

4K/3G/HD FRAME RATE CONVERTER **FRC-9000**

Enhanced operation and expandability at affordable pricing
 Capable of 4K support using optional software



Exterior design may be subject to change without prior notice.

- 3G/HD multi-format support
- 4K (QFHD) support (Optional)
- Conversion with Motion Compensation Processing
- Interlace-to-Progressive conversion
- Simultaneous conversion of 2-channel video inputs (Optional: when using 3G/HD-SDI)

4K/HD multi-format supported.

Simultaneous conversion of 2-channel video inputs also available with option.

■ 1-ch HD IN distributed to 4 HD OUT



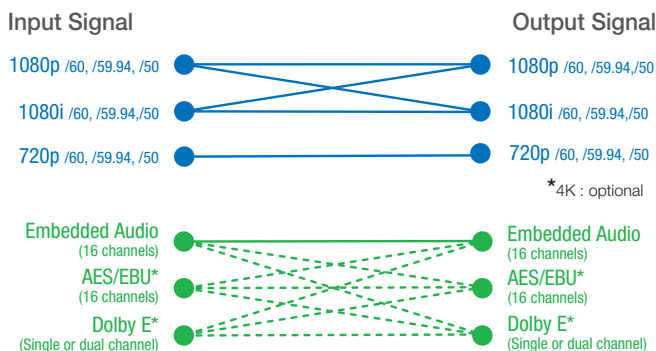
■ Simultaneous conversion of 2 HD channels (Optional)



■ 4K SQD support (Optional)



Various frame rate conversion



* : Optional

Other features

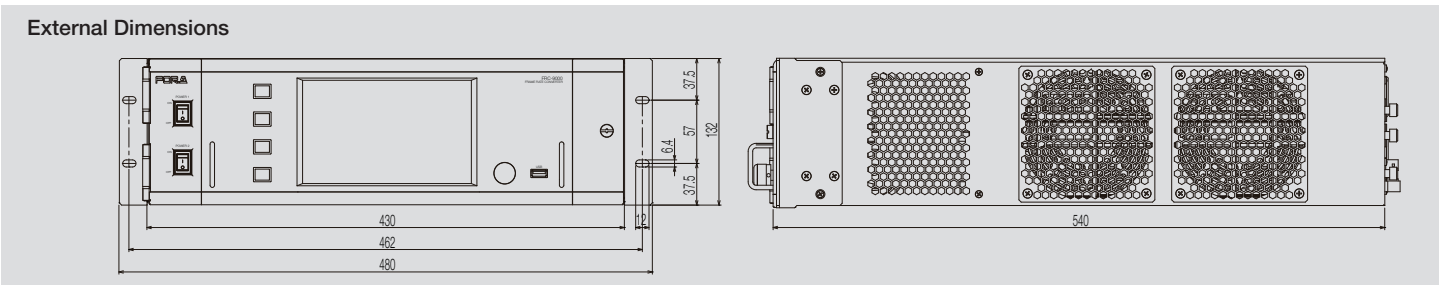
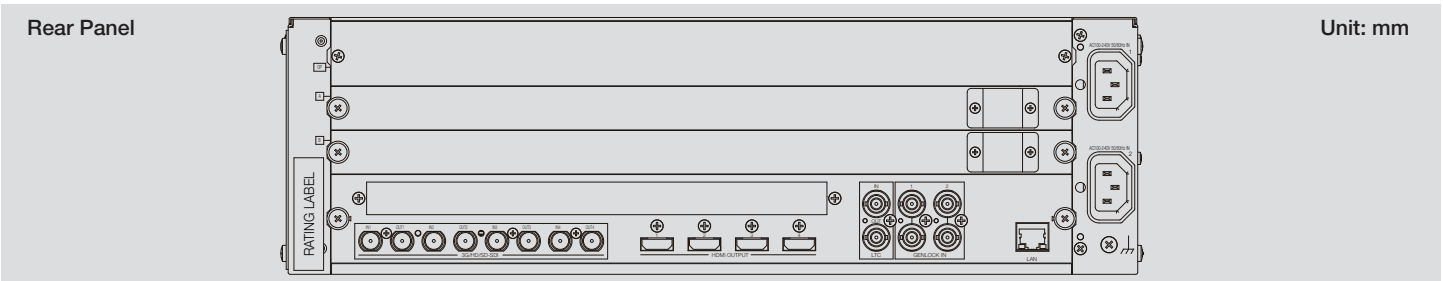
- Scene Cut Detection
- Genlock
- Front touch panel and web browser control
- 16-channel AES/EBU I/O (48kHz,24-bit : Optional)
- FRC-90DA (Optional): AES/EBU digital audio
- FRC-90DM* (Optional): Dolby E 2-channel encoder/decoder

