

Messenger Portable Decoder (MPD)

MPEG-2 Digital Audio/Video Decoder

COBHAM

The most important thing we build is trust.



MPD



MPD with MSR Mounted

Key Features

- Broadcast Quality 4:2:2 MPEG-2 Decoder
- Low Delay
- Compact Design
- Designed to mate with MSR
- Runs on 12 VDC

The GMS Messenger Portable Decoder (MPD) is a compact professional 4:2:2 MPEG-2 digital audio/video decoder that is designed to be a companion to GMS' MSR Diversity Receiver. A mounting plate is provided that allows the MSR to be mounted on top of the MPD. Two fans in the MPD provide cooling for both the MPD and the MSR. The ASI output of the MSR is feed into the MPD, which receives the MPEG2 TS stream, decodes it and output signals via analog video/audio ports, SDI/AES ports. These units can be controlled via either the RS-232C or USB control ports. An optional 19-inch Rack-Mounted shelf is available that can mount up to two MPD/MSR in just 5.25" of rack space. Additionally, an optional in-line AC/DC power supply is available.

When used in conjunction with GMS' MDT-B transmitter and MSR receiver, system latencies down to 2-3 frames are provided. The combination of Broadcast Quality Audio/Video and ultra-low latency make this system perfect for sports and ENG applications!

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Specifications:

Audio/Video Decoding

Support ISO13818-1 TS demultiplexing (up to 32PID)
Support ISO13818-2 (Main Profile @ Main Level and 422 Profile @ Main Level) video decoding
Support ISO11172-3 and ISO13818-3 audio decoding, provide simultaneous 2 pairs of stereo (4 channels) decoding
Support graphic display up to 16 bits/pel (OSD)

Transport Stream

Input

Type: DVB-ASI via BNC-F (Rear Panel)
Rate: 1 b/Sec to 213 Mb/Sec
TS Demultiplexing: In accordance with ISO13818-1 with up to 32 PIDs.

Output

Type: DVB-ASI loop via BNC-F (Rear Panel)
Rate: 1 b/Sec to 213 Mb/Sec

Video Decoding

Type: MPEG-2

Standard: Supports ISO13818-2

Profiles: Main Profile @ Main Level, Simple Profile @ Main Level and

422 Profile @ Main Level

Decoding Rates: 4:2:2 [P@ML\(1.5-50MHz\)](#)

4:2:0 [MP@ML\(1.5-15MHz\)](#)

4:2:0 [SP@ML\(1.5-15MHz\)](#)

GOP Length: From adapt to input TS

Video Outputs

Analog Video

Interface: Qty 2 CVBS w/OSD (Rear – BNC-F, Front – BNC-F)

Video Format: PAL-B/G/I/M/N/D, NTSC, and SECAM L/B/G/K1

Screen Proportion: 4:3/16:9

Graphic Process: OSD,

Support graphic display up to 16 bits/pel (OSD)

Synchronization Information (Via DB-9M on rear panel)

Video Synchronous Output SYNC Synchronous line/field/frame output synchronous lock output 27M reference clock output

Digital Video

Interface: Qty 1 - SDI via BNC-F

Audio Decoding

Standard: Supports ISO11172-3 and ISO13818-3 audio decoding

Number of Outputs: simultaneous 2 pairs of stereo (4 channels) decoding

Audio Outputs

Analog Audio: 2 channels stereo, balanced via XLR-M on rear panel

2 channels stereo, un-balanced via

RCA-F on front panel

Digital Audio: 1 channel of AES/EBU-SPDIF via BNC-F on rear panel

Status Indicators (Front Panel)

LEDs: On/Standby, Decoder Lock Status, ASI Signal Present

Control

RS-232C via DB-9M on rear panel

USB-1 via USB-Type A on rear panel

Software: MS Windows Graphical User Interface

Application (Windows 2000 & XP compatible.)

Electrical Features

Power Supply: 9 to 17 VDC (External In-Line AC PWR Supply Optional)

Power Consumption: < 45W

Pin1 and Pin 6 (9-17VDC)

Pin 5 and Pin 9 (GND)

Physical

Dimensions: 8.5" (W) x 8.5" (D) x 1.0" (H)

21.6 cm x 21.6 cm x 2.54 cm

Weight: 3.65 lbs (1.656 kg)

Environmental Conditions

Operating Temperature: 0° C ~50° C

Storage Temperature: -20° C ~80° C

Comparative Humidity: 10% ~ 90%, non-condensing