

Frame Synchronizer / Time Base Corrector

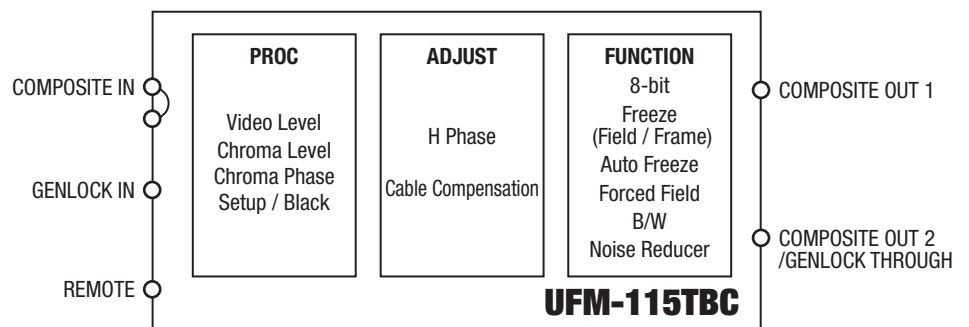
UFM-115TBC

The UFM-115TBC is a Frame Synchronizer/Time Base Corrector for Universal Frames (UF-106/112). Noise reduction and cable compensation function are available.

Features

- Analog composite 1 input 2 output.
- 4:2:2 component internal signal processing.
- NTSC/PAL automatic detection.
- Digital Encoder/Decoder ensure high quality and stable signal output.
- Full frame memory to prevent picture field inversion during processing.
- Digital recursive motion adaptive noise reducer for improving the picture quality.
- Cable compensation available.
- Process control function (video level, chroma level, setup level and chroma phase).
- Standalone type FA-115 lineup.

Block Diagram



FS
&
TBC

Analog
Composite
1 in

Analog
Composite
2 out

Noise
Reduction

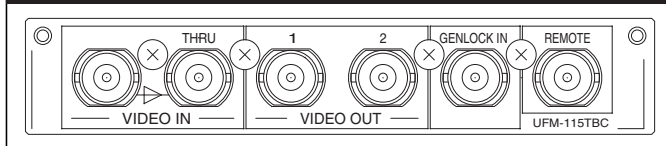
Cable
Compensator

Specifications

Standard	NTSC & PAL (Auto detect)
Signal Processing	4:2:2 component
Correction	2 field (field inversion prevented)
Sampling Frequency	Y: 13.5MHz, C: 6.75MHz
Quantization	8-bit
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
Frequency Response	100kHz - 4.2MHz: -0.5dB - +0.5dB, 4.2MHz - 5.0MHz: -1.0dB - 0dB, roll off above 5.0MHz (NTSC) 100kHz - 5.0MHz: -0.5dB - +0.5dB, 5.0MHz - 5.5MHz: -1.0dB - 0dB, roll off above 5.5MHz (PAL)
S/N Ratio	56dB (no quantization noise)
K-Factor (2T pulse)	Within 2%
H/V Tilt	Within 1%
Noise Reduction	4 step levels
Cable Compensation	0m - 250m (When 5C-2V cable)
Process Control	◆ Video Level: -3dB - +3dB ◆ Chroma Level: -3dB - +3dB ◆ Setup Level: 0 IRE - +15 IRE ◆ Chroma Phase: -30° - +30°
Genlock Phase Control*	H Phase: -2μsec - +2μsec
Interfaces	Remote: 1ea., BNC (freeze control, make contact)
Temperature / Humidity	10°C - 40°C / 30% - 90% (no condensation)
Power / Consumption	Supply from UFM Frame, +12VDC - +24VDC / Approx. 10W
Draw	+12VDC: Approx. 0.83A, +24VDC: Approx. 0.42A
Dimensions / Weight	106 (W) x 303 (D) mm (Front board), 106 (W) x 66.1 (D) mm (Rear board) / Approx. 0.5kg
Necessary Slot	1 slot
Accessories	Operation manual

*No SC Phase control is available with UFM-115TBC. UFM-125TBC/P and UFM-128TBC are required for SC Phase control, if necessary.

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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