



gateway ▶▶▶ better video delivery

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UMH160U New Product Launch

Apr 2022

# A NEW Generation 4K HEVC Gateway Decoder

- ▶ A 4K/UHD HEVC Receiver Decoder (easy upgrade by license)
- ▶ A gateway between broadcast MPEG/IP networks and internet-based distribution protocols like SRT/Zixi/RIST/HLS/RTMP
- ▶ A Multiplexer that supports mux from any two inputs (RF/IP/ASI)



# Key Features (Receiving)

## Receiving

- Multiple tuner options to support DVB-S2X/S2/S/T2/T/C, DTMB, 8VSB and ISDB-T (DVB-S2X/S2/S in phase 1)
- Supports redundant backup between any two input sources
- PID auto update
- Multiple presets
- Supports IP & ASI input
- Supports T2-MI transport stream decapsulation
- Support SRT/ZIXI/RIST/CTP/HLS/RTMP/RTSP input

## Data processing

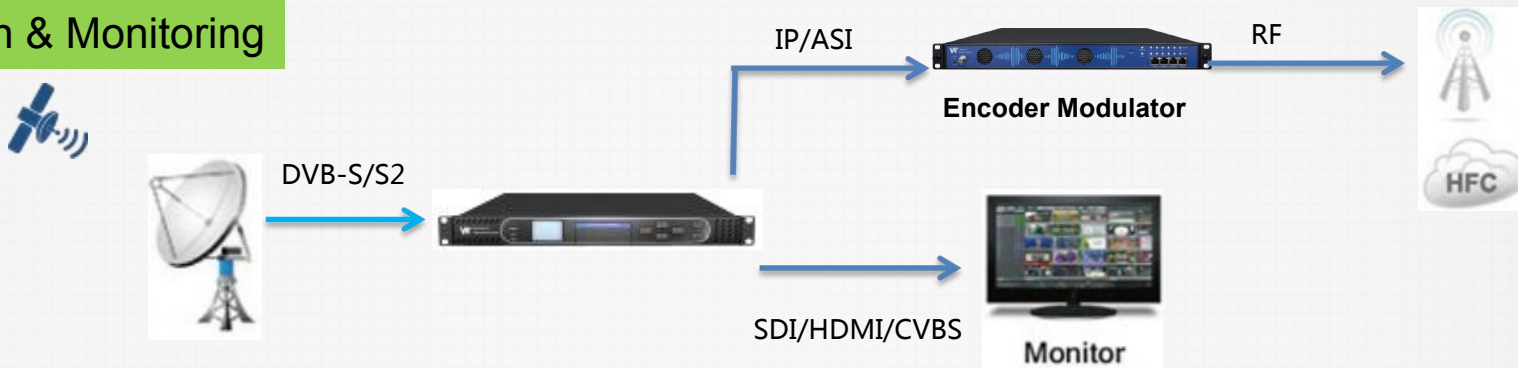
- Embedded BISS-1 & BISS-E supports TS & Service level descrambling
- Supports TS & Service multiplexing
- Cherry Picking/PID Filtering
- Transcoding 2x channels HD/SD

## Output

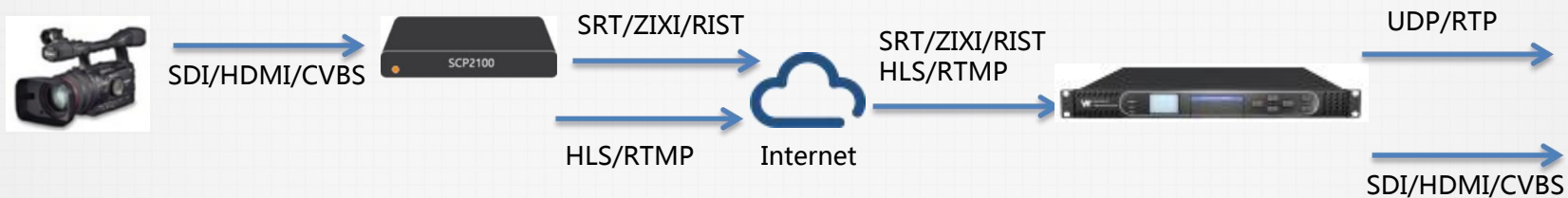
- 4K/AVS2/HEVC/HDR video decoding
- 2 pairs of audio (currently 1, 2 in the future)
- ASI & IP output
- Support SRT/ZIXI/RIST/CTP/HLS/RTMP/RTSP output

