

# HMR Series Professional Video Receivers

## Features

- SD and HD decoding
- MPEG-2 and MPEG-4 decoding
- 4:2:0 and 4:2:2 decoding
- Video resolution conversion
- Aspect ratio conversion
- SDI and NTSC/PAL composite SD output
- 3G-HD-SDI, HD-SDI, HDMI or analog HD output
- AES, Embedded and Analog audio output
- ASI, DVB-S, DVB-S2, MPEG over IP, and DS3/E3 Input options
- Eight audio channels
- MPEG, AAC, AC3, Dolby® E or uncompressed audio support
- Full front panel control
- Remote control via SNMP, Web browser or command line interface
- PGCA, BISS 1 and E decryption
- Genlock (frame sync) option
- Companion product to the TITAN MPEG Video Encoder

**A series of rugged, compact, multi-format professional IRDs, the HMR5440 and HMR5442 Professional Video Receivers are used in broadcast contribution and distribution applications where multiple video formats (SD and HD), interface flexibility (Satellite and IP) and content protection (BISS) are required.**

## Performance

The HMR series offers an unprecedented combination of features, performance and reliability at an industry leading price. Both versions of the HMR support SD and HD, and MPEG-2 and MPEG-4 decoding. The HMR5442 adds 4:2:2 functionality in MPEG-2 and MPEG-4, including 10bit 4:2:2 in MPEG-4. The HMR5442 also includes full 1080p60 decoding and output along with support for AAC audio. This series is a perfect complement to IDC's TITAN™ MPEG Video Encoder.

## Video

The HMR5440 and HMR5442 support all common HD and SD video formats. Multiple video output formats are supported including: analog NTSC and PAL, and digital SDI for standard definition; and HD-SDI and component video for high definition. The HMR5442 adds support for 1080p50/60 3G-HD-SDI and HDMI. Video processing is automatically sensed by the decoder and processed as either MPEG-2 or MPEG-4, SD or HD. Included in the basic functionality of both models is video resolution conversion from HD to SD, and from SD to HD, and aspect ratio conversion from 4:3 to 16:9 and from 16:9 to 4:3.

## Audio

The HMR decodes up to eight audio channels (four pairs) with analog and digital outputs, and embedded within the SDI or HD-SDI video signal.

## Genlock (Frame Sync)

The HMR may optionally be configured with internal frame sync for Genlocked applications. Unlike competitive products, correct lip sync is guaranteed—even while operating in frame sync mode.

## Input Interfaces

Both HMR models are highly flexible and offer various input interfaces including ASI, DVB-S, DVB-S2, MPEG over IP, and DS3/E3.



## Operator Control

The HMR series supports an embedded Web browser interface and SNMP support for easy command and control programming. It also offers the options of RS-232 command line management and control. As with all IDC products, the HMR5440 and HMR5442 have a fully featured front panel control.

**Buy Now!**



## TECHNICAL SPECIFICATIONS—HMR Series Professional Video Receivers

HMR5440			
	<b>Output</b> <ul style="list-style-type: none"> <li>SDI/HD-SDI</li> <li>YPrPb</li> <li>Analog Audio and Video</li> <li>Digital and Embedded AES Audio</li> </ul>	<b>Video</b> <ul style="list-style-type: none"> <li>MPEG-2 4:2:0 (MP@ML&amp;HL)</li> <li>MPEG-4 4:2:0 (HP@L.4.1)</li> </ul>	<b>Audio</b> <ul style="list-style-type: none"> <li>MPEG decode</li> <li>AC3 2.0 decode</li> <li>AC3 5.1 pass</li> <li>Dolby E pass</li> <li>Linear PCM</li> </ul>
HMR5442			
	<b>Output</b> <ul style="list-style-type: none"> <li>SDI/HD-SDI</li> <li>3G-HD-SDI (1080p60)</li> <li>HDMI</li> <li>Analog Audio and Video</li> <li>Digital and Embedded AES Audio</li> </ul>	<b>Video</b> <ul style="list-style-type: none"> <li>MPEG-2 4:2:0 (MP@ML&amp;HL)</li> <li>MPEG-2 4:2:2 (422P@ML&amp;HL)</li> <li>MPEG-4 4:2:0 (HP@L.4.1)</li> <li>MPEG-4 4:2:2 8&amp;10bit (Hi422P@L4.2&amp;5.0)</li> </ul>	<b>Audio</b> <ul style="list-style-type: none"> <li>MPEG decode</li> <li>AAC decode</li> <li>AC3 5.1 pass</li> <li>Dolby E pass</li> <li>Linear PCM</li> </ul>

<b>HARDWARE OPTIONS (Only One Option Card per Chassis)</b>
DVB-S2 Advanced Satellite Receiver Module - Generation 2
IP Interface Module
G.703 Interface Module
<b>SOFTWARE OPTIONS</b>
Genlock - Internal Frame sync
AC3 Audio Decoding (HMR5440 only)
AAC Audio Decoding (HMR5442 only)

<b>INPUT INTERFACES</b>	
QPSK L-band DVB-S Receiver	QPSK 2 * L-band 950 to 2150 MHz, 1 to 45 MSps
DVB-S/DVB-S2 Demod Gen 2	DVB-S (QPSK) DVB-S2 (QPSK, 8PSK) 2 * L-band 950 to 2150 MHz, 256 ks/s to 45 MSps
IP Input Interface	UDP, RTP, RTP with COP3 FEC
E3/DS3 Interface	44.736 or 34.368 Mbps
ASI Input	Maximum transport rate = 213 Mbps
ASI Output	Active ASI loop output
<b>VIDEO CAPABILITIES</b>	
Horizontal and Vertical Resolutions	<ul style="list-style-type: none"> <li>720 x 480i (29.97 fps) NTSC</li> <li>720 x 576i (25 fps) PAL</li> <li>1280 x 720p (25 or 29.97 fps)</li> <li>1920 x 1080i (25 or 29.95 fps)</li> <li>1920 x 1080p (25, 29.97, 50, 59.94 fps)</li> </ul>
Video Format Conversion	<ul style="list-style-type: none"> <li>HD to SD and SD to HD</li> <li>720p to 1080i and 1080i to 720p</li> <li>16x9 to 4x3 and 4x3 to 16x9</li> </ul>
VBI Data	ATSC Closed Captioning (EIA-608) and (EIA-708)

### FRONT PANEL INDICATORS

Rugged push buttons, illuminated LCD, bright indicator LEDs

### CONDITIONAL ACCESS

BISS Modes 1 and E, PGCA

### STATUS AND CONTROL INTERFACES

- Embedded Web browser interface for command and control
- SNMP
- RS-232 command line monitor and control
- Fully featured front panel control

### POWER REQUIREMENTS

Supply Voltage 95 to 135 VAC or 180 to 265 VAC

Power Consumption 32 Watts (typical)

### PHYSICAL PARAMETERS

Chassis 1RU rackmount

Dimensions (H, W, D) 4.5 cm x 44.5 cm x 39 cm (1.75" x 17.5" x 15.5")

Weight 5 kg (11 lbs.)

### ENVIRONMENTAL CONDITIONS

Operating Temperature 0° to 50° C (32° to 122° F)



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