



## 60-Channel 192kHz high-end USB Audio Interface

The unique Fireface UFX II is the premier solution to transfer analog and digital audio data directly to a computer from practically any source. Numerous unique features, well thought-out configuration dialogs, an industry-leading mixing engine and monitoring solution, professional DSP effects and class-leading analog circuits with latest digital converters put the Fireface UFX II at the very top of the range of computer-based audio interfaces.

With exceptional flexibility and compatibility, the inclusion of DURec (Direct USB Recording), and RME's famous low latency hardware and driver designs, the Fireface UFX II delivers a rich feature set that will appeal to users in both high end home studios and commercial audio production facilities.

With capacity for 60 audio channels (30 input and 30 output), support for sampling frequencies upward of 192 kHz, and the flexibility provided by USB connectivity, the new Fireface UFX II is an ideal solution to a wide range of recording, mixing, and monitoring applications.

### Overview of the Fireface UFX II most important features:

- All settings can be changed in real-time
- Buffer sizes/latencies from 32 up to 8192 samples selectable
- 8 channels 96 kHz/24 bit Record/Playback via ADAT optical (S/MUX)
- 4 channels 192 kHz/24 bit Record/Playback via ADAT optical (S/MUX4)
- Clock modes slave and master
- Automatic and intelligent master/slave clock control
- Unsurpassed Bitclock PLL (audio synchronization) in ADAT mode
- SteadyClock: Jitter-immune, super-stable digital clock
- DDS technology for free setting of the sample rate
- SyncAlign guarantees sample aligned and never swapping channels
- SyncCheck tests and reports the synchronization status of input signals
- TotalMix for latency-free submixes and perfect ASIO Direct Monitoring
- TotalMix: 1800 channel mixer with 46 bit internal resolution
- TotalMix FX: 3-band EQ, Low Cut, Reverb, Echo, Compressor, Expander, Auto Level
- 2 x MIDI I/O, 32 channels high-speed Low-Jitter MIDI
- 2 x Hi-power low impedance headphone output
- DIGICheck DSP: Level meter in hardware, peak- and RMS calculation

### Connectivity

- 4 x Mic/Line/Inst Input
- 8 x Line Input
- 2 x XLR Output
- 6 x Line Output
- 2 x Phones Output
- 1 x AES I/O
- 2 x SPDIF I/O
- 2 x ADAT I/O
- 1 x Word Clock I/O
- 2 x MIDI I/O
- USB DURec
- USB 2.0

**AD, Line In 1-8, rear:**

- Resolution AD: 24 bit
- Signal to Noise ratio (SNR): 113 dB RMS unweighted, 116 dBA
- Frequency response @ 44.1 kHz, -0.1 dB: 5 Hz – 20.8 kHz
- Frequency response @ 96 kHz, -0.5 dB: 3 Hz – 45.8 kHz
- Frequency response @ 192 kHz, -1 dB: 2 Hz – 92 kHz
- THD: < -110 dB, < 0.00032 %
- THD+N: < -104 dB, < 0.00063 %
- Channel separation: > 110 dB
- Maximum input level: +19 dBu
- Input: 6.3 mm TRS jack, electronically balanced
- Input impedance: 8 kOhm unbalanced, 12 kOhm balanced
- Input sensitivity switchable to Lo Gain, +4 dBu
- Input level for 0 dBFS @ Lo Gain: +19 dBu
- Input level for 0 dBFS @ +4 dBu: +13 dBu
- Variable gain: 0 to +12 dB
- Minimum level for 0 dBFS: +1 dBu, -1.2 dBV

**Microphone In 9-12, front:**

As above, but:

- Input: XLR, electronically balanced
- Input impedance: 3.4 kOhm
- Signal to Noise ratio (SNR): 115 dB RMS unweighted, 118 dBA
- Gain range: 75 dB
- Maximum input level, Gain 0 dB: +18 dBu
- Maximum input level, Gain 75 dB: -57 dBu
- CLIP LED: 0 dBFS
- SIG LED: -60 dBFS

**Instrument In 9-12, front :**

As above, but:

- Input: 6.3 mm TS jack, unbalanced
- Input impedance: 1 MOhm
- Signal to Noise ratio (SNR): 114 dB RMS unweighted, 118 dBA
- Gain range: 42 dB
- Maximum input level, Gain 8 dB: +21 dBu
- Maximum input level, Gain 50 dB: -21 dBu

**AES/EBU:**

- 1 x XLR, transformer-balanced, galvanically isolated, according to AES3-1992
- High-sensitivity input stage (< 0.3 Vpp)
- SPDIF compatible (IEC 60958)
- Accepts Consumer and Professional format
- Lock range: 27 kHz – 200 kHz
- Jitter when synced to input signal: < 1 ns
- Jitter suppression: > 30 dB (2.4 kHz)

