

Mamba Technical Specification

Stage "Head" Box:

Maximum input level = +22 dBu
SNR=101 dB
THD+N (1kHz @ -1dBFS) = 0.0026%

Latency:

Digital snake delay (I2S-I2S) is less than 200 microseconds
End to end Analog delay = ~ 800 microsec @ 96K and ~1.2 ms @ 48k

Audio Connectors (DB25):

DTF / DTP / DTM-800 Series from Hosa compatible with TASCAM & FOSTEX

Ethernet Connectivity:

100 Mbps Full-Duplex Transmission
Built in cable redundancy in case of cable failure
CAT-5 Cable up to 140 meters or 450 feet
CAT-5 cable TIA/EIA -568-A ISO/IEC 11801 - 24 AWG UL Type CM/MP
Neutrik Ethercon connector for durability

Link 1 / FoH

Medianet synchronized Audio over CAT-5
Neutrik RJ45 for ruggedized RJ45 connectors
Standard CAT-5 or CAT-6 cable
Up to 140 m or 450 feet over a standard CAT-5 (UNH test lab certified)
Point to point Mode operates as Link 1 (Main Link)
Split Mode operates as a Link to FoH
100 Mbps Ethernet
Max 64 X 64 bi-directional channels @ 48K
RS232 control as well as Aux 1 over a single CAT-5

Link 2 / Mon

Medianet synchronized Audio over CAT-5
Neutrik® RJ45 for ruggedized connectors
Standard CAT-5 or CAT-6 cable
Upto 140 m or 450 feet tested over a standard CAT-5 (UNH test lab)
Point to point Mode operates as Link 2 (Redundant CAT-5)
Split Mode operates as a Link to Mon Mix
100 Mbps Ethernet
Max 64 X64 bi-directional channels and control & Aux 1 over a single CAT-5

RS232

Pass thru RS232 from FoH to Stage or Stage to FoH
Bi-directional
19200 Kbps, 8 data bits, no parity, No flow control
DB9 connector (Female)
(use for Remote control or any other control device that has RS232)

Aux1:

2 pair of CAT-5 available for any use
Pass thru over Link 1 / FoH CAT-5
RJ45 Neutrik Ethercon or XLR F/TRS combo or XLR M (Options)
RJ45 - 1,2,3,6 - Use for LAN or IP traffic
XLR - Hot, cold, and Ground Use for Intercom, Analog pass thru
Available only when direct CAT-5 is connected between mamba boxes
(won't work if any Ethernet switches in the middle)

Aux 2:

2 pair of CAT-5 available for any use
Pass thru over Link 2 / Mon
RJ45 Neutrik Ethercon or XLR F/TRS combo or XLR M (Options)
RJ45 - 1,2,3,6 - Use for LAN or IP traffic
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