

Frame Synchronizer / Time Base Corrector

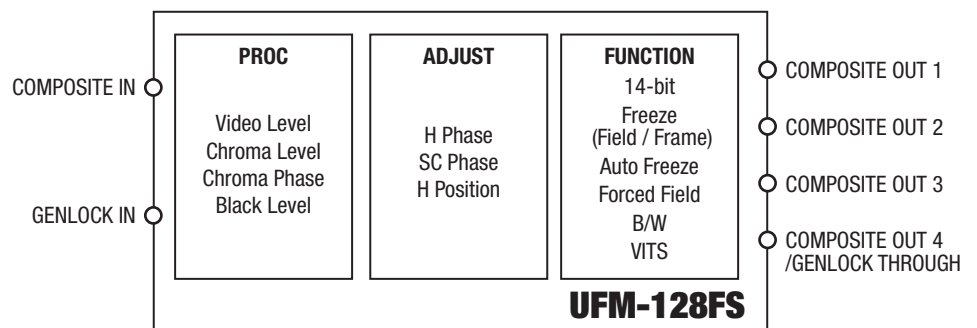
UFM-128FS

The UFM-128FS is a module-type frame synchronizer. The world's first 14-bit digital encoder/decoder is used to provide unparalleled image quality.

Features

- World's first 14-bit internal processing frame synchronizer.
- Superior correction range and image quality.
- Analog composite 1 input and 4 outputs.
- 4:2:2 component internal signal processing.
- NTSC/PAL automatic detection.
- Digital 3-line adaptive comb filter processing.
- Full frame memory to prevent picture field inversion during processing.
- Wide range genlock capability, almost any VHS signal can be genlocked.
- Process control functions. (video level, chroma level, setup level and chroma phase)
- Standalone type FA-128 lineup.

Block Diagram



**FS
&
TBC**

**Analog
Composite
1 in**

**Analog
Composite
4 out**

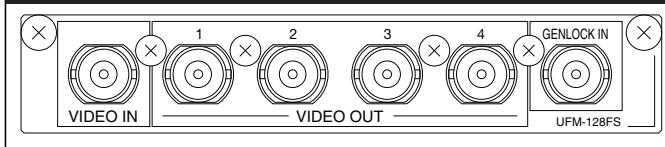
**14 bit
Process**

**NTSC
&
PAL**

Specifications

● Standard	NTSC & PAL (Auto detect)
● Signal Processing	4:2:2 component
● Correction Range	2 field (field inversion prevented)
● Sampling Frequency	Y: 27MHz, C: 13.5MHz
● Quantization	14-bit
● Video Input	Analog composite: 1.0Vp-p, 75Ω, 1ea., BNC
● Genlock Input	BB: 0.429Vp-p (NTSC) / 0.45Vp-p (PAL), 75Ω or loopthrough (internal switch), 1ea., BNC
● Video Output	Analog composite: 1.0Vp-p, 75Ω, 4ea., BNC
● Frequency Response	100kHz - 4.2MHz: -0.5dB - +0.5dB, 4.2MHz - 5.0MHz: -1.0dB - +1.0dB, roll off above 5.0MHz (NTSC) 100kHz - 5.0MHz: -0.5dB - +0.5dB, 5.0MHz - 5.5MHz: -1.0dB - +1.0dB, roll off above 5.5MHz (PAL)
● S/N Ratio	60dB
● DG/DP	1% / 1° (APL50%)
● K-Factor	Less than 1%
● H/V Tilt	Less than 1%
● Process Control	◆Video Level: -3dB - +3dB ◆Chroma Level: -3dB - +3dB ◆Setup Level: -15 IRE - +15 IRE ◆Chroma Phase: -30° - +30°
● Genlock Phase Control	◆H Phase: -2μs - +2μs ◆SC Phase: -180° - +180° ◆Video Phase: -2μs - +2μs
● Temperature / Humidity	10°C - 40°C / 30% - 90% (no condensation)
● Power / Consumption	Supply from UF Frame, +12VDC - +24VDC / Approx. 9.6VA (9.6W)
● Dimensions / Weight	106 (W) x 303 (D) mm (Front board), 108.5 (W) x 66.1 (D) mm (Rear board) / Approx. 0.5kg
● Accessories	Operation manual

Rear View



Universal Frame Line-up

UF-106



Universal frame that can install up to 6 UFM modules, provides redundancy and universality, and contributes to reduced system space

UF-112



Universal frame that can install up to 12 UFM modules, provides redundancy and universality, and supports remote monitoring with installation of control board

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