

Specifications — System 8 Plus Switcher

Video

| | |
|--------------------------------|--------------------------------|
| Gain | 0 dB, unity |
| Bandwidth | 300 MHz (-3 dB) |
| Differential phase error | 0.01° at 3.58 MHz and 4.43 MHz |
| Differential gain error | 0.01% at 3.58 MHz and 4.43 MHz |
| Crosstalk | -35 dB @ 10 MHz (typical) |
| Isolation | -55 dB @ 10 MHz (typical) |

Video input

| | |
|------------------------------|--|
| Number/signal type | 8 or 10 RGBHV, RGBS, RGsB, S-video, or NTSC/PAL composite video |
| Connectors | (8 or 10) x 5 BNC female |
| Nominal level | 1 Vp-p for Y of S-video and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for C of S-video |
| Minimum/maximum levels | Analog: 0.3 V to 2 Vp-p TTL: up to 5 Vp-p |
| Impedance | 75 ohms (deselected inputs) |
| Horizontal frequency | 15 kHz to 150 kHz |
| Vertical frequency | 30 Hz to 150 Hz |
| Return loss | <-25 dB @ 10 MHz |

Video output

| | |
|------------------------------|--|
| Number/signal type | 1 RGBHV, RGBS, RGsB, or 1 S-video (NTSC/PAL), or 1 composite video (NTSC/PAL) |
| Connectors | 5 BNC female (RGBHV/RGBS/RGsB) 2 BNC female (S-video) 1 BNC female (composite video) |
| Nominal level | 1 Vp-p for Y of S-video and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for C of S-video |
| Minimum/maximum levels | 0.3 V to 2.0 Vp-p |
| Impedance | 75 ohms |
| Return loss | -30 dB @ 5 MHz |
| DC offset | None |
| Switching type | Triple-Action™; 0 s to 7.5 s, adjustable |

Sync

| | |
|-------------------------|--------------------------------------|
| Input type | RGBHV, RGBS, RGsB |
| Output type | RGBHV, RGBS, RGsB |
| Standards | NTSC and PAL |
| Input level | 0.5 V to 5 Vp-p |
| Output level | 0.5 V to 5 Vp-p, unterminated |
| Input impedance | 510 ohms (deselected inputs) |
| Output impedance | 75 ohms |
| Max input voltage | 5 Vp-p |
| Input sensitivity | 5 Vp-p |
| Polarity | Positive or negative (follows input) |

Audio

| | |
|--------------------------|---|
| Gain | Unbalanced output: 0 dB; balanced output: +6 dB |
| Frequency response | 20 Hz to 20 kHz, ±0.05 dB |
| THD + Noise | 0.015% @ 20 Hz to 20 kHz, worst case |
| S/N | >95 dB at maximum output |

| | |
|---------------------------------|---|
| Crosstalk | <-85 dB @ 20 Hz to 20 kHz, fully loaded |
| Stereo channel separation | >60 dB @ 20 Hz to 20 kHz |
| CMRR | >60 dB @ 60 kHz |

Audio input

| | |
|--------------------------|--|
| Number/signal type | System 8 PLUS: 8 stereo, balanced/unbalanced System 10 PLUS: 10 stereo, balanced/unbalanced |
| Connectors | (8 or 10) 5 mm captive screw connectors, 6 conductor |
| Impedance | >10k ohms unbalanced, 20k ohms balanced, AC coupled |
| Nominal level | -20 dBV (100 mV), -10 dBV (316 mV), 0 dBu (0.775 V), or +4 dBu (1.23 V), configurable |

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu
+4 dBu and 0 dBu are professional audio line level standards.
-10 dBV and -20 dBV are semiprofessional, computer audio, and consumer audio standards.

| | |
|-----------------------------|--|
| Maximum level | +13.2 dBu, (balanced or unbalanced) at 1%THD+N |
| Input gain adjustment | -95 dB to 0 dB, adjustable per input |

Audio output

| | |
|-------------------------------|--|
| Number/signal type | 1 stereo, balanced/unbalanced |
| Connectors | (1) 5 mm captive screw connector, 6 pole 2 BNC female |
| Impedance | 50 ohms unbalanced, 100 ohms balanced |
| Gain error | ±0.2 dB channel to channel |
| Maximum level (Hi-Z) | > +19.2 dBu, balanced or unbalanced at 1%THD+N |
| Maximum level (600 ohm) | > +19.2 dBm, balanced or unbalanced at 1%THD+N |

Control/remote — switcher

| | |
|---------------------------------------|---|
| Serial control port | RS-232, 9-pin female D connector |
| Baud rate and protocol | 9600 baud, 8 data bits, 1 stop bit, no parity |
| Serial control pin configurations ... | 2 = TX, 3 = RX, 5 = GND |
| Remote key pad control | (1) 25-pin D female |
| IR controller module | IR-201 (optional), part #70-142-01; or IR-301 (optional), part #70-143-01 |
| Program control | Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) |

Control — projector

| | |
|------------------------------|----------------------|
| Projector control port | (1) 15-pin HD female |
|------------------------------|----------------------|

General

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|----------------------------------|---|
| Power | 90 VAC to 260 VAC, 50/60 Hz, 10 watts, internal, autoswitchable |
| Temperature/humidity | Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing |
| Rack mount | Yes, with attached rack ears |
| Enclosure type | Metal |
| Enclosure dimensions | 5.25" H x 17.5" W x 9.6" D (3U high, full rack wide) 13.3 cm H x 44.4 cm W x 24.4 cm D (Depth excludes connectors. Width excludes rack ears.) |
| Product weight | 12.7 lbs (5.8 kg) |
| Shipping weight | 19 lbs (9 kg) |
| DIM weight (International) | 25 lbs. (12 kg) |
| Vibration | ISTA 1A in carton (International Safe Transit Association) |
| Listings | UL, CUL |

Specifications — System 8 Plus Switcher (continued)

| | |
|-------------------|-------------------------|
| Compliances | CE |
| MTBF | 30,000 hours |
| Warranty | 3 years parts and labor |

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

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