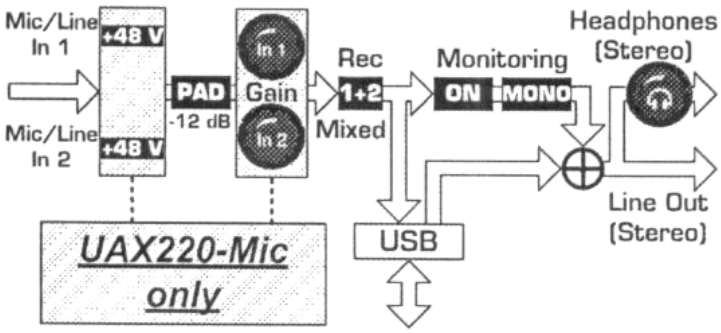
OPERATIONAL DESCRIPTION

1.1. UAX220v2 & UAX220-MIC description

Specifications	UAX220-Mic
CONFIGURATION	
Bus/Format	USB1.1 (compatible with USB2.0 ports) - Compliant with the USB Audio specification
Size	144 mm X 87 mm X 34 mm Integrated USB cable: 1.5 m - Integrated audio cable: 0.75 m
Operating: temp / humidity (non-condensing)	0°C / +50°C • 5% / 90%
Storage : temp / humidity (non-condensing)	-5°C / +70°C • 0% / 95%
INPUTS/OUTPUTS	
Analog inputs (mono)	2 balanced mic/line
Switchable 48V phantom power on each input	Yes, max current draw: 2*5 mA
Input gain	From 0 to 50 dB, two individual knobs
Maximum input level/impedance	Switchable between +22 dBu and +10dBu / >10 kOhms
Recording modes	Dual mono tracks or single stereo track Both inputs mixed to one mono track ("1+2" mode) Playback loop-back
Analog outputs (mono)	2 servo-balanced line
Maximum output level/impedance	+10 dBu / < 100 Ohms
Headphones output (stereo)	Dedicated output stage with level adjustment knob
Maximum output power/minimum load	2*40 mW / 32 Ohms
A/D and D/A converters resolution	24-bit / 96 kHz
Sampling frequencies available	32 kHz, 44.1 kHz, 48 kHz
Audio formats supported	PCM 8, 16, and 24 bits, full duplex
Audio operating mode	Either set by application or user-selectable fixed resolution
Monitoring	Direct input echo through DSP (no latency) Mixed with playback to line and headphone outputs
Monitoring control	On/off and mono/stereo
AUDIO PERFORMANCE MEASURED AT FS=48 KHZ	
Frequency response (In + Out)	20 Hz–20 kHz: ±0.2 dB
Channel phase difference	20 Hz-20 kHz: 0.2° / 2°
Dynamic range (A-weighted)	Analog input : > 104 dBA Analog output : > 104 dBA
THD + noise, ref 1 kHz at –1 dBfs	Analog input: <-97 dB Analog output: <-97 dB
Mic inputs E.I.N. (G=+50 dB)	< -125 dBu
Crosstalk (In + Out)	ref 1 kHz at 10 dBu: <–110 dB ref 15 kHz at 10 dBu: <–95 dB
CONNECTORS	
Audio connectors	Two Neutrik™ female XLR, two Neutrik™ male XLR and one Neutrik™ jack with lock
USB connector	Standard A-type, cable attached to the box
ENVIRONMENTS	
Operating system supported	Windows XP, 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

The UAX220v2 has no microphone inputs (compared to the UAX220-MIC), without the switchable 48V phantom power on each input (as shown on the following functional diagram).



Functional diagram

1.2. Related Submittal(s) / Grant(s)

All host equipment used in the test configuration are FCC granted, when relevant.

1.3. Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system are:

Trade Mark – Model Number (Serial number)	FCC ID	Description	Cable description
UAX220-MIC * (sn : 2595.00000001)	IGTUAX220MIC	Professional USB Audio Interface	I/O cable Ref: SC171900201-03 (USB and audio lines)
DELL, Model: SMM01 (sn: CNBX11J)	DoC	Personal computer	Power cord unshielded. All other cable shielded.
Hewlett Packard pn:D2846 (sn: JP74001000)	DoC	Monitor	Power cord unshielded. Video cable shielded with ferrites
Hewlett Packard pn:C3751B (sn: LZA62831217)	DZL211029	Mouse	PS2 cable (1.5m)
Hewlett Packard pn:C4734-60111 (sn: M990814763)	GYUR38K	Keyboard	PS2 cable (1.2m)
Hewlett Packard DESKJET 895cxi (sn: MY9761915S)	none	Parallel printer	Power cord unshielded. All other cable shielded.
Hewlett Packard HP48GX (sn: ID83802369)	none	Serial calculator	Serial cable shielded
DIGIGRAM - Audio Load Box (sn: none)	none	Load box	Earth wire (1.5m)
SENNHEISER - HD 433 (sn: none)	none	Headset	Audio cable (2m)

***: Equipment under test.**

1.4. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003, FCC Part 15 Subpart B.
Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.5. Test facility

Tests have been performed on May 22sd and July 28th, 2006.

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4-2003 in a letter dated July 14, 2005 (registration number 94821).
This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.