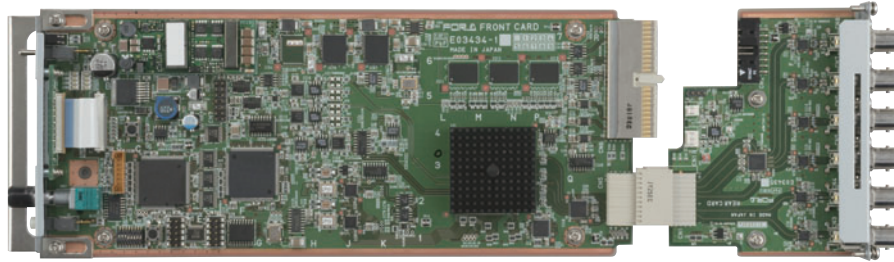




HD/SD Frame Synchronizer

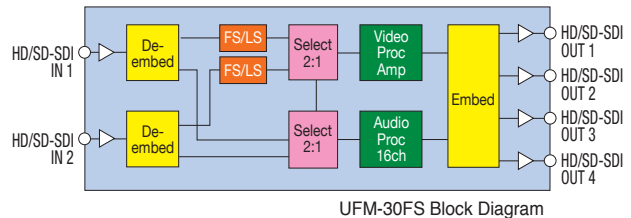
UFM-30FS/30FS-R/30FS-DA



Modular-type HD/SD-supported frame synchronizer that can be equipped to UFM frame. The lineup includes multiple model choices to meet user applications. With a device design that anticipates the next-generation signal specification 3Gbps, the line enables continued device usage during transition to the 1080/60p, 1080/59.94p and 1080/50p formats.

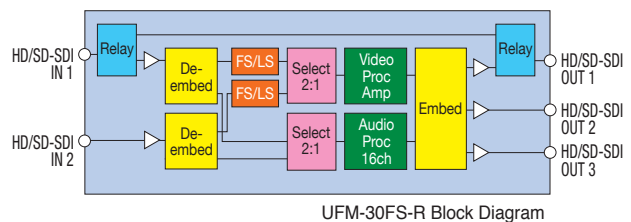
UFM-30FS (Standard Model)

- HD/SD SDI 2-Input/4-Output (manual or auto input switching)
- Six HD/SD Standards: 1080/59.94i, 50i, 720/59.94p, 50p, 525/60 and 625/50 (standard support)
- Additional 12 HD Standards support (optional support)
- Three Sync mode: Frame, Line and Input
- Proc Amp
- Video Clip
- Video Delay Adjust (up to 10 frames)
- 16-channel Embedded Audio support (asynchronous audio available for HD-SDI)
- 16-channel Audio SRC (Sample Rate Converter)
- Audio Delay Adjust for each channel (up to 1000ms)
- Audio Channel Remapping
- H/V ancillary data pass-through (source-synchronous input only)
- Freeze function



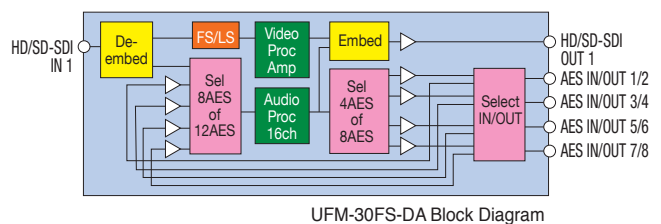
UFM-30FS-R (Relay Bypass mount model)

- HD/SD SDI 2-Input/3-Output (manual or auto input switching)
- Relay bypass function



UFM-30FS-DA (Audio Embedder / De-embedder mount model)

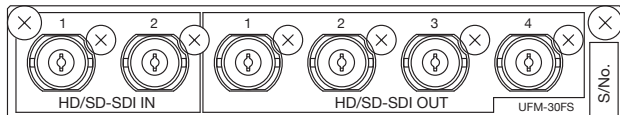
- HD/SD SDI 1-input/1-output
- AES/EBU 4-Input (8-channel) or AES/EBU 4-Output (8-channel) selectable
- If AES/EBU 4-Input selected: 16 channels to be re-embedded are selected from 24 channels including 8 channels of AES/EBU and 16 channels of SDI embedded audio.
- If AES/EBU 4-Input selected: 8 channels for AES/EBU outputs are selected from 16 channels of SDI embedded audio.