# Application Examples

## Distribution & Monitoring



## P2P Transmission & Internet Content Acquisition



# Comparison with other IRDs

CATEGORY	FEATURE	Harmonic Proview8100	Sencore NRD5800	Wellav UHH160U	DX 3975C	PBI PDH 5100P
Input	Auto Input Redundancy	✓	✓	✓		✓
Input	DVB-S/S2, 8VSB, QAM/DVB-C, ASI, DVB-T/2, ISDB-T	✓	✓	✓	✓	
Input	DVB-S2X Input		✓	✓	✓	
Input	DVB-S2: QPSK, 8PSK	✓	✓	✓	✓	✓
Input	DVB-S2: 16/32/64APSK		✓	✓	✓	
Input	Symbol rate: 1-45 Msym/s	✓	✓	✓	✓	✓
Input	Symbol rate: 1-72 Msym/s		✓			
Input	IP Input	✓	✓	✓	✓	✓
Input	SRT/Zixi/RIST/RTMP/HLS/RTSP Input			✓		
Descrambling	BISS Injected ID for EBU	✓	✓			
Descrambling	DVB-CI and BISS	✓	✓	✓	✓	✓
Descrambling	TS level Descrambling	✓	✓	✓	✓	✓
Decoding	4:2:0 Video Decoding	✓	✓	✓	✓	✓
Decoding	4:2:2 Video Decoding		✓			
Decoding	5.1 Discrete Audio Decode	✓	✓			
Decoding	Auto Low Latency	✓	✓	✓		
Decoding	Auto Seek (Intelligent Service Lock)	✓	✓	✓		
Decoding	Decode of 2 Audio Services	✓	✓	✓	✓	✓
Decoding	Decode of 4 Audio Services		✓			
Decoding	Decode of 8 Audio Services		✓			
Decoding	Dolby-E Pass-Thru	✓	✓	✓	✓	✓
Decoding	HEVC Video Decoding		✓	✓	✓	
Decoding	HDR Video Decoding			✓		

# Comparison with other IRDs

CATEGORY	FEATURE	Harmonic Proview8100	Sencore IRD5800	Wellav UHH160U	DX 3975C	PBI PDH 5100P
Processing	DVB Subtitle Overlay	✓	✓	✓	✓	✓
Processing	PID or Service Filtering	✓	✓	✓	✓	✓
Processing	SCTE 35 to SCTE 104		✓			
Processing	SDI VANC Embedding (EIA-708)	✓	✓	✓	✓	✓
Processing	SDI VANC Embedding (OP-47, RDD11, SMPTE 2038)		✓			
Processing	SDI VANC Embedding Continued (SMPTE 2031, AFD)		✓			
Output	3G-SDI Output for 1080p60 Video	✓	✓	✓	✓	
Output	4K/UHD Output			✓		
Output	Embedding of 8 Audio Pairs in SDI		✓			
Output	HDMI Output	✓	✓	✓	✓	✓
Output	Simultaneous Decode and Turnaround	✓	✓	✓	✓	✓
Output	Simultaneous HD-SDI and SD-SDI Output	✓	✓	✓	✓	✓
Output	SRT/Zixi/RIST/RTMP/HLS/RTSP Output			✓		
SNMP	SNMP Unit Control	✓	✓	✓	✓	✓
SNMP	SNMP Unit Monitoring	✓	✓	✓	✓	✓
Misc	Genlock	✓	✓			
Misc	Multiplexing			✓	✓	✓
Misc	Profiles (Create and Apply)	✓	✓	✓	✓	✓
Misc	Transcoding			✓		

# Pricing

- UMH160U: H.264/MPEG-2 receiver decoder, 2x RF input, IP/ASI in/out, HLS in, SDI/HDMI/CVBS decoding, IP management, MPEG1L2---1,050USD

## Licenses

16001	AC3 Decoding License	\$20
16002	AAC Decoding License	\$10
16003	HEVC HD/SD Decoding License	\$200
16004	4K/HDR Decoding License	\$400
16005	Multiplexing License	\$200
16006	TS-level BISS Decryption License	\$100
16007	T2MI License	\$400
16008	PID Auto-update License	\$100
16009	Input redundant License	\$100
16010	Multistream License	\$200
16011	SRT Input License	\$200
16012	RTMP Input License	\$200
16013	ZIXI Input License	\$300

Close to  
UMH160R-IP  
w/o any license

# Roadmap







## How to buy?

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2. Visit our website and contact us: <https://en.wellav.com/>
3. Send a email to us: [marketing@wellav.com](mailto:marketing@wellav.com)

# THANKS

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