



HD/SD Frame Synchronizer

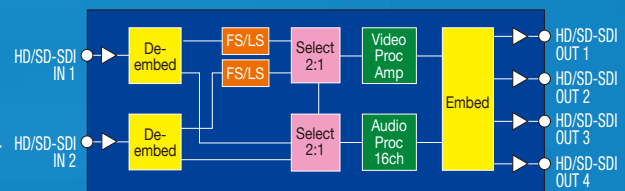
UFM-30FS/30FS-R/30FS-DA

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.



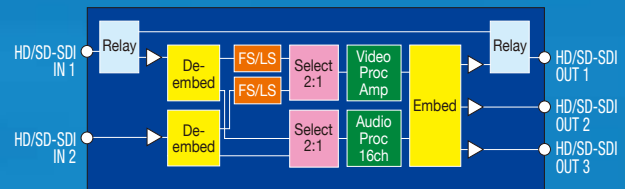
UFM-30FS

- HD/SD-SDI dual input x 2-outputs or 1 input x 4 outputs
- Automatic change-over switching function
- Line synchronizer mode or frame synchronizer mode
- Complete ANC data pass-through
- 16-channel embedded audio with sampling rate converter
- Proc. Amp. function



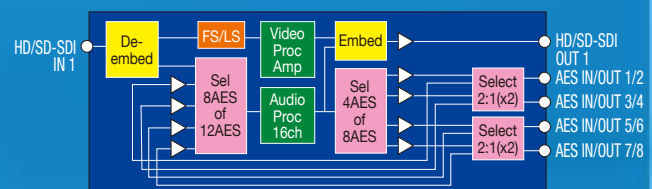
UFM-30FS-R

- Relay Bypass mount model
- HD/SD-SDI 2 inputs, 3 outputs



UFM-30FS-DA

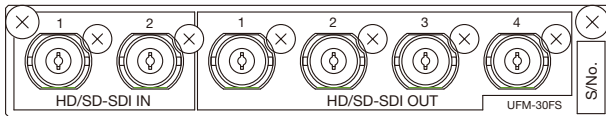
- Audio Mux/De-mux mount model
- Frame synchronizer with audio multiplexer
- HD/SD-SDI 1 input x 1 output
- Audio signal synchronous with video signal
- Equipped with 4 digital audio inputs, it can re-embed and output a combination of any 16 channels out of 24 (the total of 8 external digital audio channels and 16 channel audio signals embedded in video signal)
- Equipped with 4 digital audio outputs, it can output any 4 groups from 16-channel embedded audio (4 AES output)
- Choice of audio output: asynchronous (SRC BYPASS) or synchronous (SRC OPERATE)



