# IN1401 RGB Video Scaler

(Uses Inline RS-232 Control Protocol; Available in Black Only)



#### **DESCRIPTION**

The Inline IN1401 is an advanced RGB video scaler from Extron that accepts RGB signals at scan rates from 15 to 60 KHz and resolutions up to 1024 x 768 and uses advanced digital video scaling technology to upconvert the signals to standard resolutions and refresh rates. The IN1401 is an upconverter only — it cannot downscale to lower resolutions. The IN1401 can act as a bridge between the installed base of proprietary process control systems and modern data displays. Because the unit accepts a wide range of standard and non-standard analog video signals, and converts them to standard resolutions and refresh rates, it allows obsolete, long-persistence phosphor monitors to be replaced with standard monitors and flat panel displays. The IN1401 also provides enhanced ergonomics by converting 50 Hz and 60 Hz input signals to higher, flicker-free refresh rates.

The IN1401 offers a wide range of output resolutions to match the optimum or native resolution of virtually any display device. Output refresh rates of 60 Hz to 120 Hz are also selectable. When used with LCD and DLP™ displays, the 60 Hz output setting is recommended. A progressive scan RGBHV output signal is available at standard VGA resolutions, ensuring exceptional image quality with a wide range of CRT, LCD, DLP™, D-ILA®, LCoS, and plasma display devices. The output resolution can also be set for HDTV 720p.

On-screen menus provide easy control for input and output signal adjustments as well as advanced settings. System Info is a menu option that uses the onscreen display to show information about the input and output signals.

The Blue Screen feature provides a full screen blue image for set up and testing purposes. The blue screen output signal (activated via on-screen menu) is always available, even when the input signal is missing or the input settings are incorrectly adjusted. Blue screen is ideal for setting up the output resolution, refresh rate and position settings, and to verify connection to the output display device.

#### **FEATURES**

- Input and output Five BNCs are available for RGsB, RGBS, or RGBHV input, while a female 15-pin HD connector is available for RGBHV output.
- Accepts standard and non-standard video input signals.
- **Upconverts signals** to desired resolutions and refresh rates (no downscaling).
- **Scaled output rates** Resolutions from 640 x 480 up to 1365 x 1024 allow the IN1401 to match the optimal or native resolution of virtually any display.
- **Picture controls** The IN1401 includes a comprehensive selection of video adjustments including brightness, contrast, horizontal and vertical sizing,

horizontal and vertical centering, and individual red, green, and blue gain.

- **RS-232 control** A rear panel, RS-232 control port provides connection of the IN1401 to a third-party control system.
- Rack-mountable The IN1401 is housed in a 1U, half rack width metal enclosure.
- Internal international power supply

**MODEL** PART # IN1401 60-728-01 IN1401 with RS-232 60-728-02

### **OPTIONAL ACCESSORIES**

SVHS 6' (1.83 m) S-video cable ......26-316-02 (page 524)

#### **SPECIFICATIONS**

SPECIFICATIONS	
VIDEO INPUT  Number/signal type  Connectors  Nominal level	5 female BNC 0.7 Vp-p for RGB Analog: 0V to 1.0 Vp-p with no offset 75 ohms 15 kHz to 60 kHz 50 Hz to 120 Hz
VIDEO PROCESSING Digital sampling Colors	
	1 female 15-pin HD 0.7 Vp-p for RGB 0V to 0.7V Vp-p
SYNC Input type Output type Input level Output level Input level Input impedance Output impedance Max input voltage Polarity	RGBHV 0V to 5.0 Vp-p 0V to 5.0 Vp-p, unterminated 75 ohms 75 ohms 5.0 Vp-p
CONTROL/REMOTE Serial control port Program control	RS-232, female 3-pole captive screw connector ICS100 (Inline Control Software)
Rack mount	100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional rack shelf Metal 1.7" H x 8.5" W x 7.3" D (1U high, half rack width) 4.3 cm H x 7.3 cm W x 18.5 cm D (Depth excludes connectors.)
Product weight Shipping weight Listings/Compliances Warranty	2.0 lbs (0.9 kg) 4 lbs (2 kg) ETL (UL1950), CE

# IN1401 (continued)...

## **APPLICATION**



