



## CANCEL 422-Mic –A mobile production toolbox

**Key Workflow:** On-the-go technicians, reporters and mobile production talents will enjoy its embedded mixer and seamless integration to their favorite editor or radio automation, particularly when coupled to audio-over-IP software on their laptop such as IQOYA V\*MOTE.

Production engineers can quickly set up high-quality Record/Play on a PC or Mac using CANCEL's LED-lighted touch panel and monitoring from zero-latency headphone mixer.

Live sound engineers appreciate CANCEL's AES/EBU and analog interfaces, which Play/Record up to 4+4 channels simultaneously. During sound system set up, operators can count on the card's linearity and the settings control enabled by main audio measurement applications.

### At a glance

Built on a long tradition of uncompromising equipment, CANCEL is a high-performance sound card that embeds native USB Audio 2.0 streaming, mixing and processing in an ultra-robust yet stylish casing. This professional toolbox is ideal for any Broadcast or live event application on a PC or Mac.

### Key features

Ultra-robust and compact form factor in slim, streamlined design

- Best-in-class audio performances:
  - excellent Mic preamp (+55 dB gain, -105 dB THD+N, -126 dB EIN)
  - professional analog level max +25 dBu
  - guaranteed low latency (< 4 mS)- excellent Mic preamp (+55 dB gain, -105 dB THD+N, -126 dB EIN)
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  - guaranteed low latency (< 4 mS)

- Zero latency embedded mixer
- A mobile toolbox:
  - simultaneous AES/EBU and analog connectivity
  - up to 8/8 I/Os
  - USB Audio Class 2.0 compliant for control from PC, Mac OS and iOS Apps –
  - stand alone A/D & D/A converter mode
- Neutrik XLR connectivity and break-out cables

## Configuration

- Bus/Format USB 2.0 / Compliant with the USB 2.0 audio specification
- Size 254 mm x 96 mm x 36 mm
- Operating: Temp / Humidity 0°C to +50°C / 0 % to 90 % (non condensing)

## OVERALL AUDIO

- A/D and D/A converters 24-bit / frequency : 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 192 kHz
- Audio formats supported PCM 8, 16, 20, and 24 bits, full duplex
- Latency 3.4 mS
  - analog-to-PC or PC-to-Analog (Windows 7 / 64 bits) 3.8 mS
  - analog-to-MAC or MAC-to-Analog (Mac OS X 10.6.8)
- Channel phase diff. (A/D and D/A)  $\pm 0.2^\circ$  (20 Hz – 20 kHz)

## INPUTS

- Analog inputs (mono) 2 (222-Mic) or 4 (442-Mic) balanced Mic/Line inputs
- Digital inputs (stereo) 1 (222-Mic) or 2 (442-Mic), AES/EBU (AES3-2003) compliant
- Switchable 48V phantom power 7 mA Max on each input\*\*
- Analog input gain
  - From 0 to 55 dB by 1 dB steps,
  - switchable Pad 30.0 dB
- Input sensitivity 0 dBfs adjustable from -30 dBu to +25 dBu (Line) and -60 dBu to -5 dBu (Mic)
- Maximum input level/impedance Line: +25 dBu / > 3.5 kOhms; Mic: -5 dBu / > 2 kOhms
- Frequency response (A/D Input)
  - at 48 kHz: 20 Hz–20 kHz +0/-0.5 dB
  - at 96 kHz: 20 Hz–40 kHz +0/-0.6 dB
  - at 192 kHz: 20 Hz–80 kHz +0/-2.0 dB S/N
- Analog input, typical S/N: 108 dB unweighted and 111 dBA @48 kHz THD+N
- Analog input, typical < -105 dB unweighted and -107 dBA / 20 Hz-20 kHz, @48 to 192 kHz ref 1 kHz at -3 dBfs
- Mic inputs E.I.N., typical < -128 dB / Zsource = 40 Ohms; Pad Off; gain 55 dB

## OUTPUTS

- Analog outputs (mono) 2 (222-Mic) or 4 (442-Mic) balanced
- Line outputs Digital outputs (stereo) 1 (222-Mic) or 2 (442-Mic) outputs, AES/EBU (AES3-2003) compliant
- Maximum analog level/impedance at 48 kHz: +10 dBu / 2x33 Ohms
- Frequency response

- at 48 kHz: 10 Hz–20 kHz +0/-0.1 dB
- at 96 kHz: 10 Hz–40 kHz +0/-0.3 dB
- at 192 kHz: 10 Hz–80 kHz +0/-1.3 dB
- S/N Analog output, typical > 111 dB unweighted @48 kHz
- THD+N Analog output, typical < -98 dB unweighted / 20 Hz-24 kHz @48 kHz to 192 kHz, ref 1 kHz at –3 dBfs
- Headphones output (stereo)
  - Dedicated output stage,
  - > 10 mW from 32 to 600 Ohms 10Hz-20 kHz +-0.1 dB;
  - Dynamic range: 93 dB @32 Ohms, typical

## **CONNECTORS**

- Audio connectors One XLR female for left input channel
- Sub-D 25 pts (222-Mic) or 44 pts (442-Mic) for all analog and digital I/Os 6.35 mm jack for stereo headphone output
- Neutrik XLR breakout cable included USB connector Standard, includes two A-type on PC side, one mini-B USB on card side

## **MIXER AND PROCESSING**

- Analog-to-AES/EBU Bridge In Stand-alone mode
- AES/EBU-to-Analog Bridge In Stand-alone mode
- Embedded Mixer Zero-latency headphone Mixer

## **ENVIRONMENTS**

- Operating system supported Windows 10, 8, Windows 7 (32 and 64 bits), Vista, Windows XP, Mac OS X, Linux
- Management: depending on the host operating system's implementation of the USB Audio 2.0 specification. Microsoft Windows management is provided through DirectSound, Core Audio, WASAPI third-party ASIO driver.