

ISS 506

SIX INPUT SEAMLESS SWITCHER

- Seamless switching between video, HDTV, and RGB input sources
- Four fully configurable inputs accept
 - RGBHV, RGBS, RGsB
 - HDTV component video
 - S-video & composite video
- Optional SDI/HD-SDI input
- Program and Preview outputs
- Optional DVI-D, HD-SDI, or scan-converted video output
- Seamless transition effects
- Logo insertion with Dynamic Image Capture
- Title keying
- Picture-in-picture
- Audio switching

Presentation Enhancing
Truly Seamless Switcher



Extron® Electronics
www.extron.com

Specifications

VIDEO INPUT

Number/signal type.....	4 RGBHV, RGBS, RGsB, component video (interlaced or progressive), S-video, composite video 1 component video (interlaced), S-video, composite video 1 S-video, composite video, or optional digital component video (SDI or HD-SDI)
Connectors	4 x 5 female BNC 1 x 3 female BNC, 1 female 4-pin mini DIN 1 optional BNC for SDI/HD-SDI
Nominal level.....	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for R-Y and B-Y of component video, and for C of S-video
Minimum/maximum levels.....	Analog: 0.0 V to 2.0 Vp-p with no offset at unity gain
Impedance	75 ohms
Horizontal frequency	Autoscan 15 kHz to 100 kHz
Vertical frequency	Autoscan 50 Hz to 120 Hz
Resolution range.....	Autoscan 640x480 to 1600x1200
Return loss	-30 dB @ 5 MHz
DC offset (max. allowable)	0.5 V

VIDEO PROCESSING

Encoder (scan converted output).....	10 bit digital
Digital sampling (program and preview outputs) ..	24 bit, 8 bits per color; 162 MHz standard
Colors (program and preview outputs).....	16.78 million
Horizontal filtering (scan converted output)	3 levels
Vertical filtering (scan converted output).....	3 levels
Encoder filtering (scan converted output).....	3 levels

VIDEO OUTPUT

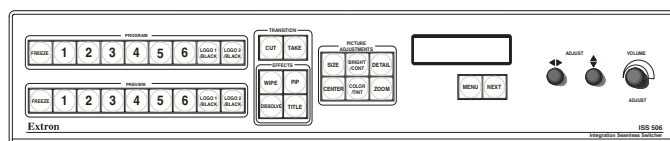
Number/signal type.....	2 scaled RGBHV, RGBS, RGsB, HD YUV component video program outputs
Impedance	75 ohms
Scaled resolution	640x480 ^{1,2,3,4,5,6} , 800x600 ^{1,2,3,4,5,6} , 852x480 ^{1,2,3,4,5} , 1024x768 ^{1,2,3,4} , 1024x852 ^{1,2,3,4} , 1024x1024 ^{1,2,3} , 1280x768 ^{1,2,3,4} , 1280x1024 ^{1,2,3} , 1360x765 ^{1,2,3} , 1365x768 ^{1,2,3} , 1365x1024 ^{1,2} , 1366x768 ^{1,2,3} , 1400x1050 ^{1,2} , 1600x1200 ^{1,2} , HDTV 480p ² , 576p ^{1,5} , 720p ^{1,2} , 1080p ^{1,2} , and 1080i ^{1,2} ¹ = at 50 Hz ² = at 60 Hz ³ = at 72 Hz ⁴ = 96 Hz ⁵ = 100 Hz, ⁶ = 120 Hz
DC offset	±25 mV with input at 0 offset (except for RGsB and component video)

SYNC

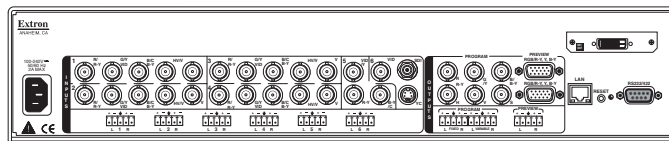
Input type	Autodetect RGBHV, RGBS, RGsB
Output type	RGBHV, RGBS, RGsB Tri-level on Y, R-Y, B-Y channels of component video or bi-level on Y channel of component video (selectable)
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM Optional SDI/HD-SDI input: SMPTE 259M-C, SMPTE 292M
Input level	0.0 V to 5.0 Vp-p 0.0 V to 0.6 Vp-p for component video with tri-level sync
Output level	TTL: 5.0 V p-p, unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Polarity.....	Positive or negative (selectable)

AUDIO

Gain.....	Unbalanced output: -6 dB; balanced output: 0 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB



ISS 506 Series - Front



ISS 506 DI/DVI - Back

THD + Noise	0.05% @ 1 kHz at +4 dBu and 0 dB gain
S/N	>83 dB (typical) at maximum output (unweighted)
Crosstalk	<-80 dB @ 1 kHz, fully loaded
Stereo channel separation	>90 dB @ 1 kHz
CMRR	>75 dB @ 1 kHz

AUDIO OUTPUT

Number/signal type	3 stereo, balanced/unbalanced (2 program, 1 preview)
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.5 dB channel to channel
Maximum level (Hi-Z)	>+21 dBu, balanced or unbalanced at 1% THD+N
Maximum level (600 ohm)	>+15 dBm, balanced or unbalanced at 1% THD+N

CONTROL/REMOTE – SWITCHER

Serial control ports	1 RS-232/RS-422: 1 rear panel 9-pin female D connector 1 RS-232: 1 front panel 2.5 mm mini stereo jack
Baud rate and protocol.....	9600 (default), 19200, 38400, 115200 baud; 8 data bits; 1 stop bit; no parity
Ethernet data rate.....	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, DHCP, ICMP (ping), TCP/IP, UDP/IP, Telnet, HTTP, SMTP
Web server.....	Up to 200 simultaneous sessions 16 MB nonvolatile user memory
Program control.....	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) Microsoft® Internet Explorer ver. 6 or higher, Netscape® Navigator®, Telnet

GENERAL

Power	100 VAC to 240 VAC, 50/60 Hz, 45 watts, internal, autoswitchable
Rack mount.....	Yes, with included brackets
Enclosure type	Metal
Enclosure dimensions	3.5" H x 17.5" W x 12.0" D (2U high, full rack wide) 8.9 cm H x 44.4 cm W x 30.5 cm D (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight	8.5 lbs (3.9 kg)
Shipping weight	18 lbs (9 kg)
DIM weight	USA/Canada/International..... 15 lbs (7 kg) / 18 lbs (8 kg)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES

NOTE: All nominal levels are at ±10%.

Model	Version Description	Part Number
ISS 506	Standard Version	60-742-01
ISS 506 SC	Scan Converted Output.....	60-742-03
ISS 506 DI/DVI	SDI/HD-SDI Input, DVI-D Output.....	60-742-12
ISS 506 DI/SC	SDI/HD-SDI Input, Scan Converted Output	60-742-13
ISS 506 DI/HD-SDI	SDI/HD-SDI Input and HD-SDI Output.....	60-742-14

Specifications are subject to change without notice.



Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
800.633.9876 714.491.1500
FAX 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort, The Netherlands
+800.3987.6673 +31.33.453.4040
FAX +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Rd. #04-01
PM Industrial Bldg., Singapore 368363
+800.7339.8766 +65.6383.4400
FAX +65.6383.4664

Extron Electronics, Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan
+81.3.3511.7655 FAX +81.3.3511.7656