

IN1700

Computer to Video Scan Converter with Genlock, Component Video Output and RS-232 Control



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FEATURES

- Converts VGA, MAC, SUN, SGI and Other High Resolution Workstation Video Signals to Composite Video, S-Video, Component Video, RGBS / RGBHV
- Wide Compatibility - Supports Input Signal Resolutions up to 1280x1024
- Advanced Flicker / Sharpness Controls
- Genlock with H. Phase and SC Phase Adjustments
- Horizontal and Vertical Position Controls
- Overscan / Underscan
- 2X Zoom and Pan
- Freeze Frame
- 24 Bit Image Sampling and Processing
- 10 Bit Output Encoder
- RS-232 Serial Control of All Functions
- NTSC / PAL Output

The **IN1700** is a computer to video scan converter that accepts high resolution computer video signals at resolutions up to 1280 x 1024 and converts them to NTSC or PAL. Featuring a variety of output signal formats, flexible control options and exceptional output image quality, the **IN1700** is an excellent choice for presentation facilities, multi-media and video production suites, teleconferencing, and other applications requiring a high performance scan converter.

Flexible Input Signal Compatibility - Offering scan conversion capability for computer video signals at resolutions up to 1280 x 1024, the **IN1700** is compatible with RGBHV, RGBS and RGSB computer video signals at horizontal scan rates up to 82 KHz and refresh rates up to 120 Hz. The **IN1700** offers fully automatic operation, recognizing a wide variety of input signals and then automatically sizing and centering the output image. The **IN1700** connects directly to VGA, MAC, and SGI computers and local monitors featuring 15-Pin HD or 15-Pin D video connectors using the **IN9140M** reversible input adapter cable provided with the unit. The **IN1700** may also be connected to SUN, SGI and other high resolution workstations featuring 13W3 video connectors or BNC video connectors by using optional input and local monitor output adapter cables (see list on reverse).

Variety of Video Outputs - The **IN1700** local monitor output provides a loop-through signal (not scan converted) for a local computer monitor. The composite video output is always active, while users can select a second scan converted output in any of the following formats: S-Video, Component Video, RGBS or RGBHV. The unit can be set for NTSC or PAL output as required.

Advanced Flicker / Sharpness Control - One of the keys to the **IN1700** scan converter's superb output image quality is an advanced flicker / sharpness filter that offers a remarkably flicker free video image with exceptional image detail. By providing separate adjustments for horizontal and vertical filtering, the flicker / sharpness control lets users optimize the output image quality for various signal resolutions and different types of on-screen image content.

Comprehensive Image Controls - Horizontal and Vertical Position Controls and an **Underscan / Overscan Control** make it easy to center and size the output video image to accommodate different display devices. The **Zoom** function offers 2X image magnification that lets presenters emphasize one part of the screen or enhance the visibility of extremely fine details. **Horizontal and Vertical Pan** controls allow the image to be smoothly shifted to display different parts of the screen while in the Zoom mode.

SPECIFICATIONS

INPUT:

Computer Video Input: VGA / MAC: (1) 15-Pin D female (Use with IN9140M)
MAC: (1) 15-Pin HD female (Use with IN9140M)
Input Signal Format: RGBHV / RGBS / RGSB
Compatible Resolutions: 512 x 384 to 1280 x 1024
Horizontal Scan Rate: 24 KHz to 82 KHz
Vertical Refresh Rate: 50 Hz to 120 Hz
Genlock In / Out: (2) BNC female

OUTPUT:

Local Monitor: VGA / MAC G3 & G4: 15-Pin HD female
MAC: 15-Pin D female
Video Output Standards: NTSC / PAL (selectable)
Composite Video: (1) BNC female
S-Video: (1) 4-pin female Mini-DIN for Y/C
Component/RGBS/RGBHV: (5) BNC female

GENERAL:

Accessories Included: **IN9140M** VGA / MAC Reversible Input Cable, 6' long
IN8606 S-Video Output Cable, 6' long
Power Supply: Internal Switch Mode: 90-260 VAC; 47-63 Hz
Power Consumption: 12 Watts
Shipping Weight: 6 lbs. / 3 kg Product Weight: 3.5 lbs. / 1.6 kg
Dimensions: 1.75" x 11.75" x 8.1" / 4.4cm x 29.8cm x 20.6cm
Regulatory Approvals: UL1950, CAN/CSA-22.2 No.950, Third Edition
CE: EN55022 (1987), EN50081-1 (1991), EN50082-1 (1992 and 1994), EN60950-92

Easy Operation - The **IN1700** offers a clean, organized control panel with very intuitive operation. An informative LCD display shows the horizontal and vertical scan rates of the current input signal as also indicates the adjustment range and current position of the image shift, zoom, pan, underscan / overscan and flicker / sharpness controls. Menus are provided to set advanced parameters such as NTSC / PAL output, S-Video / Component Video / RGBS / RGBHV output selection, genlock adjustment and RS-232 serial control options.

RS-232 Serial Control - All scan converter functions and adjustments can be controlled via the RS-232 serial port. Serial control capability marks the **IN1700** as an excellent choice for integration into sophisticated A/V installations where system operations will be automated and controlled using a third party control system. The **IN1700** can be rack mounted in a 1U space using the optional **IN9129B** rack ears.

Component Video Output and Genlock Capability - Since the **IN1700** offers component video output and genlock capability, it is ideal for high end staging applications, video production, broadcast installations and other applications requiring several synchronous component video sources to be genlocked and switched cleanly along with scan converted signals. Genlock adjustments are provided for H. Phase and SC Phase.

ACCESSORIES FOR IN1700

Input / Output Adapter and Extension Cables

		VGA/MAC/SGI (15-Pin HD)	MAC (15-Pin D)	SUN (13W3)	SGI (13W3)	RGBHV (5-BNC)
Input Cables	6' Long	IN9140M*	IN9140M*	IN9190	IN9192	IN9045-L6
Local Monitor Out	3' Long	N/A	N/A	IN9191	IN9193	IN9194

*IN9140M is included with IN1700

Output Cables

Composite Video (BNC)	IN7200-1 Series
S-Video (4-Pin Mini DIN)	IN8600 Series
RGBHV (5-BNC)	IN7000-5 Series or IN7000FP (Plenum)

All cable grades are available in a variety of lengths pre-terminated with high quality connectors or as bulk cable.

Miscellaneous Accessories

IN9129B Rack Ears - Mounts **IN1700** in 1U Rack Space

