

AVC / H.264 and MPEG-2 HDTV / SDTV
Integrated Receiver Decoder (IRD)

HVD6100 *NEW*

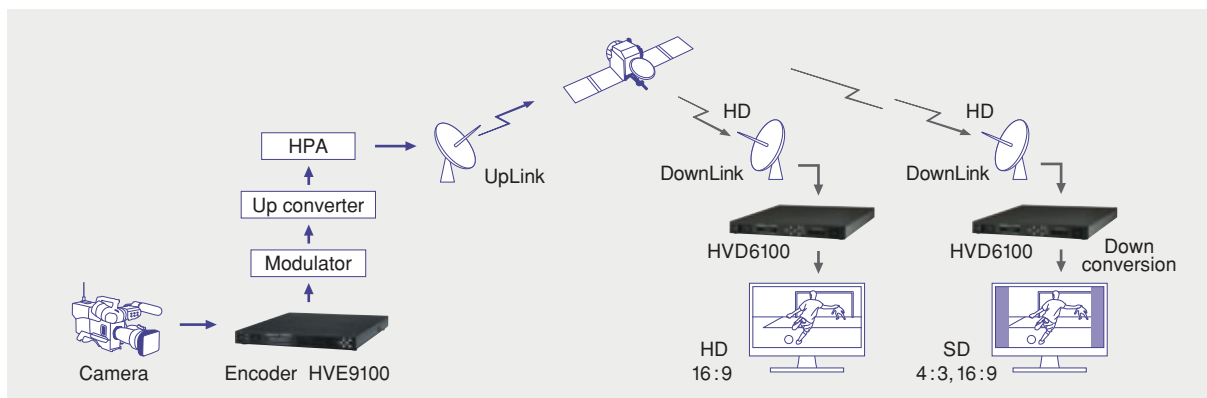
AVC / H.264
& MPEG-2
4:2:2/4:2:0
IRD



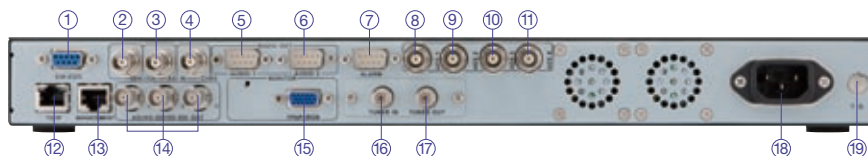
Multi-format IRD for AVC / H.264 and MPEG-2 4:2:2 / 4:2:0 HDTV / SDTV contribution and distribution with DVB-S2 demodulator

- Various features equipped as standard configuration
- High quality conversion of HD / SD
- DVB-S2 demodulator
QPSK / 8PSK, 16APSK / 32APSK
CCM, VCM, ACM* compliant (Option)
* ACM will be supported by Q4 2009
- Low latency with HVE9100 combination

Application



Rear Panel *Photo: HVD6100



- ① EIA-232C
- ② GENLOCK IN
- ③ ASI IN
- ④ CVBS OUT
- ⑤ AUDIO OUT1
- ⑥ AUDIO OUT2
- ⑦ ALARM
- ⑧ AES OUT1
- ⑨ AES OUT2
- ⑩ AES OUT3
- ⑪ AES OUT4
- ⑫ TS/IP IN / OUT
- ⑬ MANAGEMENT
- ⑭ HD-SDI / SD-SDI / ASI x 3 Switchable
- ⑮ MONITOR OUT YPbPr / RGB
- ⑯ TUNER IN**
- ⑰ TUNER OUT**
- ⑱ AC 100 - 240V IN
- ⑲ TECHNICAL GROUND

