

TBC & Frame Synchronizer

FA-395A/AP

The FA-395A/AP Time Base Corrector & Frame Synchronizer supports multi-format video input/output, as well, analog and digital audio input/output with audio level control capability.

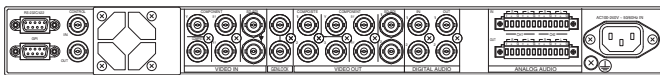


- Analog composite, analog component and digital component video input/output available.
- Analog audio and digital audio input/output available with audio level control.
- Analog and digital audio embedding/de-embedding over video signal capability.
- RS-232C / RS-422 / GPI control capability.
- Built-in recursive noise reducer.
- Built-in color bar generator.
- Available mono-color setup mode.
- Analog and digital audio level control.
- Audio delay control.

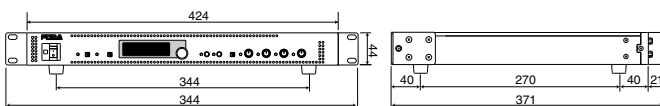
Specifications

Standard	FA-395A: 525/60 (NTSC), FA-395AP: 625/50 (PAL)
Video Input	
Analog composite	1.0Vp-p, 75Ω, 1ea., BNC
Analog component	Y: 1.0Vp-p, R-Y/B-Y: 0.7Vp-p, 75Ω, 1ea., BNC (BETACAM or M II level selectable)
Digital component	270Mbps, 75Ω, 1ea., BNC (w/ Active loopthrough)
Genlock Input	BB: 0.429Vp-p (NTSC) / 0.45Vp-p (PAL), 75Ω or loop-through, 1ea., BNC
Video Output	
Analog composite	1.0Vp-p, 75Ω, 3ea., BNC
Analog component	Y: 1.0Vp-p, R-Y/B-Y: 0.7Vp-p, 75Ω, 1ea., BNC (BETACAM or M II level selectable)
Digital component	270Mbps, 75Ω, 2ea., BNC
Internal Processing	4:2:2 component
Time Axis Correction Range	2 fields (field inversion prevented)
Sampling Frequency	Y: 3.5MHz, C: 6.75MHz
Quantization	10-bit
Frequency Characteristics	100kHz - 4.2MHz ±0.5dB, 4.2MHz - 5.0MHz - 1dB or less
DG/DP	1.5% / 1° (APL50%) (composite)
S/N Ratio	56dB (without quantization noise) (composite) 60dB (without quantization noise) (component)
K Factor (2T pulse)	1% (composite); 1% (component)
Process Control	Video Level: -3dB - +3dB / Chroma Level: -3dB - +3dB Setup Level: -15 IRE - +15 IRE / Chroma Phase: -30° - +30°
Noise Reduction	4 step levels (motion adaptive filtering performed)
Audio I/O	
Digital	AES/EBU format unbalanced, 75Ω, 2ch (audio 4-track) 1.0Vp-p, 2ea., BNC
Audio level control	Level variable range: ±20dB each for selected analog, digital input signal (4ch each, 0.1dB step)
Analog	2ch stereo, balanced or unbalanced (audio 4-track)
Input Impedance	600Ω or High impedance switch setting
Quantization	20 / 24-bit (selectable)
Sampling Frequency	48kHz
Frequency Response	20Hz - 50Hz; ±0.5dB, 50Hz - 15kHz; ±0.3dB, 15kHz - 20kHz; ±0.5dB
S/N Ratio	70dB or higher (when +24dB, 1kHz input level)
Distortion	less than 0.05% (when +24dB, 1kHz input level)
Audio level control	Input level: 0dB, +4dB, +8dB, -4dB, -10dB Output level variable range: ±10dB for digital audio level. (operate in a stereo pair, 1dB step)
Connection Terminals	Terminal block 12 poles x 2 (I/O), 3.5mm pitch between terminals
Usable wiring	AWG16 - 28
Audio Delay	4ms - 200ms ±1ms (2-ms variable steps)
Interfaces	RS-232C/422 (Selectable): 1ea., 9-pin D-sub (male) GPI: 1ea., 9-pin D-sub (female) Control: 1ea. (IN/OUT), BNC
Temperature / Humidity	10°C - 40°C / 30% - 90% (no condensation)
Power / Consumption	100VAC - 240VAC ±10%, 50/60Hz / Approx. 80VA (79W)
Dimensions / Weight	424 (W) x 44 (H) x 371 (D) mm, EIA 1RU / Approx. 7 kg
Accessories	Operation manual / AC cord / Rack mount brackets
Options	FA-350RU: Remote control unit / Panel cover / Rack bracket set

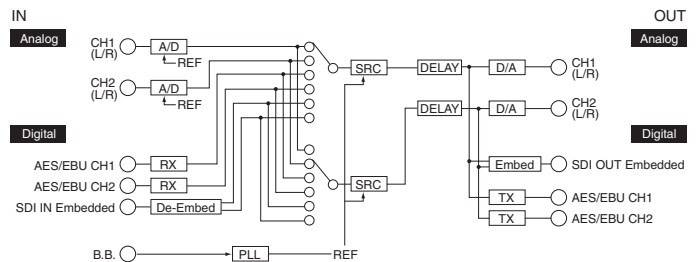
Rear Panel



External Dimensions



Audio Block Diagram



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