**ADAT Optical:**

- 2 x TOSLINK, format according to Alesis specification
- Standard: 2 x 8 channels 24 bit, up to 48 kHz
- Double Speed (S/MUX): 2 x 4 channels 24 bit 96 kHz
- Quad Speed (S/MUX4): 2 x 2 channels 24 bit 192 kHz
- Bitclock PLL ensures perfect synchronisation even in varispeed operation
- Lock range: 31.5 kHz – 50 kHz
- Jitter when synced to input signal: < 1
- Jitter suppression: > 30 dB (2.4 kHz)

**SPDIF optical (ADAT 2):**

- 1 x optical, according to IEC 60958
- Accepts Consumer and Professional format
- Lock range: 27 kHz – 200 kHz
- Jitter when synced to input signal: < 1 ns
- Jitter suppression: > 30 dB (2.4 kHz)

**Word Clock:**

- BNC
- Internal termination 75 Ohm switchable
- Automatic Double/Quad Speed detection and internal conversion to Single Speed
- SteadyClock guarantees super low jitter synchronization even in varispeed operation
- Not affected by DC-offsets within the network
- Signal Adaptation Circuit: signal refresh through auto-center and hysteresis
- Overvoltage protection
- Level range: 1.0 Vpp – 5.6 Vpp
- Lock Range: 27 kHz – 200 kHz
- Jitter when synced to input signal: < 1 ns
- Jitter suppression: > 30 dB (2.4 kHz)

**MIDI:**

- 2 x MIDI I/O via 5-pin DIN jacks
- Galvanically isolated by optocoupled input
- Hi-speed mode: Jitter and response time typically below 1 ms
- Separate 128 byte FIFOs for input and output

### DA, Line Out 1-8, rear:

- Resolution: 24 bit
- Dynamic range (DR): 115 dB RMS unweighted, 118 dBA
- Frequency response @ 44.1 kHz, -0.5 dB: 5 Hz – 20.8 kHz
- Frequency response @ 96 kHz, -0.5 dB: 5 Hz – 45 kHz
- Frequency response @ 192 kHz, -1 dB: 5 Hz - 89 kHz
- THD: < -110 dB, < 0.00032 %
- THD+N: < -104 dB, < 0.00063 %
- Channel separation: > 110 dB
- Maximum output level: +19 dBu
- Output: 6.3 mm TRS jack, servo-balanced
- Output impedance: 75 Ohm unbalanced, 150 Ohm balanced
- Output level switchable Hi Gain, +4 dBu, -10 dBV
- Output level at 0 dBFS @ Hi Gain: +19 dBu
- Output level at 0 dBFS @ +4 dBu: +13 dBu
- Output level at 0 dBFS @ -10 dBV: +2 dBV

### DA - Stereo Monitor Output XLR (1-2):

As above, but:

- Output: XLR, balanced
- Output level switchable 24 dBu, Hi Gain, +4 dBu, -10 dBV
- Output level at 0 dBFS @ 24 dBu: +24 dBu
- Output level at 0 dBFS @ Hi Gain: +19 dBu
- Output level at 0 dBFS @ +4 dBu: +13 dBu
- Output level at 0 dBFS @ -10 dBV: +2 dBV
- Output impedance: 150 Ohm

### DA - Stereo Monitor Output Phones (9-12):

As above, but:

- Output: 2 x 6.3 mm TRS stereo jack, unbalanced
- Maximum output level at 0 dBFS, High: +19 dBu

- Maximum output level at 0 dBFS, Low: +2 dBV
- Output impedance: 2 Ohm
- Max power per channel @ 32 Ohm load, 0.1% THD: 210 mW (2.6 Vrms, +10.5 dBu)

### AES/EBU:

- XLR, transformer-balanced, galvanically isolated, according to AES3-1992
- Output level Professional 4.2 Vpp, Consumer 2.4 Vpp
- Format Professional according to AES3-1992 Amendment 4
- Format Consumer (SPDIF) according to IEC 60958
- Single Wire mode, sample rate 28 kHz up to 200 kHz

### ADAT:

- 2 x TOSLINK, format according to Alesis specification
- Standard: 2 x 8 channels 24 bit, up to 48 kHz
- Double Speed (S/MUX): 2 x 4 channels 24 bit 96 kHz
- Quad Speed (S/MUX4): 2 x 2 channels 24 bit 192 kHz

### SPDIF optical (ADAT 2):

- Format Consumer (SPDIF) according to IEC 60958
- Sample rate 28 kHz up to 200 kHz

### Word Clock:

- BNC
- Max. output voltage: 5 Vpp
- Output voltage @ 75 Ohm termination: 4.0 Vpp
- Output impedance: 10 Ohm
- Frequency range: 27 kHz – 200 kHz



<b>EAN:</b>	42 601236 311 6
<b>Weight:</b>	3 kg ( 6.6 lbs)
<b>Dimensions:</b>	(WxHxD): 440 x 44 x 210 mm (17.3" x 1.73" x 8.3") without rack ears/handles
<b>Package dimensions</b>	(WxHxD): 565 x 111 x 315 mm (22.2" x 4.37" x 12.4")
<b>Package Contents:</b>	- Fireface UFX II - Cable USB 2.0, 1.8 m (6 ft) - Power cord - Manual

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