TASCAM®
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FW-1082 FRONTIER

Firewire Audio/MIDI Interface and Control Surface

Utilizing the latest FireWire technology, the Tascam FW-1082 is a complete studio solution with audio I/O, MIDI I/O and a full-featured control surface in one affordable package. Whether you're just starting out or looking to upgrade your hardware, the FW-1082 is an ideal choice for a compact recording system.

Four microphone inputs, each with phantom power for condenser mics, record to multiple tracks for later overdubbing or mixdown. The first two inputs have analogue insert points, so you can insert a compressor to keep from distorting or add any external effect to your recording tracks. Up to eight line level signals can be recorded or mixed simultaneously – such as synthesizers or multieffects processors. An SPDIF connection allows you to connect digital sources for pristine audio quality.

The FW-1082 includes a full-featured MIDI interface with two MIDI inputs and two MIDI outputs, so you can connect several synths and controllers. The control surface of the FW-1082 features nine touch-sensitive moving faders that snap to position when you select a bank of eight faders. A full selection of transport buttons, cursor keys and a shuttle wheel allow you to quickly jump to any point of your song without touching a mouse.

The four assignable encoders provide exact control over pan, EQ* or aux sends of your workstation software mix. Separate headphone and monitor outputs and controls are also provided. It's compatible with all of the top DAW recording applications, including the bundled Cubase LE 48-track workstation. With its audio, MIDI and control surface features, the FW-1082 is the perfect command center for your home studio.

*Control Surface compatibility for some features is subject to the DAW program's native driver software. Check for the latest driver software updates and documentation.

Main Features

- **Audio interface with 10 inputs and 4 outputs**
  - Enough ins and outs to record a band or mix a MIDI synth arrangement
- **24-bit/96-kHz audio resolution**
  - Audiophile recording quality captures every detail and nuance
- **Four balanced XLR/TRS mic/line inputs with phantom power**
  - Connect line sources, dynamic or studio condenser microphones
- **Four additional balanced TRS line inputs (one switchable to Guitar)**
  - Eight total inputs for line sources, guitar/bass (ch. 8 switchable) or effect returns
- **Analogue inserts on channels 1 and 2**
  - Insert a compressor, limiter, noise gate, EQ or effect while recording
- **SPDIF stereo digital input and output**
  - Perfectly transfer digital audio to CD recorders, samplers or effects processors
- **Balanced TRS monitor outputs**
  - Connect to your monitor system even over long distances
- **Headphone output with level control**
  - Listen to your recording without additional monitor amplifier/speakers
- **Two MIDI inputs and outputs**

- **Nine 60-mm touch-sensitive moving faders**
  - Automate mix moves like a pro and see where level is set on any channel including the master
- **Eight channel strips with solo, mute and select buttons and record arm indicator**
  - Quickly access your channels without using the mouse
- **Four assignable encoders**
  - Use real controls to adjust pan, aux level and EQ parameters*
- **Transport controls, jog/shuttle wheel and many other surface controls***
  - Control your DAW application comfortably like a hardware recorder*
- **Emulates Mackie® HUI® and Mackie® Control™ in addition to included native mode control plug ins**
  - Works out of the box with any professional DAW software application
- **Includes Steinberg® Cubase® LE software**
  - 48-track recording at 96kHz plus MIDI tracks, VST plug-ins, ReWire support and digital mixing with an upgrade path to Cubase SX
- **Minimum hardware requirements under Mac operating systems: Macintosh G4 processor**

