channel Status: ignored

DIGITAL OUTPUTS

RCA: SPDIF Transformer coupled; 075R; 0.5V P-P loaded
TOSLINK: up to 96kHz SPDIF; ADAT 8 channels, 4 channels at >48Hz
Channel Status: full implementation
Super Noise Shaping (SNS): Types 1-4 available, 16-bit only
Sample Rate Conversion (SRC): on/off; switchable input/output; optional sync to wordclock input

SYNCHRONIZATION

Sample rates: 44.1/48/88.2/96/176.4/192kHz
(input and output paths must be synchronous)
Jitter rejection at converters: >60dB/decade above 100Hz

Sync Modes

Master: local or wordclock, SPDIF or ADAT input
Slave: Sync to (FireWire) master interface or Host computer

PHYSICAL

Dimensions: 1u 19inch rack mountable
(rubber feet and rack ears supplied)
W: 483mm D: 300mm H: 44mm
Weight: 3.75kg

POWER SUPPLY

Power: 90-250VAC, 50/60Hz, 35W
IEC 6A connector

All measurements rms unweighted at 997Hz, 20Hz-20kHz unless otherwise stated. Specifications provisional and subject to amendment. E&OE.

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