

Comparison of IP-9500 and IP-900 (HD Encoder)

Specifications

Item		IP-9500 (Encoder/Decoder)	IP-900E (IP Enc. with HD Opt.)	IP-9500D (Decoder)	IP-900D (IP Decoder)
I/F	Video Input	HD/SD-SDI x 1 HDMI x 1	HD/SD-SDI x 1 HDMI x 1 NTSC/PAL x 1		
		59.94 Hz 50 Hz	59.94 Hz 50 Hz 60 Hz		
	Video Output	HD/SD-SDI x 1 HDMI x 1 NTSC/PAL x 1 (MON)		HD/SD-SDI x 1 HDMI x 1 NTSC/PAL x 1 (MON)	HD/SD-SDI x 1 HDMI x 1 NTSC/PAL x 1
		59.94 Hz 50 Hz		59.94 Hz 50 Hz	59.94 Hz 50 Hz 60 Hz
	Audio Input	SDI Embedded x 4 pairs HDMI x 1 pair Analog Balanced x 1 pair	SDI Embedded x 1 pair HDMI x 1 pair Analog Balanced x 1 pair		
	Audio Output	SDI Embedded x 4 pairs HDMI x 1 pair Analog Balanced x 1 pair		SDI Embedded x 4 pairs HDMI x 1 pair Analog Balanced x 1 pair	SDI Embedded x 1 pair HDMI x 1 pair Analog Balanced x 1 pair
	Network	10/100/1000BASE-T x 1 DVB-ASI x 1	10/100BASE-T x 1	10/100/1000BASE-T x 1 DVB-ASI x 1	10/100BASE-T x 1
	Data	RS-232C pass-thru		RS-232C pass-thru	

Specifications

Item	IP-9500 (Encoder/Decoder)	IP-900E (IP Enc. with HD Opt.)	IP-9500D (Decoder)	IP-900D (IP Decoder)
Storage	4/8/16GB			
Control	WEB GUI Front Control panel	WEB GUI	WEB GUI Front Control panel	WEB GUI
Dimensions	430W x 393D x 45H mm 423W x 350D x 42H mm (w/o accessories)	210W x 300D x 42H mm	430W x 393D x 45H mm 423W x 350D x 42H mm (w/o accessories)	210W x 300D x 42H mm
Weight	6 kg	2 kg	6 kg	2 kg
Power Inlet	100-240 Vac		100-240 Vac	
Power Consumption	Max. 60W (w/o option) Max. 90W (w/ option)	Max. 38W	Max. 60W	Max. 38W
Temperature	-10 ~ 55 deg.C		-10 ~ 55 deg.C	
Humidity	20 ~ 90%RH (Non-condensing)		20 ~ 90%RH (Non-condensing)	

Specifications

Item		IP-9500 (Encoder/Decoder)		IP-900E (IP Enc. with HD Opt.)		IP-9500D (Decoder)		IP-900D (IP Decoder)			
V i d e o	Coding		MPEG-4 AVC (H.264)				MPEG-4 AVC (H.264)				
	Profile	HD	HP@L4, MP@L4 CSC422		HP@L4, MP@L4		HP@L4, MP@L4 CSC422		HP@L4, MP@L4		
		SD	HP@L3, MP@L3, MP@L1.3				HP@L3, MP@L3, MP@L1.3				
	Reso- -lution	HD		1920/1440/960 x 1080i 1280/960/640 x 720p				1920/1440/960 x 1080i 1280/960/640 x 720p			
		SD	29.94 Hz	720 x 480i 352 x 240i		720 x 480i 352 x 240i 176 x 112i		720 x 480i		720 x 480i 352 x 240i 176 x 112i	
			25Hz	720 x 576i 352 x 288i		720 x 576i 352 x 288i 176 x 144i		720 x 576i		720 x 576i 352 x 288i 176 x 144i	
	Bit Rate	HD		3-27 Mbps		1-27 Mbps		4-27 Mbps		1-27 Mbps	
		SD		1.3-10 Mbps		500 kbps - 10 Mbps @D1 50 - 384 kbps @<D1		1.3-10 Mbps		500 kbps - 10 Mbps @D1 50 - 384 kbps @<D1	
CBR/VBR		CBR		CBR/VBR		CBR		CBR/VBR			
A u d i o	Encoding		MPEG-1 Layer-2 MPEG-2 AAC Dolby-E pass thru Uncompressed		MPEG-1 Layer2 MPEG-2 AAC		MPEG-1 Layer-2 MPEG-2 AAC Dolby-E pass thru Uncompressed		MPEG-1 Layer2 MPEG-2 AAC		
	Quantization		Sampling rate : 48kHz Quantization bit : 16bit				Sampling rate : 48kHz Quantization bit : 16bit				