** HVD6100 - PS2 Input x 2 (⑯ TUNER IN B, ⑰ TUNER IN A)

Specification

Features		Specifications		
Demodulator Part	Specifications	HVD6100 Premium Demodulator Model HVD6100 PS2-32A / HVD6100 PS2-16A / HVD6100 PS2-8PS		
	Demodulation / Symbol Rate (MSPS)	DVB-S2 (EN310 210): QPSK, 8PSK; 0.256 to 45MSPS (Data rates < 1MSPS require pilots) (32A, 16A, 8PS) 16APSK; 0.256 to 45MSPS (Data rates < 1MSPS require pilots) (32A, 16A model) 32APSK: 1 to 33MSPS (Normal Frames only) (32A model)	DVB-S2 (EN310 210): QPSK, 8PSK; 5 to 45MSPS	
		DVB-S (EN300 421) / DVB-DSNG (EN301 210): QPSK, 8PSK, 16QAM: 1 to 45MSPS	DVB-S (EN300 421): QPSK: 5 to 45MSPS	
	Coding and Modulation	CCM(Constant), VCM(Variable), ACM* (Adaptive) including ISI (Input Stream Identifier) filtering for Multistream and VCM / ACM operation		
	Frame Length	Short Frame: 16kbits, Normal Frame: 64kbits		
	FEC	DVB-S2: 1 / 3, 2 / 5, 1 / 2, 3 / 5, 2 / 3, 3 / 4, 4 / 5, 5 / 6, 8 / 9, 9 / 10		
		DVB-S / DSNG: 1 / 2, 2 / 3, 3 / 4, 5 / 6, 7 / 8, 8 / 9		
	Pilot tones	Pilot tones detection for low data rates and LNB' switch a bad phase noise (in 8PSK or higher)		
	Input Frequency Range	IF 950 - 2150MHz (L-Band)		
	Roll-off Factor	DVB-S2: 0.20, 0.25, 0.35; DVB-S: 0.35, 0.25		
	Signal Level	- 25 to - 65dBm		
	RF Input connector	Dual 75ohm F (Female), Input selectable	75ohm F (Female) input x 1, throughout x 1	
LNB Power and Control	DC output: Off / 13V (Vertical) / 18V (Horizontal); Max Current: 300mA (PS2 model), 350mA (Standard) Band Switching: Off / 22kHz; LNB switching: DiSEqC 1.0			
Decoder Part	Input Stream Type	Stream Type	MPEG-2 TS (188 / 204bytes)	
		Input Interface	DVB-ASI, IP, RF	
		Max. Input Rate	HD: 160Mbps, SD: 50Mbps	
	IP Input / Output	De-Encryption	None, BISS-0, BISS-1, BISS-E; Conditional Access	
		Interface	100 / 1000Base-T (RJ-45), TS over IP Input / Output	
		Format	RTP / UDP, Unicast / Multicast, IGMPv3, IPv4/IPv6	
		Maximum Bitrate	80Mbps, 60Mbps with ProMPEG	
	Video Decode	IP FEC	ProMPEG	
		Output Format	HD-SDI (SMPTE292M), SD-SDI (SMPTE259M); ; Selectable at 3 BNC (HD-SDI / SD-SDI / ASI) output YPbPr / RGB (D-sub 15pin), CVBS (SD Composite NTSC / PAL)	
		Profile / Level	MPEG-4 AVC / H.264 Video; Profile: High422(8bit), High, Main, Level: 4.0, 3.2, 3.1, 3.0 MPEG-2 Video; HD: MP@HL, 422P@HL; SD: MP@ML, 422P@ML	
	Video Format Down Conversion	Video Format	1080i: 25 / 29.97 / 30 (SMPTE274M), 1920 x 1080, 1440 x 1080 720p: 50 / 59.94 / 60 (SMPTE296M), 1280 x 720 576i: 25 (ITU-R BT.656-4), 720 x 576 480i: 29.97 (SMPTE125M), 720 x 480	
		Supported Format	HD to SD (1080i 29.97 to 480i 29.97, 1080i 25 to 576i 25, 720p 50 to 576i 25, etc)	
		Down Conversion	Panscan, Letterbox, Anamorphic, None (Full)	
	Audio Decode	Aspect Conversion	4: 3, 16: 9	
		Output Interface	SD-SDI / HD-SDI, CVBS, YPbPr / RGB	
		Decoding Format	SDI (Embedded Audio), AES-3id (BNC) x 4; Balanced Output (Analog 2ch + Digital 1ch) x 2 MPEG-1 Audio Layer II: 1ch / 2ch (1 + 1, 2 / 0) MPEG-2 AAC: 1ch / 2ch (1 + 1, 2 / 0) / 5.1ch surround & down-mix Dolby Digital (AC3): 1ch (1 / 0) / 2ch (1 + 1, 2 / 0) / 5.1ch surround & down-mix SMPTE302M: 2ch / 4ch / 6ch / 8ch; Dolby-E Pass-through (4 PES Maximum, Decoded output channels are limited up to 8ch when 5.1ch surround with other audios.)	
		Control	Power ON / OFF, Front Control Key	
	Body	Local Operation	SNMP2.0, HTTP (Web GUI)	
Remote Operation		SNMP2.0, HTTP (Web GUI)		
Standard Accessories	Dimensions / Weight	1U 19" Full-rack size, W430 x D465 x H45mm (W16.9" x D18.3" x H1.77" approx.), 8kg / 17.6lbs (approx.)		
	Power Source / Power Consumption	AC 100 - 240V, 50Hz / 60Hz, Approx. 80W		
Standard Accessories		AC Power Cable x 1, Rackmount Bracket (L / R) x 1 set, Audio Breakout Cable (D-SUB 9 pin to Balanced Audio) x 2		

* ACM will be supported by Q4 2009

Caution In order to ensure correct and safe use, be sure to read the User's manual before use.
Do not install in locations exposed to water, humidity, steam, dust, or mist. Doing so could cause fire, electric shock, or equipment failure.

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Sales Agent