

8K Encoder (VC-8350) Specification①

Item			Function	Comment
Input Video Signal - I/F				
Video Signal (8K operating)	DG Input		8 pairs x 3G-SDI	
			Dual Green Standard : SMPTE 424M (3 G-SDI)	
	Optical Input		1 x Full Spec. 8K Optical	
			Standard : ARIB STD-B56	
	Video Format		4320p : 7680 × 4320 59.94Hz	
Video Signal (4K operating)	3G-SDI Input		4 pairs x 3G-SDI	Auto-Detection : Level A or B Available for Square Division / 2 Sample Interleave
			Standard : SMPTE424M (3 G-SDI)	
	Optical Input		1 x Full Spec. 4K Optical	
			Standard : ARIB STD-B56	
	Video Format		2160p : 3840 × 2160 59.94Hz	
Input Audio Signal - I/F				
Audio Signal	Format		Embedded	
	Sampling Frequency		48kHz	
	The number of channel		Up to 32 channels	
Input Synchronization - I/F				
NTSC BB	Format		NTSC Analog Black Burst	
	Standard		SMPTE RP 154	
NTP	Format		Ethernet (GbE)	
	Standard		IEEE 1588, ARIB STD-B60	
STC / GOP	Format		NEC Standard : GOP Synchronization Signal	
	Standard		ISO / IEC 13318-1, EN 50083-9	

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Item		Function		Comment
Output TS - I/F				
	DVB-ASI	Format	DVB-ASI	
		Standard	ISO / IEC 13818-1, EN 50083-9	
		Transmission Mode	Packet Mode / Burst Mode	
		Packet Length	188 Byte / 204 Byte	
		Total Rate	8K operating : 214Mbps	Video : 60~214Mbps
			4K operating : 214Mbps	Video : 15~160Mbps
		The number of output port	Up to 3 ports	
Output MMT / IP - I/F				
	Ethernet	Format	MMT / IP	
		Standard	IEEE 802.3 / 3u / 3ab (LAN), ARIB STD-B60, ISO 23008-1	
		The number of output port	Up to 2 ports	
Control - I/F				
	Ethernet	Format	Ethernet (GbE)	
		Standard	IEEE 802.3 / 3u / 3ab (LAN)	
Monitoring - I/F				
	Ethernet	Format	Ethernet (GbE)	
		Standard	IEEE 802.3 / 3u / 3ab (LAN)	
		Protocol	HTTP, SNMP	
	Alarm / Status	Format	Contact Control (GND / open)	
			Open-collector (GND / open)	

8K Encoder (VC-8350) Specification③

Item		Function	Comment
Video Encoding			
Encoding Format		H.265 MPEG-H HEVC (ISO / IEC 23008-2)	
Resolutions	8K operating	4320p : 7680 x 4320	
	4K operating	2160p : 3840 x 2160	
Chroma Format		4:2:0	
Profile@Level	8K operating	Main10@Level6.1	
	4K operating	Main10@Level5.1	
ES bitrate	8K operating	60Mbps ~ 140Mbps @Main tier	
	4K operating	15Mbps ~ 40Mbps @Main tier	
Buffer Delay		300ms ~ 1000ms	
Audio Encoding			
Encoding Format		MPEG-4 AAC LC	
Channel Mode		1/0, 2/0, 5.1ch, 22.2ch	
ES bitrate		32kbps ~ 3072kbps	
The number of ES		Up to 4ES	
ES Format		LATM / LOAS	
Physical			
Operating Temperature		5℃ ~ 40℃	
Power Supply		AC100V ~ 240V	
Power Consumption		~ 700VA	
Dimensions / Weight		440mm(W) × 670mm(D) × 220mm(H), 45kg	

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Item			Function	Comment
Output Video Signal - I/F				
Video Signal (8K output)	DG Output		8 pairs x 3G-SDI	
			Dual Green Standard : SMPTE 424M (3 G-SDI)	
	Optical Output		1 x Full Spec. 8K Optical	
			Standard : ARIB STD-B56	
	Video Format		4320p : 7680 × 4320 59.94Hz	8K up-converted output when 4K signal received
Video Signal (4K output)	3G-SDI Output		4 pairs x 3G-SDI	Auto-Detection : Level A or B Available for Square Division / 2 Sample Interleave
			Standard : SMPTE424M (3 G-SDI)	
	Optical Output		1 x Full Spec. 4K Optical	
			Standard : ARIB STD-B56	
	HDMI Output		1 x HDMI2.0	
			HDMI2.0	
	Video Format		2160p : 3840 × 2160 59.94Hz	4K down-converted output when 8K signal received
Output Audio Signal - I/F				
Audio Signal	Format		Embedded	
	Sampling Frequency		48kHz	
	The number of channel		Up to 32 channels	Up to 8 channels (HDMI output)
Output Synchronization - I/F				
NTSC BB	Format		NTSC Analog Black Burst	
	Standard		SMPTE RP 154	
NTP	Format		Ethernet (GbE)	
	Standard		IEEE 1588, ARIB STD-B60	

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Item		Function		Comment
Input TS - I/F				
	DVB-ASI	Format	DVB-ASI	
		Standard	ISO / IEC 13818-1, EN 50083-9	
		Transmission Mode	Packet Mode / Burst Mode	
		Packet Length	188 Byte / 204 Byte	
Input MMT / IP, Input TLV / IP - I/F				
	Ethernet	Format	MMT / IP, TLV / IP	
		Standard	IEEE 802.3 / 3u / 3ab (LAN), ARIB STD-B60, ISO 23008-1	
Control - I/F				
	Ethernet	Format	Ethernet (GbE)	
		Standard	IEEE 802.3 / 3u / 3ab (LAN)	
Monitoring - I/F				
	Ethernet	Format	Ethernet (GbE)	
		Standard	IEEE 802.3 / 3u / 3ab (LAN)	
		Protocol	HTTP, SNMP	
	Alarm / Status	Format	Contact Control (GND / open)	
			Open-collector (GND / open)	

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Item		Function		Comment
Video Decoding				
	Decoding Format		H.265 MPEG-H HEVC (ISO / IEC 23008-2)	
	Resolutions	8K operating	4320p : 7680 x 4320	
		4K operating	2160p : 3840 x 2160	
	Chroma Format		4:2:0	
	Profile@Level	8K operating	Main10@Level6.1	
		4K operating	Main10@Level5.1	
	ES bitrate	8K operating	60Mbps ~ 140Mbps @Main tier	
		4K operating	15Mbps ~ 40Mbps @Main tier	
Audio Decoding				
	Decoding Format		MPEG-4 AAC LC	
	Channel Mode		1/0, 2/0, 5.1ch, 22.2ch	
	ES bitrate		32kbps ~ 3072kbps	
	The number of ES		Up to 4ES	
Physical				
	Operating Temperature		5℃ ~ 40℃	
	Power Supply		AC100V ~ 240V	
	Power Consumption		AC100V ~ 240V Main Unit : ~ 500VA Video Decoding Server : ~ 800VA	
	Dimensions / Weight		Main Unit : 440mm(W) × 670mm(D) × 220mm(H), 45kg Video Decoding Server : 444mm(W) × 750mm(D) × 87mm(H), 30kg	