



off to new shores

MVD500

MPEG-2 HD Source Decoder (19")

**YOUR PARTNER
FOR PROFESSIONAL
HD SOLUTIONS**

The MVD500 is a professional MPEG-2 HD Source Decoder optimized for monitoring applications in a Broadcast environment.

The video decoder supports all video formats used in the Broadcast arena worldwide (ARIB, ATSC, DVB). A dual audio decoder architecture allows monitoring of two audio services simultaneously (e.g. Stereo + Surround Sound). Audio decoding is configurable for MPEG, AAC and opt. AC-3 audio.

Decoded video is provided onto two SDI outputs, in native format and in up/down-converted format. Digital audio is output onto 8ch AES3id and also embedded into both SDI signals.

The software on the embedded processor improves the hardware upon capabilities like automatic configuration and remote control. Programmable hardware aside to pure MPEG-2 decoding allow to customize functionalities on-site by software update.

The MVD500 is the newest member of Mikrom's product family of Professional Source Decoders (MVD).

KEY FEATURES

MPEG-2 MP@HL Hardware Decoder

Supporting ARIB, ATSC and DVB

True 80 Mbps video bit rate

Native and up/down-converted video output

Dual video output (SD-SDI, HD-SDI)

Dual audio decoder (MPEG, AAC, opt. AC-3/DTS)

Quad audio output (8ch AES3id)

Audio embedded into both SDI

Upgrade/customizing by software

APPLICATIONS

Broadcast

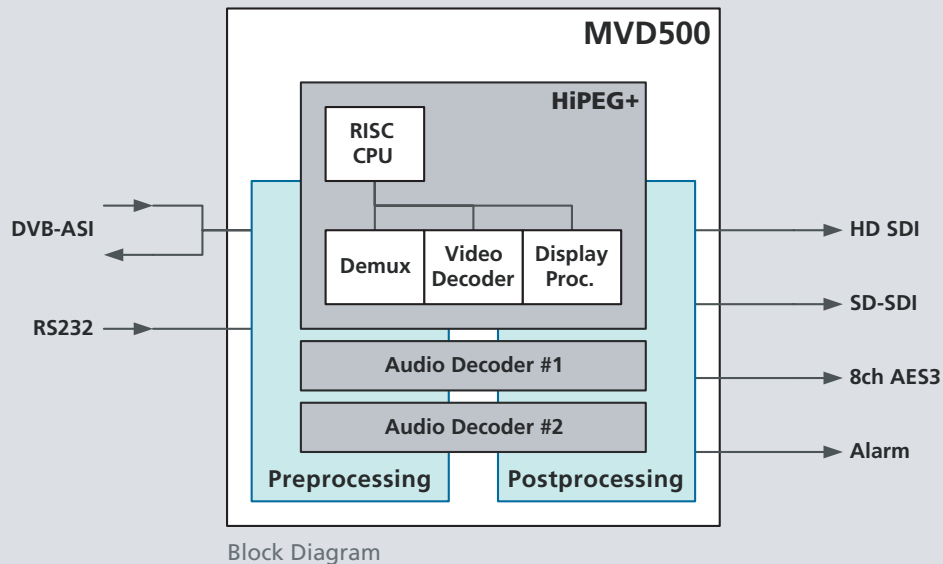
Monitoring

R&D, Test



MVD500

	RGB	DVI	SDI	Applications
MVD400	●	●	HD	Broadcast, D-Cinema
MVD401	●	●	-	„Nice Price“
MVD500	-	-	SD+HD	Broadcast, Monitoring



TECHNICAL SPECIFICATION

VIDEO DECODING AND FORMATS

MPEG-2 MP@HL (ISO/IEC 13818) TS
 1080/60i, 1080/50i, 720/60p, 720/50p,
 576/50p, 576/50i, 480/60p, 480/60i
 (Other formats on request)
 1/1.001 frame rates supported
 Native and up/downscaled video output

AUDIO DECODING

Dual audio decoder
 (MPEG, AAC, opt. AC-3 / DTS)
 Various channel configurations,
 up to Stereo + Surround Sound

DECODER CONTROL

Automatic/Manual decoder
 configuration
 Automatic/Manual channel
 selection
 Remote control (RS232)
 Local control (Front panel)

INPUT

TS Input: DVB-ASI, 1 BNC

OUTPUT

TS Thru: DVB-ASI, 1 BNC
 Digital Video Output:
 HD-SDI (SMPTE292M), emb. audio
 (SMPTE299M), 1 BNC
 SD-SDI (SMPTE259M), emb. audio
 (SMPTE272M), 1 BNC
 Digital Audio Output:
 AES3 (SMPTE276M), AES3-id, 4 BNC

PHYSICAL AND POWER

Form factor: 1RU 19"
 Dimensions: 484 x 445 x 253 mm
 (19 x 1.8 x 10 in)
 Weight: 2.7 kg/5.7 lbs
 Power: 100 - 240 VAC, 50/60 Hz, 20 W

OPERATING CONDITIONS

Temperature: 0°C to 45°C (32°F to 113°F)
 Rel. Humidity: 5 to 90% (non-cond.)
 Cooling: Forced airflow cooling

COMPLIANCE

CE, CSA, FCC

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