

Test and Monitor AES Audio On the Go



ATI DIGITAL AUDIO **Portable Digital Audio Monitor** **Model DM500**

The **DM500** is both a Digital Audio Monitor and a Digital-to-Analog converter in a portable carry case. It accepts AES/EBU and S/PDIF digital audio formats from 27 through 96 kHz sample rates via XLR, BNC and RCA connectors. A 24-bit D/A converter feeds a powerful stereo headphone monitor amplifier, balanced analog line outputs and a stereo LED meter.

The DM500's display tells you everything you need to know about your digital audio signal including input level, sample rate, validity and errors. The stereo level meter can be switched to indicate either headroom below 0dBFS (the digital maximum output of the D/A) or the analog output level with 0dB midscale equal to +4dBm output. Analog display ballistics are PPM for optimum indication of audio peaks.

The DM500 is ideal for digital signal troubleshooting on the go, but is equally at home on the bench or in your rack. Audio loop-thru connectors let you insert the DM500 into your digital signal path, with switchable input termination also provided. The included battery clip keeps you going in the field, or you can use an available external 24VDC power supply for 24/7 operation.

If you work with digital audio, you need the DM500. To order yours, contact ATI or your authorized ATI Distributor.

DM500 Features and Benefits

- Displays level, sample rates to 96 kHz and digital faults
- Accepts AES3 and S/PDIF digital audio on XLR, BNC or RCA connectors
- Loop-thru outputs for in-line monitoring; switchable input termination
- Carry case with strap and battery power
- 24-bit D/A converter with headphone jack and balanced audio output
- Desktop and rack mounting with AC power available

DM500 TECHNICAL SPECIFICATIONS:

INPUTS

DATA FORMATS	AES/EBU and S/PDIF, 27 to 96kHz sample rates
LEVEL	0.1 Vp-p minimum
IMPEDANCE	Transformer isolated, balanced and floating, XLR 110 Ω , BNC/RCA 75 Ω ; terminations may be switched off for loop-thru operation
CONNECTORS	XLR or BNC/RCA (front panel selection), paralleled for loop-thru expansion

OUTPUTS

D/A CONVERTER	16 to 24 bit conversion
HEADPHONE	Drives 32 to 600 Ω stereo headphones (TRS) to 100mW peaks, 1mW nominal; front panel 1/4" 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	20Hz to 20kHz \pm .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 if incoming signal is within +1 to -4% of standard; all dark indicates no signal
SIGNAL VALID	Indicates that signal is free of transmission errors
BI-PHASE ERROR	Indicates incorrect bi-phase signal coding
CRC ERROR	Cyclic Redundancy Check (CRC) value calculated for the receiver signal does not match the CRC byte of the channel status word
NO LOCK ERROR	Signal contains no data or is corrupted beyond recoverable limits
PARITY ERROR	Indicates a parity error due to mismatched ones and zeroes in the audio data subframe
POWER ON	Indicates power is on and unit is operational

METERING

DIGITAL D/A OUT	Stereo, LED, switchable between D/A converter and analog line output
ANALOG LINE OUT	Headroom indicators for 0, 6, 12, 15, 18 and 24dB, with 0dBFS = digital clipping

SIZE

2.75" (7cm) H x 6.25" (15.9cm) W x 8.5" (21.6cm) D

WEIGHT

3 pounds (1.4kg) net; 4 pounds (1.8kg) shipping weight

POWER

4 x 9-volt batteries required for portable operation (not supplied); loop-thru power connectors; order accessory power supply WA100-1 for 120VAC 60Hz; use WA100-2 for 230VAC 50-60Hz

WARRANTY

Limited, One Year Warranty

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MODELS AND ACCESSORIES AVAILABLE:

DM500	Complete portable unit, as described
DM500-1	Desktop mounting, includes external 120VAC power supply
DM500-2	Desktop mounting, includes external 230VAC power supply
21075-501	19" 1RU Rackmount, holds three DM500 units
21097-501	1/3 Rackmount Filler Panel
20602-1	DC power loop-through cable



DM500 rear view