



MIRAGE 5 Evo

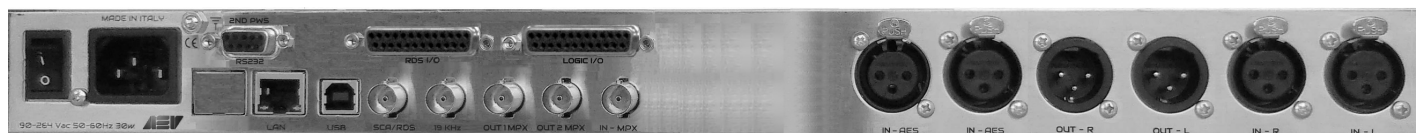
AEV DIGITAL AUDIO FIVE-BANDS BROADCAST PROCESSOR



FRONT

Digital AES/EBU Inputs & Outputs
Balanced Analog Inputs & Outputs
AES/EBU standard, 24bit resolution
Ultra-Low Latency Structure (< 3 ms delay)
Five-Bands compressors process
Dual-bands AGC control
Phase Rotator
Loudness control function
Outputs configuration to HD process
Automatic inputs switcher with blank detector
DSP processing powered
Composite Limiter integrated

Digital Stereo Coder
Two Composite MPX outputs
Radio Data System encoder
RDS Data decoder
Display Color TFT
Ethernet control
Speech detector
Stereo Enhancer
Ethernet port RJ45
Serial ports USB & RS232
SNMP Protocol
Pilot level is Software controlled



REAR

ADVANCED TECHNOLOGY FOR EXCELLENT RESULTS

Mirage 5 Evo is the latest AEV's digital audio processor, excellent audio process with FIVE-bands and competitive price.

Mirage 5 Evo is available with stereo encoder and RDS coder for broadcast applications that has been designed using highly innovative technology.

With the Web server on-board, you can manage also in remote mode all features of the equipment, with a fully and sure control.

The result is the most advanced that a stereo broadcasting system can offer, with an exceptional array of features. Besides guaranteeing excellent stereo separation between channels, AEV's Digital Stereo Encoder ensures a transparency of sound never before reached, whilst maintaining exceptional stability.

As AEV tradition, a product always completely Made in Italy, with the use of the most advanced technologies, achieving the result that respects the AEV philosophy: Quality, Innovation and Reliability over time.

Technical details

Frequency response
Stop band rejection
Separation
Total distortion
L/R cross talk
S/N (Signal to noise)
Operation Mono mode
A/D Conversion:

20Hz ÷ 15 KHz +/- 0.5 dB
> 80 dB beyond 1 KHz
≥ 55dB, 20-15K Hz
< 0,005 %
≤ -74dB, 20Hz-15KHz
-80dBu
L+R, only R, only L
24 BIT 128x OVERSAMPLED DELTA SIGMA CONVERTER WITH LINEAR-PHASE ANTI-ALIASING FILTER

ANALOG AUDIO INPUT

Configuration
Impedance
CMRR
A/D Conversion
Sensitivity
Maximum input level
Connector

Left and Right
10 KΩ / 600Ω balanced
> 75 dB from 30 to 20 KHz
192 kHz sample rate
±13dBu
+15 dBu
XLR-type, female,
Pin 1 Chassis Pin 2 & 3 electronically balanced, floating and symmetrical

DIGITAL INPUT

Digital input configuration
Digital AES 3 Input Impedance
Digital AES 3 Input Connector
Sample Rate Automatic lock
Resolution

AES 3 Standard professional (IEC-60958)
110 Ω Balanced
XLR Female
32 - 44.1 - 48 - 96 - 192 KHz
24 Bit

ANALOG AUDIO OUTPUT

Configuration
Impedance
Minimum load impedance
Maximum output level
CMRR Output:
Distortion
Connector

Left and Right. Flat or pre-emphasized (50μS – 75μS)
50 Ω electronically balanced and floating
600 Ω
-2 to +22 dBu
>80 dB (20Hz-20kHz)
< 0.01% THD
XLR-type, male
Pin 1 Chassis
Pin 2 & 3 electronically balanced, floating and symmetrical

DIGITAL OUTPUT

Digital Output Sample Rate
Resolution
Digital Output configuration
Digital Output Impedance
Digital Output Level range
Digital Output Connector

Software Selectable 32 - 44.1 - 48 - 96 - 192 KHz
24 BIT 128x OVERSAMPLED
stereo AES 3 Standard Transformer Balanced (IEC-60958)
110 Ω Balanced
0,0 dBfs ÷ -36 dBfs adjustable
XLR Male

STEREO GENERATOR (version MPX only)

Configuration
Pilot freq.
Pilot injection
Distortion
Noise signal ratio
Stereo separation
38 kHz subcarrier suppression
76 kHz suppression
Composite audio level
Connectors
Output impedance

two outputs, Composite Baseband output level software controlled
19 KHz ± 0.001% Max over temp.
+4 ÷ 18 % Software controlled
< 0.005 % @1 kHz
-80 dB (Din Audio, Bypass mode) Typical
78 dB Typical
>85 dB
>85 dB
0 ÷ 15dB Software controlled
2 x BNC
50 Ω

12.7 DATA

Data Input
Format
Serial Transmission Speed
Connector
Data management

Full duplex
Selectable
2400 ÷ 19600 baud
RJ45 / RS232/ USB
Microprocessor controlled
No volatile memory Flash data retention 10 years
Ethernet / RS232- at rear, asynchronous

Terminal Interface

12.8 Logic I/O

Connector

DB15 cannon female

12.9 GENERAL

Mains Voltage
Redundant PWS (optional)
Dimension
Weight
Operating Temp.
Operating Humidity.

90 – 260 Vac / 50 Hz full range
90 – 260 Vac / 50 Hz full range
(WxHxD) 48,3 x 19,4 x 4,4 cm 1 rack unit
3,9 Kg.
0 ÷ 50° C.
Max 95% no condensing

