

# NANOAMP SERIES™ DIGITAL MONITOR

DM200

NANOAMP™ PROBLEM SOLVERS from ATI are compact, convenient and rugged series of low cost meters, mixers, microphone, distribution, summing, and 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**
- **Loop-thru Inputs, Transformer Isolated**
- **Signal Valid Indicator**
- **24 Bit D/A Converter**
- **D/A and Line Output Metering**
- **Stereo Headphone and Line Outputs**



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## Technical Specifications

<b>INPUT</b>	
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)
<b>OUTPUTS</b>	
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 to ±.25Db
DISTORTION	.10% at peak levels, .01% at nominal levels, 20 to 20kHz.
CONNECTOR (LINE)	Two piece screw clamp, Phoenix™ type.
<b>INDICATORS</b>	
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; Front panel POWER switch and indicator LED – Red
<b>METERING</b>	
	Stereo, 10 segment, two color PPM displays are switchable to the D/A converter output or to the analog line output.
<b>DIGITAL D/A OUT</b>	
	-27, -24, -21, -18, -15, -12, -9, -6, -3, 0dBFS, with 0dBFS = digital clipping.
<b>ANALOG LINE OUT</b>	
	-15, -12, -9, -6, -3, 0dB, +3, +6, +9, +12 PPM with 0dB = +4dBm output.
<b>SIZE</b>	
	1.72(4.45)H X 5.75(14.6)W X 6.0(15.21)D; 1.5 lbs., .7Kg net
<b>POWER</b>	
	24VDC nominal at up to .2A from external power supply, WA100-1, -2 or -2E.
<b>POWER SUPPLIES</b>	
WA100-1	Wall mount power supply (UL, CSA), 24VDC @ .4A output, 115 VAC/60 Hz, 16VA input.
WA100-2	Table top supply, IEC 320 AC connector, 24VDC @ .4A out, 230VAC/50 Hz, 16VA input.
20602-1	Loop-thru DC interconnect cable, 13" long.
<b>WARRANTY</b>	
	Limited, One Year Warranty