Specifications

Item		IP-9500 (Encoder/Decoder)	IP-900E (IP Enc. with HD Opt.)	IP-9500D (Decoder)	IP-900D (IP Decoder)
System		MPEG-2 TS (ASI) MPEG-2 TS/TTS (IP)	MPEG-2 TS/TTS (IP)	MPEG-2 TS (ASI) MPEG-2 TTS (IP)	MPEG-2 TS/TTS (IP)
Latency	IP	Standard (~1.56s) Low Latency (~500ms)	Standard (~1.56s) Low Latency (~400ms)	Standard (~1.56s) Low Latency (~500ms)	Standard (~1.56s) Low Latency (~400ms)
	ASI	Standard (~1.38s) Low Latency (~300ms)		Standard (~1.38s) Low Latency (~300ms)	
Error Correction		Fujitsu FEC/ARQ Pro-MPEG FEC COP3		Fujitsu FEC/ARQ Pro-MPEG FEC COP3	
Protocol		RTP/UDP/IP UDP/IP Unicast Multicast HTTP (for control & management)		RTP/UDP/IP UDP/IP Unicast Multicast HTTP (for control & management)	
Dual Encoding		Supported			
Management		ID/Password user authentication (http-based GUI) SNMP SNTP Client		ID/Password user authentication (http-based GUI) SNMP SNTP Client	
Configuration Data		10 Preprogrammed Configuration Data Backup & Restore		10 Preprogrammed Configuration Data Backup & Restore	

Comparison of IP-9000 and IP-900 (SD Encoder)

Specifications

Item		IP-9000 (Encoder/Decoder)	IP-900E (IP Encoder)	IP-9500D (Decoder)	IP-900D (IP Decoder)
I/F	Video Input	SD-SDI x 1 HDMI x 1	SD-SDI x 1 HDMI x 1 NTSC/PAL x 1		
		59.94 Hz 50 Hz	59.94 Hz 50 Hz 60 Hz		
	Video Output	SD-SDI x 1 HDMI x 1 NTSC/PAL x 1 (MON)		SD-SDI x 1 HDMI x 1 NTSC/PAL x 1 (MON)	SD-SDI x 1 HDMI x 1 NTSC/PAL x 1
		59.94 Hz 50 Hz		59.94 Hz 50 Hz	59.94 Hz 50 Hz 60 Hz
	Audio Input	SDI Embedded x 4 pairs HDMI x 1 pair Analog Balanced x 1 pair	SDI Embedded x 1 pair HDMI x 1 pair Analog Balanced x 1 pair		
	Audio Output	SDI Embedded x 4 pairs HDMI x 1 pair Analog Balanced x 1 pair		SDI Embedded x 4 pairs HDMI x 1 pair Analog Balanced x 1 pair	SDI Embedded x 1 pair HDMI x 1 pair Analog Balanced x 1 pair
	Network	10/100/1000BASE-T x 1 DVB-ASI x 1	10/100BASE-T x 1	10/100/1000BASE-T x 1 DVB-ASI x 1	10/100BASE-T x 1
	Data	RS-232C			RS-232C

