

## TBC & Frame Synchronizer

# FA-128

**The FA-128 is a TBC & frame synchronizer. The world's first 14-bit digital encoder/decoder is used to provide unparalleled image quality.**

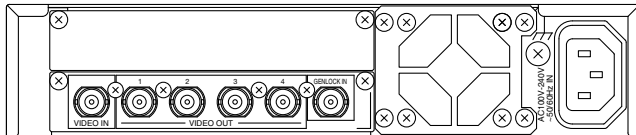


- World's first 14-bit internal processing frame synchronizer.  
Superior correction range and image quality.
- Analog composite 1 input and 4 outputs.
- NTSC/PAL automatic detection.
- 4:2:2 component internal signal processing.
- Digital 3-line adaptive comb filter processing.
- Full frame memory to 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)
- Modular type UFM-128FS lineup.

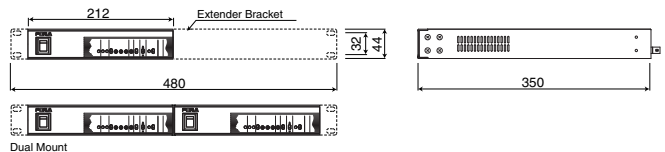
## Specifications

Standard	NTSC or PAL (Auto detect)
Signal Processing	4:2:2 component
Correction Range	2 fields (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 lothrough (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 (without quantization noise)
DG / DP	1% / 1° (APL: 50%)
K-Factor	Less than 1%
H/V Tilt	Less than 1%
Process Control	◆Video Level: -3dB - +3dB ◆Chroma Level: -3dB - +3dB ◆Setup Level: -15IRE - +15IRE ◆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	100VAC - 240VAC ±10%, 50/60Hz / Approx. 22VA (13W) at 100VAC, Approx. 26VA (14W) at 220VAC
Dimensions / Weight	212 (W) x 44 (H) x 350 (D) mm / Approx. 2.5kg
Accessories	Operation manual / AC cord
Options	Single mount or dual mount rack brackets

## Rear Panel



## External Dimensions



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## UFM-128FS



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Universal Frame

## UF-106



The UF-106 is a universal frame with superior reliability and maintainability. It can hold up to 6 UF Series boards.

Universal Frame

## UF-112



The UF-112 is a universal frame with superior reliability and maintainability. It can hold up to 12 UF Series boards.

## 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, U.S.A.

FOR-A America East Coast Office : 1065 Avenue of the Americas Suite #1701A New York, NY 10018, U.S.A.

FOR-A America Distribution & Service Center : 2400 N.E. Waldo Road, Gainesville, FL 32609, U.S.A.

FOR-A Corporation of Canada : 425 Queen St. W. #210, Toronto, Ontario M5V 2A5, CANADA

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

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

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

+1 212-861-2758 Fax : +1 212-861-2793

+1 352-371-1505 Fax : +1 352-378-5320

+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

