

Time Base Corrector & Frame Synchronizer

FA-115

FA-115 is a low cost Time Base Corrector / Frame Synchronizer with Noise Reducer and cable compensator, which is specifically designed for CATV, ITV and CCTV applications such as a large routing system, a remote security system using CODEC, a infrared camera system, and a data compression system etc.



- Low cost and compact (1U, half rack size) TBC/Synchronizer with noise reducer and cable compensator.
- Composite Input / Output for easy integration into current available system.
- Digital recursive motion adaptive noise reducer for improving the picture quality.
- Internal 4:2:2 Component processing and Digital Encoder/Decoder ensure high quality and stable signal output.

Applications

- Stabilize and clean the signal in the CODEC system.
- Improve picture quality by removing noise from infrared camera, etc.

Specifications

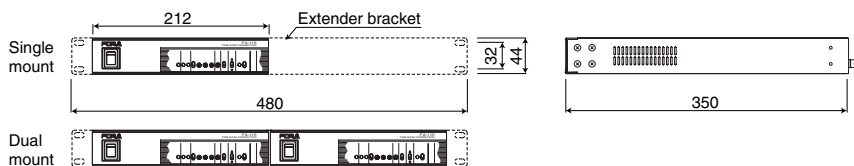
(When cable compensation function turns off)

Standard	NTSC/PAL (Auto detect)
Video Input	Analog composite, 1.0Vp-p, 75Ω, 1ea., BNC
Reference Input	BB, 0.429Vp-p (NTSC), 0.45Vp-p (PAL), 75Ω or loopthrough, 1ea., BNC
Video Output	Analog composite, 1.0Vp-p, 75Ω, 2ea., BNC
Processing	4:2:2 component
Correction	2 field (field inversion prevented), 1 field (when noise reduction function turns on)
Sampling Frequency	Y: 13.5MHz, C: 6.75MHz
Quantization	8-bit
Frequency Response	100kHz - 4.2MHz; ±0.5dB, 4.2MHz - 5.0MHz; -1.0dB - 0dB, roll off above 5.0MHz: (NTSC) 100kHz - 5.0MHz; ±0.5dB, 5.0MHz - 5.5MHz; -1.0dB - 0dB, roll off above 5.5MHz: (PAL)
S/N Ratio	56dB (no quantization noise)
K-Factor	2% (2T pulse)
H / V Tilt	1%
Residual Jitter	Y: ±15ns, C: ±2°
Cable Compensation length	0m - 250m (when RG-11/U cable)
Process Control	Video Level: -3dB - +3dB Chroma Level: -3dB - +3dB Setup Level: 0 - +15 IRE Chroma Phase: -30° - +30°
Genlock Phase Control*	H Phase: -2μsec - +2μsec
REMOTE	Freeze control, contact closer, 1ea., BNC
Temperature	10°C - 40°C
Humidity	30% - 90% (no condensation)
Power	100VAC - 240VAC ±10%, 50/60Hz
Consumption	Approx. 18VA
Dimensions	212(W) x 44 (H) x 350 (D) mm
Weight	Approx. 2.5kg
Option	Single mount or dual mount rack brackets

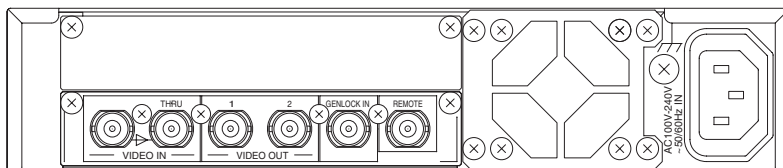
*No SC Phase control is available, with FA-115.

Required FA-125/P instead for SC Phase control, if necessary.

External Dimensions



Rear Panel



Time Base Corrector & Frame Synchronizer

UFM-115TBC



The UFM-115TBC is a Time Base Corrector / Frame Synchronizer for universal frame (UF-106). Noise reduction and cable compensation function are available.

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