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: 1.485Gbps or 1.485/1.001Gbps or SD-SDI: 270Mbps, 75Ω, 2 inputs, BNC | | HD-SDI: 1.485Gbps or 1.485/1.001Gbps or SD-SDI: 270Mbps, 75Ω, 1 inputs, BNC |
| Reference Input | BB: NTSC: 0.429Vp-p/PAL: 0.45Vp-p, Supply from UFM frame | | |
| Video Output | HD-SDI: 1.485Gbps or 1.485/1.001Gbps or SD-SDI: 270Mbps, 75Ω, 4 outputs, BNC | HD-SDI: 1.485Gbps or 1.485/1.001Gbps or SD-SDI: 270Mbps, 75Ω, 3 outputs, BNC | HD-SDI: 1.485Gbps or 1.485/1.001Gbps or SD-SDI: 270Mbps, 75Ω, 1 outputs, BNC |
| Synchronizer Mode | Frame Synchronizer Mode / Line Synchronizer Mode / Input Synchronizer Mode (Selectable) | | |
| Video I/O Delay | Max. 8 frames (Adjust per frame/line/clock) | | |
| Sampling Frequency | HD: Y: 74.25MHz or 74.25/1.001MHz, C: 37.125MHz or 37.125/1.001MHz SD: Y: 13.5MHz, C: 6.75MHz | | |
| System phase adjustment | Frame Synchronizer Mode: H phase: -1/2 - +1/2H, V Phase: -1/2 - +1/2 frame, 0 - 10 frame Line Synchronizer Mode: H phase: -1/2 - +1/2H, AVDL Input Synchronizer Mode: H phase: -1/2 - +1/2H, V Phase: -1/2 - +1/2 frame, 0 - 10 frame | | |
| Process Control | Video level: 0% - 200% Y level: 0% - 200% C level: 0% - 200% HUE: ±180° Setup level: ±25% | | |
| Audio Input | Embedded: 16 channel (GROUP 1-4), 48kHz asynchronous (SD-SDI input signal: only synchronous) | | AES/EBU: 1.0Vp-p unbalanced 75Ω, 4 inputs (8 channel), BNC, 48kHz asynchronous *Require Switching Input and Output |
| Audio Output | Embedded: 16 channel (GROUP 1-4), 48kHz asynchronous (HD only) (SD-SDI output signal can be embedded up to 12 channels) | | AES/EBU: 1.0Vp-p unbalanced 75Ω, 4 output (8 channel), BNC, 48kHz asynchronous *Require Switching Input and Output |
| Audio I/O Delay | Max 1 sec. (Adjust per 1ms) | | |
| Audio Function | Sampling Rate Converter (SRC), Gain Adjustment, Channel Re-mapping, Channel Mute (can be set 16 channels separately) | | |
| Power / Consumption / Draw | Supply from UFM Frame, +24VDC / Approx. 20W / Approx. 0.8A | | |
| Dimensions / Weight | UFM 1 slot *Can be installed only into UF-112, not into UF-106/106A. / Approx. 0.5kg | | |
| Accessories | Operation manual | | |

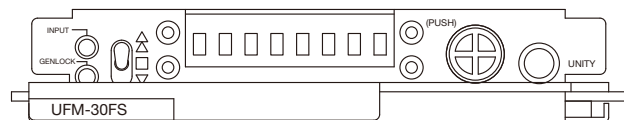
UFM-30FS Rear Panel



UFM-30FS-R Rear Panel

UFM-30FS-DA Rear Panel

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



FOR-A COMPANY LIMITED

Head Office : 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan

FOR-A America Corporate Office : 11125 Knott Ave., Suite #A, Cypress, CA 90630, USA

FOR-A America East Coast Office : 2 Executive Drive, Suite 670, Fort Lee Executive Park, Fort Lee NJ 07024, USA

FOR-A Latin America & the Caribbean : 5200 Blue Lagoon Drive, Suite #760, Miami, FL 33126, USA

FOR-A Corporation of Canada : 346A Queen Steet West, Toronto, Ontario M5V 2A2, CANADA

FOR-A UK Limited : UNIT C71, Barwell Business Park, Leatherhead Road, Chessington Surrey, KT9 2NY, UK

FOR-A Italia S.r.l. : Viale Europa 50 20093, Cologno Monzese (MI), Milan, Italy

FOR-A Corporation of Korea : 801 Dangsang Bld., 53-1 Dangsang-Dong, Youngdeungpo-Gu, Seoul 150-800, Korea

FOR-A China Limited : Room C302 Tia Hao International Bld., 116 Zizhu-Yuan Road, Haidiangu District, Beijing, China

Homepage: <http://www.for-a.com/>

+81 (0)3-3446-3936

Fax : +81 (0)3-3446-1470

+1 714-894-3311

Fax : +1 714-894-5399

+1 201-944-1120

Fax : +1 201-944-1132

+1 352-371-1505

Fax : +1 352-378-5320

+1 305-931-1700

Fax : +1 305-264-7890

+1 416-977-0343

Fax : +1 416-977-0657

+44 (0)20-8391-7979

Fax : +44 (0)20-8391-7978

+39 02-254-3635/6

Fax : +39 02-254-0477

+82 (0)2-2637-0761

Fax : +82 (0)2-2637-0760

+86 (0)10-5170-9870

Fax : +86 (0)10-5170-9772



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