Specifications

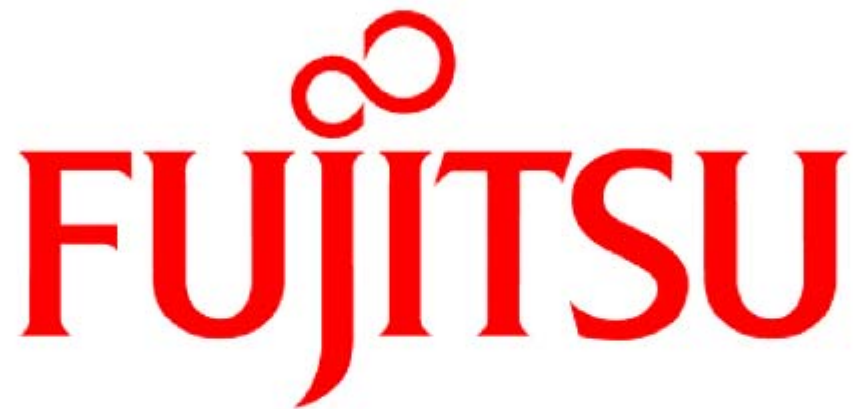
Item	IP-9000 (Encoder/Decoder)	IP-900E (IP Encoder)	IP-9500D (Decoder)	IP-900D (IP Decoder)
Storage	4/8/16GB			
Control	WEB GUI Front Control panel	WEB GUI	WEB GUI Front Control panel	WEB GUI
Dimensions	430W x 393D x 45H mm 423W x 350D x 42H mm (w/o accessories)	210W x 300D x 42H mm	430W x 393D x 45H mm 423W x 350D x 42H mm (w/o accessories)	210W x 300D x 42H mm
Weight	6 kg	2 kg	6 kg	2 kg
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Power Consumption	Max. 60W (w/o option) Max. 90W (w/ option)	Max. 38W	Max. 60W	Max. 38W
Temperature	-10 ~ 55 deg.C		-10 ~ 55 deg.C	
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Item		IP-9000 (Encoder/Decoder)		IP-900E (IP Encoder)		IP-9500D (Decoder)		IP-900D (IP Decoder)		
V i d e o	Coding		MPEG-4 AVC (H.264)				MPEG-4 AVC (H.264)			
	Profile	HD					HP@L4, MP@L4 CSC422		HP@L4, MP@L4	
		SD	HP@L3, MP@L3, MP@L1.3				HP@L3, MP@L3, MP@L1.3			
	Reso- -lution	HD					1920/1440/960 x 1080i 1280/960/640 x 720p			
		SD	29.94 Hz	720 x 480i 352 x 240i	720 x 480i 352 x 240i 176 x 112i	720 x 480i		720 x 480i 352 x 240i 176 x 112i		
			25Hz	720 x 576i 352 x 288i	720 x 576i 352 x 288i 176 x 144i	720 x 576i		720 x 576i 352 x 288i 176 x 144i		
	Bit Rate	HD					4-27 Mbps		3-12 Mbps	
		SD	1.3-10 Mbps	500 kbps - 10 Mbps @D1 50 - 384 kbps @<D1		1.3-10 Mbps		500 kbps - 10 Mbps @D1 50 - 384 kbps @<D1		
CBR/VBR		CBR		CBR/VBR		CBR		CBR/VBR		
A u d i o	Encoding		MPEG-1 Layer-2 MPEG-2 AAC Dolby-E pass thru Uncompressed		MPEG-1 Layer2 MPEG-2 AAC		MPEG-1 Layer-2 MPEG-2 AAC Dolby-E pass thru Uncompressed		MPEG-1 Layer2 MPEG-2 AAC	
	Quantization		Sampling rate : 48kHz Quantization bit : 16bit				Sampling rate : 48kHz Quantization bit : 16bit			

Specifications

Item		IP-9000 (Encoder/Decoder)	IP-900E (IP Encoder)	IP-9500D (Decoder)	IP-900D (IP Decoder)
System		MPEG-2 TS (ASI) MPEG-2 TS/TTS (IP)	MPEG-2 TS/TTS (IP)	MPEG-2 TS (ASI) MPEG-2 TTS (IP)	MPEG-2 TS/TTS (IP)
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Protocol		RTP/UDP/IP UDP/IP Unicast Multicast HTTP (for control & management)		RTP/UDP/IP UDP/IP Unicast Multicast HTTP (for control & management)	
Dual Encoding		Supported			
Management		ID/Password user authentication (http-based GUI) SNMP SNTP Client		ID/Password user authentication (http-based GUI) SNMP SNTP Client	
Configuration Data		10 Preprogrammed Configuration Data Backup & Restore		10 Preprogrammed Configuration Data Backup & Restore	



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