



Tubeopto 8™

8-CHANNEL TUBE MICROPHONE PREAMPLIFIER / OPTICAL INTERFACE

Overview

The ART TubeOpto 8™ is the ideal Eight Channel input / output expander for any ADAT lightpipe equipped audio interface, direct-to-disc recorder or DAW. Eight high quality second generation discrete Class-A vacuum tube microphone preamps are packaged in a single rack space unit with eight channel 24-bit digital I/O.

Every input on the TubeOpto8 offers full control of the signal path with pad, phase and low frequency roll-off switches. Input gain and variable output level control of each channel allows up to 70dB of clean gain with incredible sonic transparency or for the tube stage to be dialed in for warming effects and soft clipping. Each channel has wide range LED meters monitor the preamp output levels while clip indicators monitor mic-preamp peak levels. ADAT lightpipe I/O handles eight channels of 24-bit audio input and output at either 44.1 or 48 kHz sample rates. Wordclock in and thru-puts allow multiple Tubeopto8's to be synced in complex system configurations.

Key Features

- Eight Fully Featured Class-A Tube Mic Preamps
- Input Gain and Output Level Controls on Every Channel
- Two Additional Front Mounted High Impedance Instrument Line Inputs
- Eight Channels of ADAT lightpipe Digital 24 Bit Audio I/O at 44.1 or 48kHz
- Input Pad, Phase flip and Low Frequency Roll Off Switches on Every Channel
- Eight 1/4-inch TRS Balanced Outputs



Tubeopto 8™ SPECIFICATIONS

Input Impedance

Mic..... 6.4K Ohm
Line 20K Ohm
Instrument 2.5M Ohm

Output Impedance

Balanced outputs..... 200 Ohm balanced

Frequency Response

Analog in to Digital out 12Hz - 20KHz +0, -1dB @ 44.1 KHz sample rate

THD

1KHz ≤ .015% @ -30dB ref clipping
20-20KHz ≤ .033%

HPF 80Hz, 1-pole

Equivalent Input Noise

Mic/Line -130dBu, input shorted, max gain, "A" wtd.
Instrument -105dBu, input shorted, max gain, "A" wtd.

Maximum Input Level

Mic/line +18dBu balanced w/pad
Instrument +15dBu
Meter clip light -2dB ref. A/D clip (0dB FS)

Maximum Gain

Mic..... 64dB
Instrument 36dB

Maximum Output level

Balanced +20dBu (+4dBu setting)
Unbalanced +14dBu (+4dBu setting)
Output level switch Lowers output by 10dB @ -10dBV setting

Wordclock Range 40KHz - 52KHz

Sample Rate Settings..... 44.1KHz, 48KHz, ADAT, Wordclock

A/D Dynamic Range..... 105dB ("A" wtd.)

D/A Dynamic Range..... 105dB ("A" wtd.)

A/D Latency 0.667ms(48KHz), 0.725ms(44.1KHz), 32 samples

D/A Latency 0.458ms(48KHz), 0.500ms(44.1KHz), 22 samples

Dimensions 1.75"H x 19.0"W x 14.4"D (44.5mm x 482.6mm x 365.8mm)

Weight..... 13.2 lbs. (6kg)

Power Requirements..... USA – 105-125VAC, AC 60Hz, 29Watts typical, Export units configured for country of destination.

Minimum System Requirements ADAT interface port

Note: 0 dBu = 0.775V RMS, 0dBV = 1V RMS

ART maintains a policy of constant product improvement. ART reserves the right to make changes in design or make additions to or improvements upon this product without any obligation to install the same on products previously manufactured. Therefore, specifications are subject to change without notice.