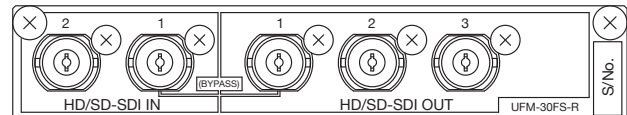
Specifications

Modeo	UFM-30FS	UFM-30FS-R	UFM-30FS-DA
Standard	HD: 1080/59.94i, 1080/50i, 720/59.94p, 720/50p SD: 525/60, 625/50		
Standard (option)	1080/60i, 1080/30p, 1080/29.97p, 1080/25p, 1080/24p, 1080/24PsF, 1080/23.98p, 1080/23.98PsF, 720/60p		
Video Input	HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps, 75Ω, BNC x 2		HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps, 75Ω, BNC x 1
Genlock Input	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p, Supply from UFM frame		
Video Output	HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75Ω, BNC x 4	HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75Ω, BNC x 3	HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75Ω, BNC x 1
Sync Mode	Frame Sync, Line Sync (1 H or multiple lines) or Input Sync mode selectable		
Video Delay	Adjustable up to 10 frames (per frame/line/clock)		
System Phase Adjust	Frame Sync mode: H phase ±1/2 H, V phase ±1/2 frame, Line Sync mode: H phase±1/2 H Input Sync mode: H phase ±1/2 H, V phase ±1/2 frame, Minimum delay: 400 clk at 74 MHz (HD) or 27 MHz (SD)		
Proc Amp	Video level: 0% to 200.0%, Chroma level: 0% to 200.0% Black level: -7.0 to 20.0%, Chroma phase: -180.0 to +180.0°		
Video Clip	White clip: 50.0% to 109.0%, Black clip: -7.0% to 50.0%, Chroma clip: 50.0% to 113.0%		
Embedded Audio Input	HD: 48 kHz (synchronous/asynchronous) x 16 (GROUP 1 to 4) SD: 48 kHz (synchronous only) x 16 (GROUP 1 to 4)		
Embedded Audio Output	HD: 48 kHz (synchronous/asynchronous) x 16 (GROUP 1 to 4) SD: 48 kHz (synchronous only) x 12 (GROUP 1 to 3)		
Digital Audio			AES/EBU: 1.0 Vp-p, unbalanced, 75Ω BNC x 8 (4 stereo pairs) 4-input or 4-output selectable <If 4-input selected> Sampling Frequency: 32 kHz/44.1 kHz/48 kHz Quantization: 16-bit to 24-bit <If 4-output selected> Sampling Frequency: 48 kHz Quantization: 24-bit
Audio Delay	2 ms to 1,000 ms (Adjust per 1ms)		
Audio Function	Sampling Rate Converter (SRC), Gain Adjustment, Channel Re-mapping, Channel Mute (can be set 16 channels separately)		
Temperature / Humidity	0°C - 40°C / 30% - 85% (no condensation)		
Power / Consumption / Draw	Supply from UFM Frame, +24 VDC / Approx. 20 W / Approx. 0.8 A		
Dimensions	Front module:106 (W) x 293.2 (D) mm, Rear module:108.5(W) x 91.6 (D) mm		
Weight	Approx. 0.5 kg		
Require Slot	UFM 1-slot		
Accessory	Operation manual		
Options	Video Standards support / 3G-SDI support / Remote Control Card (UFM-30CTL) / Remote Control Unit (UF-NETRU)		

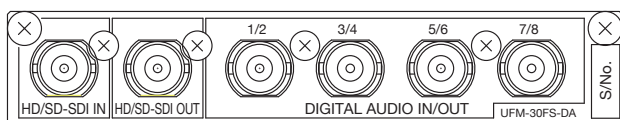
UFM-30FS Rear Panel



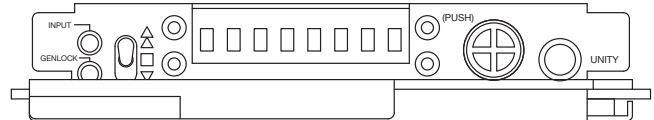
UFM-30FS-R Rear Panel



UFM-30FS-DA Rear Panel



UFM-30FS/30FS-R/30FS-DA Front Panel



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