

FA-505 Datasheet

1. Specifications

Basic specifications

| | |
|---------------------------------------|--|
| Temperature | 0°C to 40°C |
| Humidity | 30% to 90% (no condensation) |
| Power | 100 VAC - 240 VAC \pm 10%, 50/60 Hz |
| Consumption | FA-505: 80 VA (79W) (at 100 - 120 VAC) 90 VA (77 W) (at 220 - 240 VAC) with FA-50PS: 90 VA (86 W) (at 100 - 120 VAC) 108VA (78 W) (at 220 - 240 VAC) Add the amount of power consumption of options installed: FA-10AES-BL: 4.3 VA (4.2 W) (at 100 - 120 VAC) 3.48 VA (3.8 W) (at 220 - 240 VAC) FA-10AES-UBL: 2.86 VA (3 W) (at 100 - 120 VAC) 3.12 VA (3.1 W) (at 220 - 240 VAC) FA-10GPI: 4.6 VA (4.8 W) (at 100 - 120 VAC) 4.1 VA (4.3 W) (at 220 - 240 VAC) |
| Dimensions | 430 (W) x 400 (D) x 44 (H) mm 480 (W) (Including rack mount brackets) |
| Weight | FA-505: 7.0 kg (without options) FA-10AES-BL: 0.2 kg FA-10AES-UBL: 0.2 kg FA-10AES-UBL: 0.1 kg FA-10ANA-AUD: 01 kg FA-10GPI: 0.2 kg |
| Consumables (at 24-hour operation) | (Recommended replacement timespans) Power unit (within 3 years) Cooling fan: P-1439-2 (FAN 1 - 4) (within 5 years) |

Technical specifications

| | |
|-------------------------------|--|
| Video Formats | 525/60, 625/50, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p 1080/23.98p, 1080/24p, 1080/25p, 1080/29.97p, 1080/30p 1080/23.98PsF, 1080/24PsF 1080/59.94p(Level-A/B), 1080/50p(Level-A/B), 1080/60p(Level-A) 2x1080/59.94i(Level-B), 2x1080/50i(Level-B) |
| Video Input | 3G-SDI: 3 Gbps, HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75 Ω BNC x 5 |
| Video Output | 3G-SDI: 3 Gbps, HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75 Ω BNC x 10 * Distribution output for each channel |
| Video Processing | 4:2:2 Digital Component |
| Quantization | 3G/HD/SD-SDI: 10-bit |
| Genlock Input | BB: NTSC: 0.429 Vp-p / PAL: 0.45 Vp-p; or Tri-level Sync: 0.6 Vp-p, 75 Ω BNC x 1, loop-through (Terminate with 75 Ω terminator, if unused.) |
| Synchronizer mode | Frame Sync mode, LineSync mode, AVDL mode, and Line (Minimum) mode |
| Video Delay | Maximum 8 frames (Frame Sync) |
| Video Processing Functions | Proc Amp Color Corrector |

| | |
|-------------------------------|--|
| Process Amp | Video level: 0.0% to 200.0% Chroma level: 0.0% to 200.0% Black level: -20.0% to 100.0% HUE: -179.8° to +180° |
| Video Clip | YPbPr mode RGB mode |
| Color Correction | Balance mode Differential mode Sepia mode |
| Audio Input | |
| Embedded Audio | 3G/HD: 16 channels (Group 1 to 4), 48 kHz, 16 to 24-bit, synchronous/asynchronous, (Link A-embedded audio only in 3G Level B) SD: 16 channels (Group 1 to 4), 48 kHz, 16 to 24-bit, synchronous only |
| FA-10AES-BL Option (AES/EBU) | Balanced, 0.2-7 Vp-p, 110Ω, 25-pin D-Sub (female) x 1, input/output, 4 pairs of stereo channels, 32/44.1/48 kHz, 16-bit to 24-bit |
| FA-10AES-UBL Option (AES/EBU) | Unbalanced, 1.0 Vp-p, 75Ω, BNC x 4, input/output, Maximum 4 pairs of stereo channels, 32/44.1/48 kHz, 16-bit to 24-bit |
| FA-10ANA-AUD Option (Analog) | <Line input> 4 channels (2 pairs of stereo channels) balanced/unbalanced 25-pin D-Sub (female) x 1 (Shared with analog audio output) 600 ohm/high impedance, 48 kHz, 24-bit Input level: -10 dBu to +8 dBu <Mic input> 2 channels (1 pair of stereo channels) balanced/unbalanced (Shared with the analog audio input CH1/2 connector) 600 ohm/high impedance, 48 kHz, 24-bit Input level: -55 dBu to -30 dBu |
| Audio Output | |
| Embedded Audio | 3G/HD: 16 channels (Group 1 to 4), 48 kHz, 16/20/24-bit, synchronous/asynchronous, (Link A-embedded audio only in 3G Level B) SD: 12 channels (Group 1 to 3), 48 kHz, 16/20/24-bit, synchronous only |
| FA-10AES-BL Option (AES/EBU) | Balanced, 3.3 Vp-p, 110Ω, 25-pin D-Sub (female) x 1, input/output, 4 pairs of stereo channels, 48 kHz, 16/20/24-bit |
| FA-10AES-UBL Option (AES/EBU) | Unbalanced, 1.0 Vp-p, 75Ω, BNC x 4, (The FA-10AES-UBL functions as an input card when used with the FA-10AES-UBL.) 4 pairs of stereo channels, 48 kHz, 16/20/24-bit |
| FA-10ANA-AUD Option (Analog) | 4 channels (2 pairs of stereo channels) balanced/unbalanced 25-pin D-Sub (female) x 1 (Shared with analog audio input) 100 ohm or lower, 48 kHz, 24-bit Output level: -10 dBu to +8 dBu |
| Audio Delay | 5 - 1,000 ms (adjustable in 1 ms steps) |
| Audio Processing Functions | Sampling rate converter (SRC) Gain control Down mix Channel re-mapping Channel mute |
| Interface | |
| Ethernet | 100 Base-TX / 1000 Base-T, RJ-45 x 1 |
| FA-10GPI Option | 25-pin D-sub (female) |

Options

| | |
|---------------|---|
| FA-10AES-BL | Digital audio (balanced) I/O card |
| FA-10AES-UBL | Digital audio (unbalanced) I/O card |
| FA-10AES-UBLC | Digital audio (unbalanced) Output expansion cable * Requires FA-10AES-UBL option. * The FA-10AES-UBL functions as an input card when used with the FA-10AES-UBLC. |
| FA-10ANA-AUD | Analog audio I/O expansion cable |
| FA-10GPI | External I/O control card |
| FA-50PS | Redundant power supply unit (Including AC cord and AC cord retaining clip) |
| FA-10RU | Remote control unit |
| FA-AUX30 | GPI control unit |
| FA-10DCCRU | Color Corrector Remote Control Unit |

Accessories

AC cord, EIA rack mount brackets, CD-ROM and Quick setup guide

2. External Dimensions

(All dimensions in mm.)

