Multi-Channel HEVC Encoder

The best answer to deliver sporting events with high density of 4k x 2ch/HD x 8ch encoding in 1RU.

Key Features

- **World leading quality image and high performance encoder**
  High image quality, high performance and reliability from NTT Electronics' designed H.265/HEVC Encoder chipset.
- **High Density, Multi-Channel Encoding**
  Up to 2 x 4K ch/8 x HD ch in 1 RU.
  The perfect density always available for any transmission, such as sporting events, live events and news gathering.
- **Supports BISS-1, BISS-2/CA of encryption Industry standard format**
  Supports BISS-2/CA which is the latest scrambling protocol to guaranteed the highest security of the stream.
- **Selectable audio formats and maximum 64ch discrete audio performance**
  64ch audio is enough number to support global multi-language transmission. MPEG-1 LayerII and AAC (at 2ch video encoding only) as an encoding format, and SMPTE302M and DolbyE pass though are supported
- **Dual Power Supply**
  Built in Dual Power supply.

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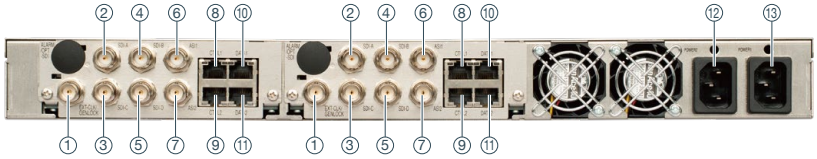
Rear Panel



① GENLOCK
② SDI A
③ SDI C
④ SDI B
⑤ SDI D
⑥ ASI1
⑦ ASI2
⑧ CTRL1
⑨ CTRL2
⑩ DATA1
⑪ DATA2
⑫ AC inlet1
⑬ AC inlet2

Specifications

Video	Input Interface		BNC: 3G-SDI (SMPTE ST 424)/HD-SDI (SMPTE ST 292)	
	Output Interface		BNC: 3G-SDI (SMPTE ST 424)/HD-SDI (SMPTE ST 292)	
	Encode Method		H.265/HEVC	H.264/MPEG-4 OP2
	Profile ; Level		Profile: Main 4:2:2 10, Main 10, Main Level : 5.1, 4.1, 4	Profile: High4:2:2, High10, High, Main Level : 4.2, 4.1, 4.0, 3.2, 3.0
	Video Format @ Frame Rate		2160P(3840 x 2160)@ 50Hz, 59.94Hz ; max.2PES 1080P(1920x1080)@ 50Hz, 59.94Hz ; max.6PES 1080I (1920x1080)@25Hz, 29.97Hz ; max.8PES	1080I (1920/1440×1080)@25Hz, 29.97Hz ; max.8PES
Audio	Input Interface		Embedded Audio 16ch(SMPTE ST 299)	
	Encode Method		MPEG-1 L2: 1ch(Mono), 2ch(Dual Mono), 2ch(Stereo) ; max.32PES SMPTE302M: 2ch, 4ch, 6ch, 8ch ; max.16PES MPEG-2 AAC-LC: 1ch(1/0), 2ch(1+1), 2ch(2/0), 4ch(3/1), 5.1ch(3/2/1), 6ch(2/2/2); max.8PES MPEG-4 AAC-LC: 2ch(2/0), 4ch(3/1), 5.1ch(3/2/1); max. 8PES MPEG-4 HE-AACv1: 2ch(2/0), 5.1ch(3/2/1); max. 4PES MPEG-4 AAC-ELD: 2ch(2/0), 4ch(3/1), 5.1ch(3/2/1); max. 4PES	
Ancillay	Data Format		SMPTE ST 2038 (at 2ch video encoding only,1PES/TS)	
Transport Stream (TS)	Output Interface		DVB-ASI: BNCx4(0.8Vp-p 75Ω); IP : 100BASE-TX/1000BASE-T(RJ-45)x4 RTP/UDP/IP(SMPTE2022-2-2007, RFC2250,RFC3550, RFC1889), Unicast/Multicast	
	Output Type		MPEG-2 TS(188/204byte)	
	Maximum Number of TS		4TS *When 8 video PES encoded in 2TS, each TS has 4x video PES (in case of 1080i) *When 4 video PES encoded in 4TS, each TS has 1x video PES (in case of 1080i/1080p)	
	Maximum Number of PES (Per1TS)		Video:4PES, Audio: 16PES	
	Maximum TS Rate (Per 1TS)		2TS：200.000Mbps、4TS：100.000Mbps	
	TS Encryption OP1		BISS-2 1/E/CA, BISS-1 1/E	
	TS over IP	Output Interface	100BASE-TX/1000BASE-T(RJ-45)x4	
		Network Features	IPv4: IGMPv2/v3, IPv6: MLDv2	
		Transmission	RTP/UDP/IP(SMPTE2022-2-2007, RFC2250, RFC3550, RFC1889), Unicast/Multicast	
		Error Correction	FEC(SMPTE2022-1-2007/Pro-MPEG COP#3 R2), ARQ	
Test Signal			Video: Color-bar signal, Audio: 1kHz sine wave(-18/-20 dBFS)	
Control	Local Control		LCD(20digits×4/brightness control available)+ Front Switch(7 buttons)x2	
	Network Interface		100BASE-TX/1000BASE-T(RJ-45)x4	
	Remote Control		Web GUI, SNMP v1, Ping, Syslog	
Others	Dimensions		W: 433×H: 44×D: 430(mm) (w/o Connector, Foot, Rack mount bracket)	
	Weight		8kg typ.	
	Supply Voltage		AC100V to 240V, 50/60Hz (Dual power supply for redundancy)	
	Power Consumption		300W max.	
	Operating Environment		0 to 45°C, 30 to 90% (non condensing)	
	Compliance		RoHS, VCCI, FCC, ICES, CE, UL, CSA	

	Suffix	Option Name	Description
Software	OP1	HC3x000E_OP_BISS2	BISS-2/-1 Encryption
	OP2	HC3x000E_OP_AVC10	H.264/MPEG-4 AVC 10bit Encoding
	OP3	HC3x000E_OP_ULDELAY	Super Low Delay Mode

- Dolby is a trademark of Dolby Laboratories.
- Our company may change specifications and the appearance for improvement that are incidental to the product without providing prior notice. At the purchase and the use of the product, please confirm the latest information.
- Exporting our products or technologies may be subject to the Foreign Exchange and Foreign Trade Law of Japan and export control acts and regulations of other related countries.

⚠ Caution Please use our products in accordance with the instructions provided in the manual, user's guide or specifications attached.

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