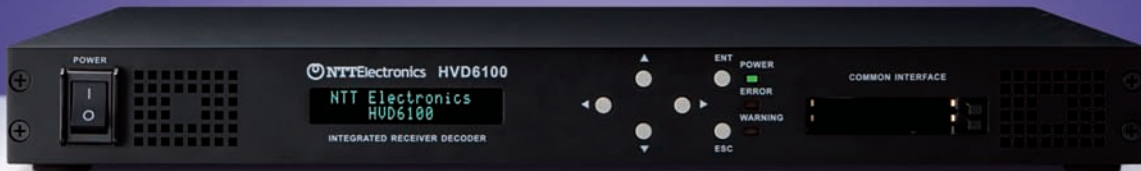


AVC / H.264 and MPEG-2 HDTV / SDTV
Integrated Receiver Decoder (IRD)

HVD6100 **NEW**

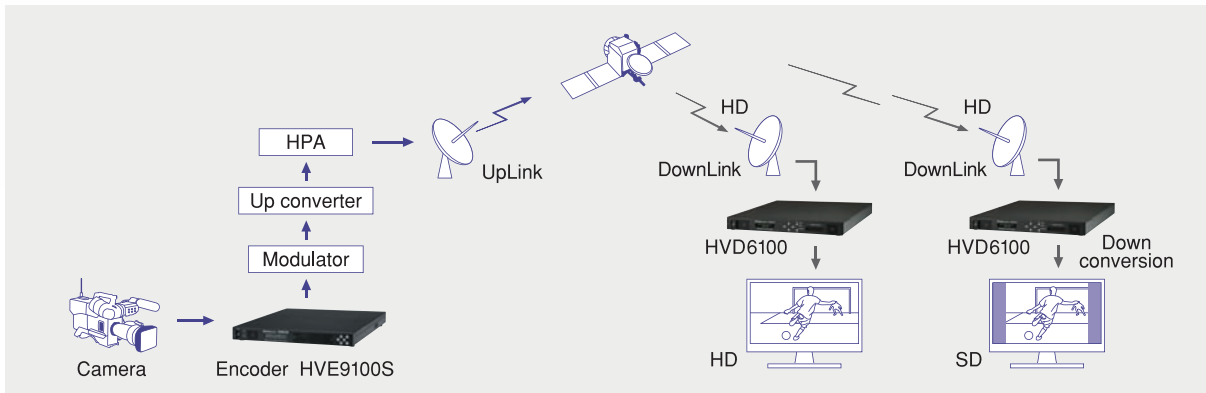
**AVC / H.264
& MPEG-2
4:2:2 / 4:2:0
IRD**



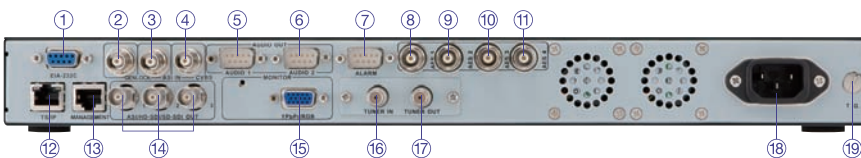
Multi-format IRD for AVC/H.264 and MPEG-2 4:2:2/4:2:0 HDTV/SDTV contribution and distribution with DVB-S2 demodulator

- Various features equipped as standard configuration
- DVB-S2 demodulator
QPSK / 8PSK, 16APSK* / 32APSK*
* HVD6100 PS2-16A, HVD6100 PS2-32A
- High quality conversion of HD / SD
- Low latency with HVE9100S 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
- ⑬ MANAGEMENT
- ⑭ HD-SDI / SD-SDI / ASI x 3 Switchable
- ⑮ Video OUT
- ⑯ YPbPr / RGB
- ⑰ TUNER IN**
- ⑱ TUNER OUT**
- ⑲ AC 100 - 240V IN
- ⑳ TECHNICAL GROUND

