

Digi 002 Rack

FireWire-based Pro Tools LE Studio-in-a-Box



FEATURES

- Single FireWire connection to PC* or Mac host computer
- 8 analog inputs with 4 mic pres with individual gain and high-pass filter; 48V phantom power enabled on channel pairs
- 8 analog outputs; Outputs 1 & 2 mirrored on 1/4" TRS Monitor Output (with dedicated volume control), headphone output on 1/4" TRS (with dedicated volume control knob), and RCA-based -10 dBV fixed output
- 8 channels of ADAT optical I/O or 2 channels of optical S/PDIF I/O
- 2 channels of S/PDIF I/O on RCA connectors
- Alternate Source Input for direct monitoring of -10 dBV audio equipment (CD players, tape players, etc.)
- 24-bit/96 kHz converters, up to >108 dB dynamic range and >98 dB (0.002%) THD+N
- MIDI I/O — 1 IN port, 2 OUT ports (16 channels in, 32 channels out)
- Footswitch for QuickPunch control
- 2U rackmountable chassis

* Windows support coming with Pro Tools 6.1 software release

A natural extension of Digi 002, Digidesign's Digi 002 Rack is an affordable FireWire-based Pro Tools mini studio that packs all the punch of Digi 002 (minus the control surface interface) into a 2U rackmountable unit.

Digi 002 Rack provides the means to create everything from top-notch demos to masterful DJ mixes to superb radio spots, all with 24-bit clarity and up to 96 kHz sample rate support. Its analog, digital and MIDI capabilities enable Digi 002 Rack to handle a wide variety of I/O configurations, while dedicated monitor and headphone outputs allow you to keep a close ear on progress.

Digi 002 Rack's single-box design includes a sole FireWire (or, 1394) connection that handles the exchange of information to and from your PC* or Mac, so you just plug in and go. No additional hardware is required, making Digi 002 Rack a suitable solution for laptop as well as desktop-based environments. Once up and running, you have everything you need to create professional audio productions with the ease, power and flexibility intrinsic to the Pro Tools family. And because it's FireWire-based, Digi 002 Rack offers portability that makes it equally viable for studio and live applications.

ALL THE I/O OF DIGI 001 AND MORE

Digi 002 Rack includes 8 channels of balanced analog I/O, 8 channels of ADAT optical I/O and 2 channels of S/PDIF I/O, for a total of 18 simultaneous channels of I/O — all of which are easily accessible via the back panel. Additional standard features include: four mic pres with 48V phantom power; 96 kHz converters; one MIDI IN and two MIDI OUT ports for a total of 16-in/32-out MIDI channels; a separate unbalanced RCA-based,

-10 dBV main input and output (for recording from/to cassette decks or CD players); and an Alternate Source Input for monitoring tape or CD players at the touch of a button.

Every signal that hits Digi 002 Rack travels throughout the system in 24-bit luxury. Sample rates extend up to 96 kHz, and a >105 dB dynamic range further ensures the sonic quality of your end results. Whether you are working with raw audio, MIDI, or a combination of the two, Digi 002 Rack and Pro Tools LE work together seamlessly to allow you to optimize your time and creativity. Digi 002 Rack ships with the latest 32-track Pro Tools LE software, giving you greater functionality and ease-of-use than ever before.

RTAS/AudioSuite-format plug-ins offer even more production options. Pro Tools LE software includes a variety of professional Digidesign plug-ins with the DigiRack plug-in bundle. And, as Digi 002 Rack includes native support for the RTAS format, you can always augment your system with a large variety of professional plug-ins created by Digidesign Development Partners.

FIREWIRE SIMPLICITY

Connecting Digi 002 Rack to your computer is as simple as plugging in a FireWire cable, which facilitates the flow of all audio streams, MIDI data, and Pro Tools control data between Digi 002 Rack and your host computer. For storage and throughput, an extra FireWire port allows you to connect another FireWire-capable device, such as an external hard drive, to your computer while simultaneously running the Pro Tools application.

