

Fireface UFX II Differences to Fireface UFX

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Core differences to UFX

- **New housing design**
 - **More memory and faster DSP - Doubled Reverb times etc.**
 - **Improved DUREC USB functionality and Compatibility**
 - **Internal Realtime clock for DUREC**
 - **USB port for ARC USB**
 - **All new AD/DA converters**
 - **Optimized analog I/Os**
 - **Improved SNR and THD (see down below for the details)**
 - **PAD-free Mic circuit design with +18 dBu max input level and 74 dB Gain Range**
 - **Low impedance Hi-Power Phones outputs (2 Ohms)**
 - **Reworked power supply and power handling to reduce power consumption**
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The differences in specifications in detail:

AD, Line In 1-8, rear

Improved SNR (+ 3 dB). Improved high end frequency response, especially at 192 kHz.
Improved low end frequency response.

Fireface UFX

- Signal to Noise ratio (SNR): 110 dB RMS unweighted, 113 dBA
- Frequency response @ 44.1 kHz, -0.1 dB: 15 Hz – 21.5 kHz
- Frequency response @ 96 kHz, -0.5 dB: 7 Hz – 45.5 kHz
- Frequency response @ 192 kHz, -1 dB: 5 Hz – 66.5 kHz

Fireface UFX II

- 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

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Microphone In 9-12, front

Extended gain range with special RME technology.

Improved SNR by better level adaptation and new ADC.

Fireface UFX

- Signal to Noise ratio (SNR): 112 dB RMS unweighted, 115 dBA
- Gain range: 65 dB
- Maximum input level, Gain 0 dB: +12 dBu
- Maximum input level, Gain 65 dB: -53 dBu

Fireface UFX II

- 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
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Instrument In 9-12, front

Inst input impedance raised from 800 kOhm to >1MOhm.

Improved SNR by better level adaptation and new ADC.

Fireface UFX

- Input impedance: 800 kOhm
- Signal to Noise ratio (SNR): 112 dB RMS unweighted, 115 dBA

Fireface UFX II

- Input impedance: 1 MOhm
- Signal to Noise ratio (SNR): 114 dB RMS unweighted, 118 dBA

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DA, Line Out 1-8, rear

Lower THD and THD+N.

Fireface UFX

- THD: -104 dB, < 0.00063 %
- THD+N: -100 dB, < 0.001 %

Fireface UFX II

- THD: < -110 dB, < 0.00032 %
 - THD+N: < -104 dB, < 0.00063 %
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DA - Stereo Monitor Output Phones (9-12)

Better THD and THD+N. Changed whole DAC to phones circuit: optimized levels, switches and circuitry.

Driver stage changed from 30 Ohm to 2 Ohm impedance. Max out level raised from +17 to +19 dBu (same reference as the other line outputs).

Fireface UFX

- Maximum output level at 0 dBFS, High: +17 dBu
- Output impedance: 30 Ohm

Fireface UFX II

- Maximum output level at 0 dBFS, High: +19 dBu
- Output impedance: 2 Ohm
- Max power per channel @ 32 Ohm load, 0.1% THD: 210 mW (2.6 Vrms, +10.5 dBu)

Converter latency: AD unchanged, 12 samples. DA down from 28 (UFX) to 7 samples (UFX II).