

FRC-9100 Datasheet

1. Specifications

Basic specifications

Temperature	0°C to 40°C
Humidity	30% to 85% (no condensation)
Power	100 V to 240 V AC 50/60 Hz
Consumption	548 VA at 100 V 566 VA at 240 V
Dimensions	430(W) x 537(D) x 132(H) mm 480(W) (Including rack mount brackets)
Weight	FRC-9100: 20.5 kg FRC-90DA: 2.4 kg
Consumables (at 24-hour operation)	Power unit: Replace every 5 years (at room temperature) Cooling fan: Replace every 4 years (at room temperature)

Technical specifications

Video formats	4K: 2160p /59.94, 50 (12G-SDI, Quad Link 3G-SDI, Level-A/B, SQD/2SI) 2160p /30, 29.97, 25, 24, 23.98 (Quad Link HD-SDI, SQD) HD: 1080p / 60, 59.94, 50 (Level-A/B) 1080p / 30, 29.97, 25, 24, 23.98 1080i / 60, 59.94, 50, 720p /60, 59.94, 50 SD: 525/59.94i, 625/50i				
Frame rate conversion	<table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>2160p, 1080p 1080i, 720p</td></tr> <tr><td>525/59.94i 625/50i</td></tr> </table> < - > <table border="1" style="display: inline-table; margin-left: 20px;"> <tr><td>2160p, 1080p 1080i, 720p</td></tr> <tr><td>1080p 1080i, 720p</td></tr> </table>	2160p, 1080p 1080i, 720p	525/59.94i 625/50i	2160p, 1080p 1080i, 720p	1080p 1080i, 720p
2160p, 1080p 1080i, 720p					
525/59.94i 625/50i					
2160p, 1080p 1080i, 720p					
1080p 1080i, 720p					
Video input	12G-SDI: 12 Gbps 75Ω BNC x 1 3G/HD/SD-SDI: 3 Gbps/ 1.5 Gbps / 270Mbps 75Ω BNC x 4				
Video output	12G-SDI: 12 Gbps 75Ω BNC x 2 3G/HD-SDI: 3 Gbps/1.5 Gbps 75Ω BNC x 4 Pass-through input to output is possible (relay circuit) in 3G/HD-SDI.				
Quantization	12G/3G/HD/SD-SDI: 10-bit				
Genlock input	BB: 0.429 Vp-p (NTSC) /0.45 Vp-p (PAL) or Tri-level sync: 0.6 V, BNC x 2, loop-through (Terminate with 75Ω terminator, if unused.)				
I/O delay	+5 to +1000 ms (depending on input / output formats)				
Audio input	Embedded audio:	4 groups (16 channels) 48 kHz 16-bit to 24-bit synchronous / asynchronous			
(FRC-90DA)	AES/EBU: Metadata input: Reference input:	1.0 Vp-p unbalanced 16 stereo pairs 32/44.1/48 kHz 16-bit to 24-bit 75Ω BNC x 16 9-pin D-sub (female) x 2 BB: 0.429 Vp-p (NTSC) /0.45 Vp-p (PAL) or Tri-level sync: 0.6 V, BNC x 2			

Audio output	Embedded audio:	4 groups (16 channels) 48 kHz 16-/20-/24-bit synchronous / asynchronous
(FRC-90DA)	AES/EBU:	1.0 Vp-p unbalanced 16 stereo pairs 48 kHz 16-/20/24-bit 75Ω BNC x 16
	Metadata output:	9-pin D-sub (female) x 2
	Audio delay adjustment	+5 to +1000 ms (in 1 ms step) for each channel
	Gain adjustment	-20 dB to +20 dB (in 0.1 dB step) for each channel
	Audio processing	SRC (Sample Rate Converter), Down mix, Channel re-mapping, Channel mute
Ancillary data	Audio data, Audio metadata embedding / de-embedding, Timecode	
Interface	LAN	100BASE-TX / 1000BASE-T RJ-45 1 port For web browser and Dolby Metadata Configure GUI connections

Options

FRC-912C	3G/HD/SD-SDI 2ch Option for FRC-9100
FRC-914K	4K Option for FRC-9100
FRC-90DA	Digital Audio Input / Output card
FRC-90DM	Dolby® E Encoder/Decoder card

Accessories

EIA Rack Mount Brackets, AC cord, CD-ROM, and Packing list

2. External Dimensions

(All dimensions in mm.)