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Specifications

Analogue inputs and outputs

MIC input 1-4 (Balanced)	3-pin XLR jack x 4 (1 = GND, 2 = Hot (+), 3 =Cold (−))
Input impedance	2.2kOhm
Adjustable Input range	−56dBu (TRIM max) to −2 dBu (TRIM min)
Maximum gain	+54dB
Phantom power	Switchable +48V
LINE input 1-8 (Balanced)	6.3-mm TRS jack x 8
Input impedance, LINE/MIC	10kOhm
Input impedance, GUITAR (input 8 switchable)	500kOhm
Adjustable input range, channels 1–4	−42dBu (TRIM max) to +12dBu (TRIM min.)
Adjustable input range, channels 5–8	−43dBu (TRIM max) to +4dBu (TRIM min.)
Maximum gain, channels 1–4	+54dB
Maximum gain, channels 5–8	+46dB
INSERT 1-2 (Unbalanced)	6.3-mm TRS jack x 2 (Tip = SEND, Ring = RETURN, Sleeve = GND)
Impedance, Send	100 Ohm
Nominal level, Send	-2dBu
Maximum level, Send	+14dBu
Impedance, Return	10kOhm
Nominal level, Return	-2dBu
Maximum level, Return	+14dBu
Analog MONITOR (BAL) output	6.3-mm jack (balanced) x 2
Output impedance	100 Ohm
Nominal output level	+4dBu
Maximum output level	+20dBu
Phones output (Stereo)	6.3-mm stereo jack x 1 (Tip = L, Ring = R, Sleeve = GND)
Max output power	52mW + 52mW (32 Ohm)

Digital inputs and outputs

Digital input (COAXIAL)	2-channel serial digital audio signal input terminal. In the case of Hi sampling, Hi-speed mode is supported.
Connector	RCA jack x 1
Input impedance	75 Ohm
Format	IEC60958 (SPDIF)
Audio bit length	24-bit
Digital output (Coaxial)	2-channel serial digital audio signal output terminal. In the case of Hi sampling, Hi-speed mode is supported.
Connector	RCA jack x 1
Output impedance	75 Ohm
Format	IEC60958 (SPDIF)
Audio bit length	24-bit

Other inputs and outputs

MIDI input 1-2	5-pin DIN connector x 2 – conforms to MIDI specifications
FireWire (IEEE.1394 digital interface)	IEEE.1394 connector x 2
Format	IEEE.1394
Transmit rate	400 Mbps
FOOT SW (foot switch) for Punch In/Out of DAW application	6.3-mm TRS jack (normally-open)

Overall system and audio specifications

Sampling frequencies	internal: 44.1kHz / 48.0kHz / 88.2kHz / 96.0kHz external: via digital input
THD (Level+4dBu)	<0.005% (20 Hz - 20 kHz, LINE IN to INSERT SEND) <0.01% (1 kHz, LINE IN to MONITOR OUTPUT)
Frequency response (@ nominal level)	20Hz – 20kHz, ±1.0dB (normal FS, MIC/LINE IN to INSERT SEND) 20Hz – 40kHz, +0.5dB / −1.0dB (Hi FS, MIC/LINE IN to INSERT SEND) 20Hz - 20kHz, ±1.0dB (normal FS, LINE IN to MONITOR OUTPUT) 20Hz – 40kHz, +0.5dB / −2.0dB (Hi FS, LINE IN to MONITOR OUTPUT)
Noise level (20Hz – 20kHz, TRIM max, 150 Ohm)	<−128dBu (EIN), MIC IN to INSERT SEND <−64dBu, LINE IN to MONITOR OUTPUT
Crosstalk (@ 1kHz)	>80dB, MONITOR OUTPUT

Power supply and other specifications

External power adapter AC input	100V AC, 50/60Hz
	120V AC, 60Hz
	230V AC, 50Hz
	240V AC, 50Hz
Adapter output voltage	12V, 2.5A
Power consumption	22W
Applicable electromagnetic environment	E4
Peak inrush current	2.6A
Dimensions (W x H x D)	486mm x 83mm x 386mm
Weight (excluding adapter)	6.5kg
Supplied accessories	AC adapter (PS-1225B) and AC cable
	2m (6ft) IEEE.1394 6–6 cable
	CD-ROM containing driver, utility software and documentation
	CD-ROM containing Cubase LE
	Owner's Manual
	Setup Guide
	Warranty card

Design and specifications subject to change without notice.

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