



### Time Code Option

This optional module provides the Fireface with a LTC and video synchronization input, and an additional LTC output.

The TCO not only extracts absolute positions from LTC, but thanks to SteadyClock™ also a very clean low-jitter word clock from LTC and video.

Thus a sample accurate timecode synchronization to audio or video sources is assured. The received Time Code can be sent to the audio or video application as ASIO Positioning Protocol (APP) or MTC.

### I/O Connectivity

- 28 Input / 28 Output channels
- 10 x Analog I/O
- 1 x Stereo Headphone Out
- 2 x ADAT I/O or 1 x ADAT I/O plus
- 1 x SPDIF I/O (optical)
- 1 x SPDIF I/O (coaxial)
- 1 x MIDI I/O
- 4 x Mic/Line Inputs
- 1 x Instrument input
- 2 x FireWire 800
- 1 x FireWire 400
- optional: Time Code Module

The Fireface 800 is the high performance audio interface redefining the benchmark for FireWire audio devices. It combines approved features of existing RME products with today's fastest FireWire technology. Based on the world renowned Hammerfall DSP technology, the Fireface 800 combines maximum audio quality and flexibility with extremely low latency.

High-end AD/DA converters and sampling rates of up to 192 kHz ensure a pure and unequalled audio quality. All major settings are controlled by the included TotalMix software and can be stored as presets. Fireface 800 and TotalMix give you full control on the audio signal: simultaneous recording of 28 tracks to your computer, routing the signal to the backup media on two ADAT ports, an extra mix for the digital 2-track Master via SPDIF/AES, checking every signal or every combination of signals over the integrated headphone output with several different submixes - all at the same time.

The Fireface 800 also supports standalone operation by storing any user setup in its flash memory. It retains all settings, including the mixer configuration, and loads them when the device is powered up. The unit can thus be configured and used as a standalone device, e.g. as a submixer, AD and DA converter, headphone mixer, format converter, instrument- and microphone preamp, monitor mixer, etc. With its 2 ADAT interfaces the Fireface 800 can be easily expanded with RME's OctaMic II or the renowned ADI series converters to expand it to a full-blown 28-channel analog mobile recording studio - perfect for recording, monitoring, routing and audio processing.

All inputs and outputs can be used at the same time! E. g., the instrument input can be used either instead of the line input on the back, or together with it. Even the TRS jack and the XLR socket of the microphone inputs can be used simultaneously. This way, up to 35 signal sources can be connected to the Fireface 800 and recorded onto 28 separate tracks!

### Features

- Top range AD/DA converters with 24 bit and up to 192 kHz sampling frequency on all inputs and outputs
- 4 x Mic Inputs in Class-A design with a maximum gain of 60 dB
- 8 x Line In and Out, servo-balanced with variable level settings
- High-Z Instrument In with Overdrive and Speaker Emulation
- Dedicated Headphone Out
- Steady Clock®-technology for maximum jitter suppression
- Word Clock I/O, low latency MIDI I/O, SPDIF I/O coaxial (AES/EBU compatible)
- 2 x ADAT digital I/Os, (1 x switchable to SPDIF optical)
- 2 x FireWire 800 bi-lingual ports, 1 x FireWire 400 port for daisy chaining
- Built-In switching power supply for worldwide operation

### Specifications

- Dynamic range AD: 110 dB RMS unweighted, 113 dBA
- THD AD: < -110 dB (< 0.00032 %)
- THD+N AD: < -104 dB (< 0.00063 %)
- Crosstalk AD: > 110 dB
- Dynamic range DA: 116 dB RMS unweighted, 119 dBA (unmuted)
- THD DA: < -103 dB (< 0.0007 %)
- THD+N DA: < -100 dB (< 0.001 %)
- Crosstalk DA: > 110 Db
- Input/Output level for 0 dBFS @ Hi Gain: +19 dBu
- Input/Output level for 0 dBFS @ +4 dBu: +13 dBu
- Input/Output level for 0 dBFS @ -10 dBV: +2 dBV
- Sample rates internal: 32, 44.1, 48, 64, 88.2, 96, 128, 176.4, 192 kHz
- Sample rate external: 28 - 200 kHz
- Frequency response AD/DA, -0.1 dB: 5 Hz - 21.5 kHz (sf 48 kHz)
- Frequency response AD/DA, -0.5 dB: 1 Hz - 43.5 kHz (sf 96 kHz)
- Frequency response AD/DA, -1 dB: 1 Hz - 70 kHz (sf 192 kHz)



Fireface 800