

NANOAMP SERIES™ DIGITAL MONITOR

DM200

ATI NANOAMP™ Problem Solvers are a compact, convenient and rugged series of low cost meters, mixers, microphone, distribution, summing, interface and headphone amplifiers. Compatible packages let you mix and match. Use them free standing, pack them, stack them or rack mount one, two or three across with convenient NANOAMP™ accessories.

The DM200 Digital Monitor accepts loop-thru AES/EBU format digital audio data via 110 Ohm XLR and 75 Ohm BNC and RCA connectors. A 24bit, 96kHz D/A converter feeds stereo headphone drivers, balanced audio line outputs and a stereo LED meter. Input sample rates of 32, 44.1, 48, 82.2 and 96kHz are decoded and indicated with a front panel display. A data VALID light indicates that there have been no data or transmission errors.

Bright, stereo, two color LED meters are switchable to the D/A converter output and indicate headroom down from 0dBFS (the digital maximum output of the D/A) in ten 3dB steps. The meters also read the balanced line output level with 0dB midscale equal to +4dBm output. Display ballistics are PPM for optimum indication of audible peaks.

- Accepts sample rates from 27 to 96kHz
- Transformer Isolated Loop-thru Inputs
- Sample Rate Display
- Signal Valid Indicator
- 24 Bit D/A Converter
- D/A and Line Output Metering
- Stereo Headphone and Line Outputs
- Parallel power connectors permit multiple units to run from single power supply



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Technical Specifications

INPUT	
DATA FORMAT	AES/EBU, 27 to 96kHz sample rate
LEVEL	.1 Vp-p minimum
IMPEDANCE	Transformer isolated, balanced and floating, XLR 110 Ohms, BNC/RCA 75 Ohms; terminations may be switched off for loop-thru operation
CONNECTORS	XLR or BNC/RCA (Front panel selection)
OUTPUTS	
D/A CONVERTER	16 to 24 bit conversion
HEADPHONE	Drives 32 to 600 ohms stereo headphones to 100mW peaks, 1mW nominal; front panel ¼" phone jack and volume control
LINE LEVEL	Balanced, +24 dBm peak, +4dBm nominal, 600 ohms; drives balanced or unbalanced line; individual left and right front panel gain controls
FREQUENCY RESPONSE	20 to 20kHz, ±0.25dB
DISTORTION	.10% at peak levels, .01% at nominal levels, 20 to 20kHz
CONNECTOR (LINE)	Two piece screw clamp, Phoenix™ type.
INDICATORS	
SAMPLE RATE	LED display indicates 32, 44.1, 48, 88.2, or 96kHz; all dark indicates no signal
SIGNAL VALID	LED Green indicates no signal or transmission errors
POWER ON	LED Red indicates power is present and unit is operating
METERING	
	Stereo, 10 segment, two color PPM displays are switchable to monitor the D/A converter output or the analog line output
DIGITAL D/A OUT	-27, -24, -21, -18, -15, -12, -9, -6, -3, 0dBFS, with 0dBFS = digital clipping
ANALOG LINE OUT	-15, -12, -9, -6, -3, 0dB, +3, +6, +9, +12 PPM with 0dB = +4dBm output
SIZE	1.72" (4.4cm) H x 5.75" (14.6cm) W x 6" (15.2cm) D
WEIGHT	1.5 lbs (0.7kg) net
POWER	24VDC nominal at up to .2A from external power supply
POWER SUPPLIES	
WA100-1	Wall mount power supply (UL, CSA), 24VDC @ .4A output, 115 VAC/60 Hz, 16VA input (included)
WA100-2	Table top supply, IEC 320 AC connector, 24VDC @ .4A out, 230VAC/50 Hz, 16VA input (exchange for WA100-1)
20602-1	Loop-thru DC interconnect cable, 13" long
WARRANTY	Limited, One Year Warranty