

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

HVD6100 *NEW*

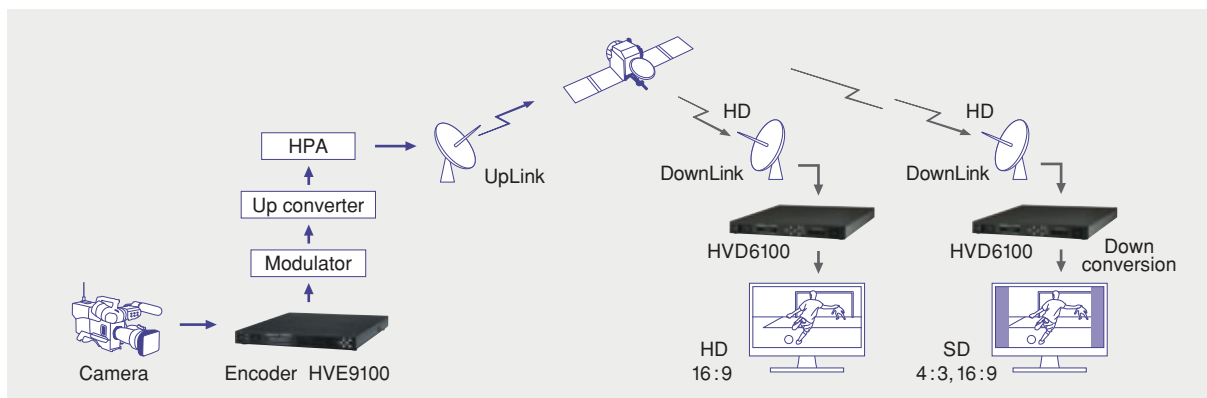
AVC / H.264
& MPEG-2
4:2:2/4:2:0
IRD



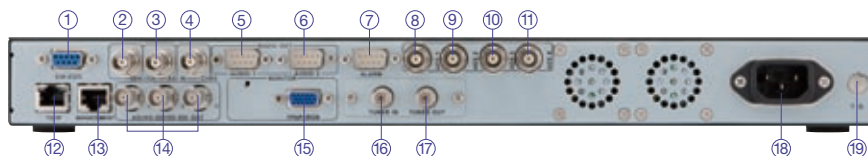
Multi-format IRD for AVC / H.264 and MPEG-2 4:2:2 / 4:2:0 HDTV / SDTV contribution and distribution with DVB-S2 demodulator

- 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)	HVD6100 Standard Demodulator Model HVD6100		
		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)		
	Coding and Modulation	DVB-S (EN300 421) / DVB-DSNG (EN301 210): QPSK, 8PSK, 16QAM: 1 to 45MSPS		
		DVB-S (EN300 421): QPSK: 5 to 45MSPS		
	Frame Length	CCM(Constant), VCM(Variable), ACM* (Adaptive) including ISI (Input Stream Identifier) filtering for Multistream and VCM / ACM operation		
	FEC	CCM (Constant)		
		Short Frame: 16kbits, Normal Frame: 64kbits		
	Pilot tones	Normal Frame: 64kbits		
		DVB-S2 QPSK: 1 / 2, 3 / 5, 2 / 3, 3 / 4, 4 / 5, 5 / 6, 8 / 9, 9 / 10		
	Input Frequency Range	DVB-S2 QPSK: 3 / 5, 2 / 3, 3 / 4, 5 / 6, 8 / 9, 9 / 10		
		DVB-S: 1 / 2, 2 / 3, 3 / 4, 5 / 6, 7 / 8, 8 / 9		
	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	
	Video Decode	Maximum Bitrate	80Mbps, 60Mbps with ProMPEG	
		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)	
	Video Format Down Conversion	Profile / Level	MPEG-4 AVC / H.264 Video; Profile: High422(8bit), High, Main, Level: 4.0, 3.2, 3.1, 3.0	
		Video Format	MPEG-2 Video; HD: MP@HL, 422P@HL; SD: MP@ML, 422P@ML	
			1080i: 25 / 29.97 / 30 (SMPTE274M), 1920 x 1080, 1440 x 1080	
	Audio Decode	Supported Format	720p: 50 / 59.94 / 60 (SMPTE296M), 1280 x 720	
		Down Conversion	576i: 25 (ITU-R BT.656-4), 720 x 576	
		Aspect Conversion	480i: 29.97 (SMPTE125M), 720 x 480	
	Control	Output Interface	HD to SD (1080i 29.97 to 480i 29.97, 1080i 25 to 576i 25, 720p 50 to 576i 25, etc)	
		Decoding Format	Panscan, Letterbox, Anamorphic, None (Full)	
			4: 3, 16: 9	
Body	Output Interface	SD-SDI / HD-SDI, CVBS, YPbPr / RGB		
	Local Operation	SDI (Embedded Audio), AES-3id (BNC) x 4; Balanced Output (Analog 2ch + Digital 1ch) x 2		
Standard Accessories	Remote Operation	MPEG-1 Audio Layer II: 1ch / 2ch (1 + 1, 2 / 0)		
	Dimensions / Weight	MPEG-2 AAC: 1ch / 2ch (1 + 1, 2 / 0) / 5.1ch surround & down-mix		
	Power Source / Power Consumption	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.)		

* 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.

- Design and specifications are subject to change without notice for improvement.
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- Dolby is trade mark of Dolby Laboratories.



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