

Specifications — IN1401 Scaler

Video input

Number/signal type	1 VGA-XGA RGBHV, RGBS, RGsB
Connectors	5 female BNC
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels	Analog: 0 V to 1.0 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	24 kHz to 60 kHz
Vertical frequency	50 Hz to 120 Hz
Resolution range	640 x 480 to 1024 x 768
Return loss	<-30 dB @ 5 MHz
DC offset (max. allowable)	1.5 V

Video processing

Digital sampling	8 bit, 24 bits per color; 13.5 MHz standard
Colors	16.78 million

Video output

Number/signal type	1 scaled RGBHV
Connectors	1 female 15-pin HD
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels	0 V to 0.7 Vp-p
Impedance	75 ohms
Scaled resolution	640x480 ^{2,4,5,6,7,8,9} , 800x600 ^{2,4,5,6,7,8,9} , 852x480 ^{2,4,5,6,7,8,9} , 1024x768 ^{2,4,5,6,7,8} , 1152x864 ^{2,4,5,6} , 1280x720 ^{2,4,5,6,7,8} (HDTV 720p), 1280x768 ^{1,2,3} , 1280x1024 ^{2,4,5} , 1365x768 ^{2,4,5,6} , 1365x1024 ² ¹ = at 56 Hz ² = at 60 Hz ³ = at 65 Hz ⁴ = at 72 Hz ⁵ = 75 Hz ⁶ = 85 Hz ⁷ = 96 Hz ⁸ = at 100 Hz ⁹ = at 120 Hz

Sync

Input type	RGBHV, RGBS, RGsB
Output type	RGBHV
Input level	0 V to 5.0 Vp-p
Output level	0 V to 5.0 Vp-p, unterminated
Input impedance	75 ohms
Output impedance	75 ohms
Polarity	Positive or negative (switch-selectable)

Control/remote — scaler

Serial control port	RS-232, female 3-pole captive screw connector
Baud rate and protocol	1200-57600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	1 = TX, 2 = GND, 3 =RX
Program control	Inline Control Software – ICS100

General

Power	100 VAC to 240 VAC, 50/60 Hz, 15 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 optional rack shelf
Enclosure type	Metal
Enclosure dimensions	1.7" H x 8.5" W x 7.3" D (1U high, half rack wide) 4.3 cm H x 7.3 cm W x 18.5 cm D (Depth excludes connectors.)
Product weight	2.0 lbs (0.9 kg)
Shipping weight	4 lbs (2 kg)

Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	ETL (UL1950)
Compliances	CE
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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