Digi 002 Rack works with FireWire-enabled Macintosh systems to give you some serious creative power. You're not restricted to bulky, desktop CPUs, nor to a software-only working environment. And your sessions are equally viable in your own



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FireWire-based Pro Tools Mini Studio

studio and in a professional Pro Tools TDM studio, sharing the same interface, and in many respects, the same functionality.

THE BOTTOM LINE

Digi 002 Rack represents a truly revolutionary breakthrough on several levels. No other product prepares you as effectively to make the transition from an all-in-one home/project solution to a professional DAW environment. And, no other product can touch the value of Digi 002 Rack — at \$1,295, it is far and away the best investment you can make for a solution of its kind.

SYSTEM REQUIREMENTS

Digidesign-approved Macintosh computer

For the latest Digidesign product information and system requirements, visit www.digidesign.com.

For the latest Development Partner plug-in and software compatibility information, visit www.digidevelopers.com.

* Windows support coming with Pro Tools 6.1 software release

SPECIFICATIONS

A/D

Sample Rate: 44.1, 48, 88.2, 96 kHz

Max Input:

- Inputs 1-4 (mic): +3 dBu
- Inputs 1-4 (line): +18 dBu
- Inputs 5-8 (line/+4 mode): +18 dBu

Gain Range:

- Inputs 1-4: Mic Setting: +15 - +65 dB; Line/DI Setting: +0 - +50 dB
- Inputs 5-8 – fixed +4 dBu or -10 dBV, -14 dB headroom

Mic E.I.N (unweighted):

- Inputs 1-4: -126 dBu @ 65 dB gain, 150 ohm source, 20 Hz – 20 kHz

THD+N (line input):

- Inputs 1-4 (mic): 0.004%, 62 dB gain^{1,3}
- Inputs 1-4 (line): 0.004%, +17 dBu signal (minimum gain)^{1,3}
- Inputs 5-6: 0.002% @ +17 dBu input level
- Inputs 7-8: 0.003% @ +17 dBu input level

Dynamic Range:^{1,2}

- Inputs 1-4: >101 dB (A-weighted), 98 dB (unweighted)
- Inputs 5-8: >108 dB (A-weighted), 105 dB (unweighted)⁵
- Alt Source Inputs: >99 dB (A-weighted), 97 dB (unweighted)

Frequency Response:

- +0.15 / -0.5 dB, 20 Hz – 20 kHz

Input Impedance:

- Inputs 1-4 (XLR): 2 kohm
- Inputs 1-4 (1/4"): 10 Mohm

D/A

Sample Rate: 44.1, 48, 88.2, 96 kHz

Max Output:

- Main (1-2), Monitor, and Outputs (3-8): +18 dBu
- Alt. -10 dBV Outputs: +4 dBV
- Headphone Outputs: +15 dBu, 150 ohm load

THD+N:^{1,3,4}

- Main Outputs: <0.0016% (-95 dB)
- Monitor Outputs: <0.0016% (-95 dB)
- Outputs 3-8: <0.0023% (-93 dB)
- Alt. -10 dBV Outputs: <0.0023% (-93 dB)

Dynamic Range:^{1,3,4}

- Main Outputs: 114 dB (A-weighted), 112 dB (unweighted)
- Monitor Outputs: 112 dB (A-weighted), 110 dB (unweighted)
- Outputs 3-8: 114 dB (A-weighted), 112 dB (unweighted)
- Alt. -10 dBV Outputs: 98 dB (A-weighted), 95 dB (unweighted)

Frequency Response:

- +0.15 / -0.5 dB, 20 Hz – 20 kHz

Output Impedance:

- 50 ohms

1 Measurement made using balanced connectors

2 ADC measured -60 dBFS method with a gain setting such that +18 dBu = 0 dBFS at S/PDIF output

3 Measured relative to level at 1 kHz

4 Measured with digital input at -60 dBFS @ 1 kHz

5 Measured using "+4" setting

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