** HVD6100 - PS2 Input x 2 (⑰ TUNER IN B, ⑱ TUNER IN A)

Specification

Features		Specifications	
Demodulator Part	Specifications	HVD6100 Premium Demodulator Model HVD6100 PS2-32A / HVD6100 PS2-16A / HVD6100 PS2-8PS	HVD6100 Standard Demodulator Model HVD6100
	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)	
	Frame Length	Short Frame: 16kbits, Normal Frame: 64kbits	Normal Frame: 64kbits
	FEC	(DVB-S2) QPSK: 1 / 4, 1 / 3, 2 / 5, 1 / 2, 3 / 5, 2 / 3, 3 / 4, 4 / 5, 5 / 6, 8 / 9, 9 / 10 8PSK: 3 / 5, 2 / 3, 3 / 4, 5 / 6, 8 / 9, 9 / 10 16APSK: 2 / 3, 3 / 4, 4 / 5, 5 / 6, 8 / 9, 9 / 10 (32A, 16A model) 32APSK: 3 / 4, 4 / 5, 5 / 6, 8 / 9, 9 / 10 (32A model)	(DVB-S2) QPSK: 1 / 2, 3 / 5, 2 / 3, 3 / 4, 4 / 5, 5 / 6, 8 / 9, 9 / 10 8PSK: 3 / 5, 2 / 3, 3 / 4, 5 / 6, 8 / 9, 9 / 10
		(DVB-S / DSNG) QPSK: 1 / 2, 2 / 3, 3 / 4, 5 / 6, 7 / 8; 8PSK: 2 / 3, 5 / 6, 8 / 9; 16QAM: 3 / 4, 7 / 8	DVB-S: 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: 0.25, 0.35	
	Signal Level	- 65 to - 45dBm@1Msps; - 60 to - 35dBm@10Msps; - 53 to - 28dBm@45Msps Max total input power: - 25dBm	- 65 to - 25dBm
	RF Input connector	Dual 75 ohm F (Female), Input selectable	75 ohm F (Female) input x 1, throughout x 1
	LNB Power and Control	DC output: Off / 13V (Vertical) / 18V (Horizontal)	
Max Current: 300mA		Max Current: 350mA	
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 (with BISS, 150Mbps), SD: 50Mbps
	IP Input	Decryption	None, BISS-1, BISS-E
		Interface	100 / 1000Base-T (RJ-45), TS over IP
		Format	RTP / UDP, Unicast / Multicast, IGMPv2, IPv4
		Maximum Bitrate	80Mbps, lower with ProMPEG
	Video Decode	IP FEC	ProMPEG (Cop3v2 Annex A)
		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, 3.0 MPEG-2 Video; HD: MP@HL, 422P@HL; SD: MP@ML, 422P@ML
		Video Format	1080i: 25 / 29.97 (SMPTE274M), 1920 x 1080, 1440 x 1080
			720p: 50 / 59.94 (SMPTE296M), 1280 x 720 576i: 25 (ITU-R BT.656-4), 720 x 576 480i: 29.97 (SMPTE125M), 720 x 480
	Video Format Down Conversion	Supported Format	HD to SD (1080i 29.97 to 480i 29.97, 1080i 29.97 to 576i 25, 1080i 25 to 576i 25, 720p 50 to 576i 25, 720p 59.94 to 480i 29.97), HD to HD (1080i 29.97 to 1080i 25)
		Down Conversion	Panscan, Letterbox, Full Frame
	Audio Decode	Output Interface	SD-SDI / HD-SDI, CVBS for monitoring
		Decode 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 & down-mix SMPTE302M: 2ch / 4ch / 6ch / 8ch; Dolby-E Pass-through (4 PES Maximum)
	Control	Local Operation	Power ON / OFF, Front Control Key
Remote Operation		SNMP1.0, HTTP (Web GUI)	
Body	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		Rackmount Bracket (L / R) x 1 set, Audio Breakout Cable (D-SUB 9 pin to Balanced Audio) x 2	

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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