



UAX220-MIC – Professional USB stereo interface

Key Workflow: Stereo USB Audio interface for voice recording applications

The UAX220-Mic is a professional stereo USB Audio interface designed for broadcast and other demanding pro audio applications that require high quality audio acquisition of microphone level signals. Because it is USB Audio compliant, it can be used with multiple computers (laptop or desktop) and third party software applications without installing a dedicated driver.

At a glance

UAX220-Mic offers 2/2 balanced analog high-quality I/Os. Thanks to the professional grade mic preamps and switchable +48V phantom power on each input, UAX220-Mic is the most efficient Pro Audio interface for portable use. Under its compact and sleek design, it combines Digigram's leading edge experience in audio performance with the ease of use of standard USB Audio.

Key features

- USB Audio stereo interface: no driver to be installed
- Self powered on USB
- Supported under Windows, Mac OS X, and Linux
- 2 balanced analog mono mic/line inputs, and 2 balanced analog mono outputs +10 dBu max signal level,
- Input gain adjustment from +20 dB to +55 dB with switchable -20 dB input attenuation
- 1 stereo headphone output with knob for gain adjustment
- Switchable zero-latency direct hardware monitoring (mixed with the playback)
- Push buttons for selection of +48V, pad, left+right mode, and monitoring

- Knobs for input gains and headphones gain adjustment
- Neutrik connectors (XLR, 6.35mm jack)

Configuration

- Bus/Format: USB 1.1, compatible 2.0
- Size: 144 mm X 87 mm X 34 mm, Integrated USB cable: 1.5 m, Integrated audio cable: 0.75 m
- Power consumption: 500 mA max
- Operating: temp / humidity (non-condensing): 0°C / +50°C • 5% / 90%
- Storage: temp / humidity (non-condensing): -5°C / +70°C • 0% / 95%

Inputs

- Analog line inputs (mono):
 - 2 balanced mic/line *with*:
 - professional high-quality preamps
 - switchable 48 V phantom power supply (mono)
- Maximum input level/impedance: +10 dBu / >10 kOhms
- Maximum sensitivity: -45 dBu

Outputs

- Analog line outputs (mono): 2 servo-balanced
- Maximum output level / impedance: +10 dBu / <100 Ohms
- Programmable output gain: from -60 dBr to +10 dBr, by steps of 1 dB
- Other outputs: 1 stereo headphones output with dedicated output stage and level adjustment knob (Maximum output power/minimum load: 2*40 mW / 32 Ohms)

Connectors

- **External connectors:**
 - Standard USB type A for connection with computer
 - 2 Neutrik™ XLR-3 female for Mic/line inputs
 - 2 Neutrik™ XLR-3 male for line outputs
 - Locking ¼" Neutrik™ female cable jack for headphones output

Audio specifications

- Sampling frequencies available: 32 / 44.1 / 48 kHz
- A/D and D/A converter resolution: 24 bits
- Supported audio formats: PCM (8, 16 et 24 bits, full-duplex)
- Operating modes: Either selected by application or user-selectable at a fixed resolution (modes selected via UAX Manager application)
- Monitoring: Zero latency hardware monitoring mixed with playback to the line and headphones outputs
- Monitoring control: On/off and mono/stereo push buttons

Analog audio performance

- Frequency response (record + play): 20 Hz – 20 kHz: ± 0.2 dB
- Channel phase difference: 20/20kHz: $< 0.2^\circ/2^\circ$
- Dynamic range (A-weighted):
 - Input: > 100 dB
 - Output: > 104 dB
- THD + noise 1 kHz at -1 dBfs:
 - Input: < -93 dB
 - Output: < -97 dB
 - Loop: < -92 dB
- Crosstalk (Analog in or out):
 - 1 kHz: < -110 dB
 - 15 kHz: < -95 dB
- Number of mic inputs: 2 analog mono with switchable 48V phantom power supply
- Programmable mic gain: $+20$ to $+55$ dB by knob with switchable -20 dB input attenuation
- 48 V power supply: 2×5 mA max
- Equivalent Input Noise, A/D-D/A at 48kHz, $G = +50$ dB: < -125 dBu

Development environments

- Supported operating systems: Windows, Mac OS X, Linux
- Management: Depending on the host operating system's implementation of the USB Audio specification: DirectSound, Core Audio, ALSA
- Additional management: Digigram np SDK through Virtual PCX Third-party Asio driver