

UP-CONVERT OR DOWN-CONVERT



Introducing The UDC™ 100

Autosyncs to all computers

Selectable output signal

Pan and zoom

RS-232 control

Simple external connections

Convert bi-directionally between 875 line FLIR and 525 line video

Convert a 1280 x 1024 input to fill a 1024 x 768 LCD panel

Convert an interlaced signal to non-interlaced or vice versa

Line double an RS-343 signal

Extract a partial image from a raster

Convert a computer signal to simulate a FLIR

Change aspect ratio

Freeze frame

The UDC 100 is a general purpose, real-time scan converter for up-converting or down-converting RGB signals. The unit accepts RGB inputs up to 1280 x 1024 pixels and converts them to any other RGB format. The UDC 100 lets you change the characteristics of a signal to match the requirement for any application. For example, you can convert a 1280 x 1024 signal for an LCD display capable of handling only 1024 x 768. All output signal parameters are user selectable including line rate, frame rate, interlacing and blanking.

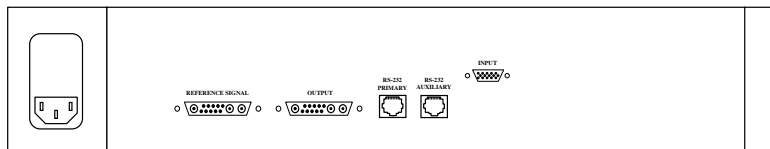
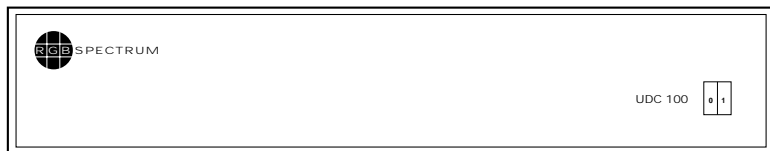
The UDC 100 will accept and convert any signal from 15 to 90 kHz horizontal scan rate to any signal in the same range, and offers smooth interpolation to increase or decrease lines when converting between different line rates. The choice of output signal is not limited to a few presets but is entirely user-selectable.

The system can also be used to convert 875 line FLIR to 525 (or 625) line video for recording, and then back to 875 lines for display on a FLIR monitor. Pan and zoom functions allow selective extraction of any portion of the original signal for cropping or aspect ratio adjustment. Independent vertical and horizontal adjustments allow a wide range of possibilities. Conversion to lower line rate signals can be executed by extracting a portion of the original signal, or by down-converting the entire raster, or a combination of extraction and down-conversion.

The UDC 100 includes automatic synchronization to any input signal. In addition, the output signal can be synchronized and locked to an external reference.

RGB SPECTRUM®
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Front and back panel configurations



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Input Signal

Type:	RGB
Horizontal scan rate	15 kHz to 45 kHz interlaced 30 kHz to 90 kHz non-interlaced
Frame rate	Up to 80 Hz
Resolution	640 x 480 to 1280 x 1024 pixels
Video levels	0.7 to 1.0V peak-to-peak
Sync type	Sync on green, separate composite sync, or separate H-Drive and V-Drive
Connector	15 pin HD D-Sub (male)
Image controls	Position, freeze frame, pan and zoom, brightness, contrast, gamma

Output Signal/Reference Signal

Horizontal scan rate	15 kHz to 45 kHz interlaced 30 kHz to 90 kHz non-interlaced
Frame rate	Up to 100 Hz
Resolution	640 x 480 to 1600 x 1200 pixels
Video levels	0.7 to 1.0V peak-to-peak
Sync type	Sync on green, separate composite sync, or separate H-Drive and V-Drive
Connector	13W3 Coax-mix D-Sub (female)

Other

Power	90-250 VAC, 47-63 Hz Less than 50 Watts
Control	RS-232
Size	17.5" (W) x 18.0" (D) x 3.5" (H) 19.0" (W) 2U rack mount kit available
Weight	Approximately 25 lbs

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