

UMH160R

SD/HD Receiver/Decoder

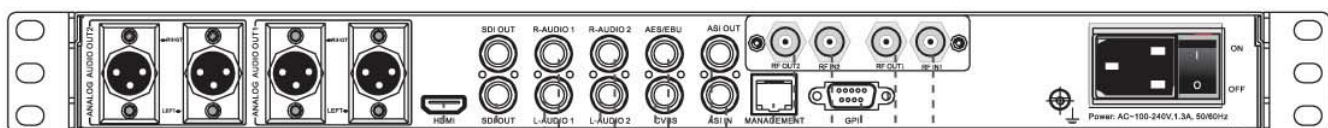


UMH160R is Wellav' s new generation integrated receiver decoder to support the growing demands for multi-format, multi-standard video delivery and distribution. It can receive digital signals from various of inputs (DVB-S/S2, DVB-C, DVB-T/ISDB-T, ASI and IP), decrypt, process/select programs to various outputs including CVBS, HDMI, SD/HD SDI, ASI, TS/IP and QAM/OFDM. It supports multi-channel descrambling, multiplexing, external table/data insertion, transcoding and transmodulating. It also supports video decoding with two audio channels. With remote web-based management interfaces, it is ideal to support advanced content distribution, real-time signal conversion and transmission via IP.

Features

- Receive MPEG-2/H.264 signals from two transponders (DVB-S2) or two frequencies (DVB-C, DVB-T or ISDB-T).
- Decrypt multi-channel programs by Conax, Irdeto, NDS, Viaccess, Verimatrix, BISS-1/BISS-E or other DVB-based condition access systems via dual independent CI slots.
- Optional four-channel Annex A/B QAM output or two-channel OFDM output, ideal for transmodulation
- Support program multiplexing, filtering, AD/EPG insertion and cherry picking.
- Support two pairs of audio decoding
- Support balanced/unbalanced analog audios, GPI and cue tone
- Optional 4 channel MPEG2 to/from H264 transcoding (2 for HD programs)
- Web-based management interface

Buy Now!



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- ① HDMI ② SDI OUT ③ L-AUDIO1 ④ R-AUDIO1 ⑤ L-AUDIO2 ⑥ R-AUDIO2 ⑦ CVBS ⑧ AES/EBU ⑨ ASI OUT
⑩ ASI IN ⑪ MANAGEMENT ⑫ RF OUT2 ⑬ RF IN2 ⑭ GPI ⑮ RF OUT1 ⑯ RF IN1

Specifications

DVB-S/S2 Input

2XRF input per unit

Constellation: QPSK, 8 PSK

Symbol Rate:

DVB-S: 1~45 Msps (QPSK: 1/2,2/3,3/4,5/6,7/8)

DVB-S2: 1~31.5 Msps(QPSK:1/2,3/5,2/3,3/4,5/6,8/9,9/10; 8PSK: 3/5,2/3,3/4,5/6,8/9, 9/10)

Input Frequency: 950~2150 MHz

Signal Level: Approx-65~-25 dBm

Acquisition Range: +/- 5 MHz

Tuner Step Size: 100 KHz

Return Loss: >10 dB

LNB Power

Vertical: 11.5V~14.0V

Horizontal: 16.0V~19.0V

22K switch on/off

QAM RF Input (optional)

Input Frequency Range: 48 -862 MHz

RF Channel: 2(6/7/8 MHz) unit

QAM Modulation Mode: 16/32/64/128/256 QAM

QAM Type: ITU-T J.83 Annex A/ C, Annex B (64/256QAM)

Symbol Rate: 1.0~6.9 MBauds

RF input bit-rate: up to 55 Mbps

DVB-T/ISDB-T Input (optional)

Input Frequency Range: 48 -862 MHz

RF Channel: 2 (6/7/8 MHz) unit

QAM Modulation Mode: 16/64 QAM

DVB Descrambling

DVB-CI Interfaces: 2 independent CI slots (EN50221)

CA Method: Multicrypt/Simulcrypt, Hot Plug

CAS: Irdeto, Conax, Viaccess, Nagravision, Novel SuperTV, Verimatrix, CTI, Dvccrypt&other DVB-simulcrypt CAS

GBE IP Interface

Interface: 1 x 1000 Mbps per port

IP Encapsulation: MPEG TS over UDP/RTP

MPEG TS: MPTS and SPTS

I/O Processing: Up to 12 Sockets, max at 72 Mbps per socket

Addressing: Unicast and Multicast

Management: IGMPv1, IGMPv2, IGMPv3

Forward Error Correction ProMPEG

DVB ASI interface

Interface: 4 BNC connectors (2 ASI inputs), 75 Ω

MPEG Format: 188/204Byte per TS

I/O Processing: 1 MPTS/SPTS per port, up to 120 Mbps per port

Re-multiplexing

PID: Re-mapping and Filtering

MPTS Output Synchronization

Routing: Any Input to Any Output

Redundancy: Input Service Redundancy & IP Port Redundancy

Management

Interface: 100Base-TX, RJ45

NMS: Wellav Digital Service Manager

Web-based Management (future feature)

Support SNMP

Physical & Environment

Input Voltage: 90 – 260 VAC

Power Consumption: Appror 40 W

Rack Space: 1 RU

Dimension (WxHxD): 480mm x 44mm x 440mm

Operating Temperature: 0°C to 50°C

Storage Temperature: -40°C to 65°C

Relative Operating Humidity: <95%

Order Information

Base	Receiving, decoding, ASI (one-channel)
SDI	Base +SDI
IP	Base +IP+2 channel+Re-Mux
AD	IP+SDI
QAM	IP+QAM/OFDM Modulator (4 for QAM and 2 for OFDM) w/o SDI
TC2	IP + Transcoder to MPEG2 (4 programs)
TC4	IP+Transrating to MPEG4 (4 programs)



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