

# Specifications

## IN1508

### Video input

Number/signal type .....	2 composite video 2 S-video 1 component video (interlaced, progressive, or HDTV) 2 RGBHV, RGBS, RGsB 1 DVI-D digital video (single link)
Connectors .....	2 female BNC (composite video) 2 female 4-pin mini DIN (S-video) 3 female BNC (component video) 2 female 15-pin HD (RGB) 1 DVI female (DVI-I)
Nominal level .....	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0 V to 1.0 Vp-p with no offset
Impedance .....	75 ohms
Horizontal frequency .....	24 kHz to 100 kHz
Vertical frequency.....	50 Hz to 120 Hz
Resolution range .....	640 x 480 to 1920 x 1200, 480p, 576p, 720p, 1080i, and 1080p
Return loss .....	<-27 dB @ 5 MHz
DC offset (max. allowable) .....	0.5 V

### Video processing

Encoder.....	9 bit digital
Decoder .....	10 bit digital
Digital sampling .....	24 bit, 8 bits per color; 13.5 MHz standard (video), 194 MHz standard (RGB)
Colors .....	16.78 million

### Video output

Number/signal type .....	Scaled RGBHV, RGBS, RGsB; Y, R-Y, B-Y
Connectors .....	1 female 15-pin HD
Nominal level .....	1 Vp-p for Y of component video and for G of RGsB 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	0 V to 1.0 Vp-p
Impedance .....	75 ohms
Vertical frequency.....	24 Hz, 50 Hz, 59.94 Hz, 60 Hz, or 75 Hz, depending on selected output resolution
Scaled resolution .....	640x480 <sup>1,2,3</sup> , 800x600 <sup>1,2,3</sup> , 852x480 <sup>1,2</sup> , 1024x768 <sup>1,2,3</sup> , 1024x852 <sup>1,2,3</sup> , 1024x1024 <sup>1,2,3</sup> , 1280x768 <sup>2</sup> , 1280x800 <sup>1,2</sup> , 1280x1024 <sup>1,2,3</sup> , 1366x768 <sup>1,2,3</sup> , 1365x1024 <sup>1,2,3</sup> , 1400x1050 <sup>1,2</sup> , 1440x900 <sup>2,3</sup> , 1600x1200 <sup>1,2</sup> , 1680x1050 <sup>2</sup> , 480p <sup>2,4</sup> , 576p <sup>1</sup> , 720p <sup>1,2,4</sup> , 1080i <sup>1,2,4</sup> , 1080p <sup>1,2,3,4</sup> , 1080p Sharp <sup>2</sup> , 1920x1200 <sup>2</sup> , 1080p CVT <sup>2</sup> <sup>1</sup> = at 50 Hz, <sup>2</sup> = at 60 Hz, <sup>3</sup> = at 75 Hz (24 Hz for 1080p); <sup>4</sup> = 59.94 Hz
Return loss .....	-21 dB @ 5 MHz
DC offset .....	±300 mV maximum with input at 0 offset

## Sync

Input type .....	RGBHV, RGBS, RGsB, bi-level or tri-level component video
Output type .....	RGBHV, RGBS, RGsB; Y, R-Y, B-Y (tri-level)
Standards .....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level .....	2.75 V to 5.0 Vp-p for RGBHV or RGBS 0.6 Vp-p for component video tri-level sync 0.3 Vp-p for component video bi-level sync or RGsB
Output level .....	TTL: 5.0 Vp-p, unterminated
Input impedance .....	1k ohms
Output impedance .....	45 ohms
Max. input voltage .....	5V p-p
Polarity .....	Positive or negative (selectable)

## Audio

Gain .....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response .....	20 Hz to 20 kHz, $\pm 1.7$ dB
THD + Noise .....	0.03% @ 1 kHz at nominal level, 0 dB gain
S/N .....	>90 dB at rated maximum output
Crosstalk .....	<-70 dB @ 1 kHz
Stereo channel separation .....	>84 dB @ 1 kHz

## Audio input

Number/signal type .....	8 stereo, unbalanced
Connectors .....	5 pairs of RCA (tip-ring) jacks (3) 3.5 mm mini stereo (tip-ring-sleeve) jacks
Impedance .....	>10k ohms unbalanced, DC coupled
Nominal level .....	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level .....	+10.4 dBu, (unbalanced) at 1% THD+N
Input gain adjustment .....	-65 dBu to +9 dBu, adjustable per input

**NOTE:** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV  $\approx$  2 dBu

## Audio output

Number/signal type .....	1 stereo, unbalanced 1 stereo, balanced/unbalanced
Connectors .....	1 pair of RCA (tip-ring) jacks (1) 3.5 mm captive screw connector, 5 pole
Impedance .....	50 ohms unbalanced, 100 ohms balanced
Gain error .....	$\pm 0.1$ dB channel to channel
Maximum level (Hi-Z) .....	>+16 dBu, balanced at 1% THD+N >+10 dBu, unbalanced at 1% THD+N
Maximum level (600 ohm) .....	>+10 dBu, balanced at 1% THD+N >+7 dBu, unbalanced at 1% THD+N

## Control/remote — decoder/scaler

Serial control port .....	RS-232, female 9-pin 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
IR controller module .....	IR 903 Remote Control
Program control .....	Extron Simple Instruction Set (SIS™)

## General

Power .....	100 VAC to 240 VAC, 50-60 Hz, 30 watts, internal
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
Cooling .....	Convection, sides to top
Mounting	
Rack mount .....	Yes, with included brackets
Enclosure type .....	Metal
Enclosure dimensions .....	1.75" H x 17.5" W x 8.5" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 21.6 cm D) (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight.....	3.9 lbs (1.8 kg)
Shipping weight.....	8 lbs (4 kg)
DIM weight	
USA/Canada .....	10 lbs (5 kg)
International .....	11 lbs (5 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety .....	CE, c-UL, UL
EMI/EMC .....	CE, C-tick, FCC Class A, ICES, VCCI
Warranty .....	3 years parts and labor

**NOTE:** All nominal levels are at  $\pm 10\%$ .

**NOTE:** Specifications are subject to change without notice.

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