

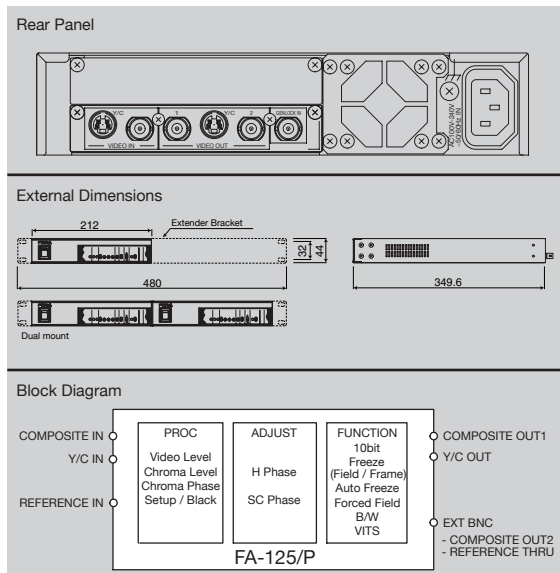
Time Base Corrector & Frame Synchronizer

FA-125/P



The FA-125/P is a low cost Time Base Corrector / Frame Synchronizer. It corrects by up to one full frame the time base error/ phase shift problems that can occur during record/playback of composite signals when using heterodyne process VTRs.

- Analog composite video input/output compatible. (Y/C is also supported.)
- Full frame memory to prevent picture field inversion during processing.
- 10-bit digital decode / encode to ensure stable signals without bit dropout.
- 4:2:2 component internal signal processing.



Specifications

Standard	FA-125: NTSC or FA-125P: PAL
Video Input	
Analog composite	1.0Vp-p, 75Ω, 1ea., BNC
Y/C	Y: 1.0Vp-p, C: 0.286Vp-p (NTSC) / 0.3Vp-p (PAL), 75Ω, 1ea., 4-pin S-connector
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
Y/C	Y: 1.0Vp-p, C: 0.286Vp-p (NTSC) / 0.3Vp-p (PAL), 75Ω, 1ea., 4-pin S-connector
Signal Processing	4:2:2 component
Correction Range	2 fields (field inversion prevented)
Sampling Frequency	Y: 13.5MHz, C: 6.75MHz
Quantization	10-bit
Frequency Response	100kHz - 4.2MHz: -0.5dB - +0.5dB, 4.2MHz - 5.0MHz: -1dB - 0dB, roll off above 5MHz (NTSC) 100kHz - 5.0MHz: -0.5dB - +0.5dB, 5.0MHz - 5.5MHz: -1dB - 0dB, roll off above 5.5MHz (PAL)
S/N Ratio	56dB (without quantization noise)
DG / DP	2% / 2°
Residual Jitter	Y: ±15ns, C: ±2°
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°
Temperature / Humidity	10°C - 40°C / 30% - 90% (no condensation)
Power	100VAC - 240VAC ±10%, 50/60Hz
Consumption	29VA (19W) at 100VAC, 37VA (20W) 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