*required FRC-90DA mounted

Specifications

Video format	4K-SDI (Optional): 2160/50p (Level-A/B, SQD), 2160/59p (Level-A/B, SQD), 2160/60p (Level-A/B, SQD) 3G-SDI: 1080/50p, 1080/59p, 1080/60p (Level-A/B) HD-SDI: 1080/50i, 1080/59i, 1080/60i, 720/50p, 720/59p, 720/60p	
Frame rate conversion	2160/59p ⇔ 2160/50p, 2160/59p ⇔ 2160/60p, 2160/60p ⇔ 2160/50p 1080/59p ⇔ 1080/50p, 1080/59p ⇔ 1080/60p, 1080/60p ⇔ 1080/50p 1080/59p ⇔ 1080/50i, 1080/59p ⇔ 1080/60i, 1080/60p ⇔ 1080/50i 1080/59i ⇔ 1080/50p, 1080/59i ⇔ 1080/60p, 1080/60i ⇔ 1080/50p 1080/59i ⇔ 1080/50i, 1080/59i ⇔ 1080/60i, 1080/60i ⇔ 1080/50i 720/59p ⇔ 720/50p, 720/59p ⇔ 720/60p, 720/60p ⇔ 720/50p	
Video Inputs	<3G/HD-SDI> 75Ω BNC x 4 (Pass-through input to output possible) - 3G-SDI (Level-A/B): 3Gbps - HD-SDI: 1.5Gbps	<HDMI> HDMI (TYPE A) x 4 - Resolution: 1920x1080, 1280x720
Video Output	3G-SDI (Level-A/B): 3 Gbps, HD-SDI: 1.5 Gbps, 75Ω BNC x 4 (Pass-through input to output is possible.)	
Quantization	3G/HD-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 1	
I/O delay	+5 to +1000 ms (depending on input/output formats) (Ex: I/O delay when converting from 1080/59.94i to 1080/50i: Approx. 105ms)	
Audio Input	Embedded audio 4 groups (16 channels) 48 kHz 16-bit to 24-bit synchronous/asynchronous	
Audio Output	<SDI> Embedded audio 4 groups (16 channels) 48kHz 16/20/24-bit synchronous/asynchronous	<HDMI> Embedded audio 4 stereo (8 channels) 48kHz 24-bit
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	
Ancillary data	Supports embedded audio only.	
Interface	LAN: 100 Base-TX/1000 Base-T, RJ-45, 1-port For controlling through web browser	
Temperature / Humidity	0°C to 40°C / 30% to 85% (no condensation)	
Power	100 V AC to 240 V AC, 50/60 Hz	
Power consumption	501.8 VA at 100V	
Dimensions / Weight	430 (W) x 132 (H) x 540 (D) mm / 20.5 kg	
Accessories	Rack mount brackets, AC cord, CD-ROM (operation manual)	
Consumables	Power unit: replace every 5 years (at room temperature), Cooling fan: replace every 4 years (at room temperature)	
Options	FRC-90DA: AES/EBU digital audio, FRC-90DM: Dolby E 2-channel encoder/decoder, FRC-902C: 3G/HD-SDI 2ch option, FRC-904K: 4K option	

* Dolby is a registered trademark of Dolby Laboratories.



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ISO 9001 and 14001 certified (Sakura R&D)

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