FOUR
UNIVERSAL
SCALERS
IN ONE
PACKAGE



QUADRA UDC 400

Multi-Channel Signal Converter

The QuadraTM UDC 400 sets a new standard for multi-format scan conversion and scaling with a full range of digital and analog inputs and outputs, four independent channels, and the smallest footprint in its class.

When using DVI inputs and outputs, the Quadra offers a completely digital path from signal source to display. Even when converting an analog signal, a DVI output means fewer A/D and D/A conversions, resulting in higher quality conversions.

The Quadra offers four real time scalers in a single 1RU enclosure. Each channel is capable of scaling or converting different RGB, DVI, HDTV, and standard video signals.

The unit accepts inputs up to 1600 x 1200 pixels and converts them to any RGB or DVI format. All output signal parameters are user-selectable, including line rate, frame rate, interlacing and blanking.

Pan and zoom functions allow selective extraction of any portion of an image for cropping or aspect ratio adjustment. 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.

All functions are easily set up and controlled using a command line interface from either the RS-232 or Ethernet ports.

Built on RGB Spectrum's long tradition of quality and reliability in mission critical applications, the Quadra is an excellent solution for all signal conversion requirements.

FOUR INDEPENDENT CHANNELS:

Up Convert and Down Convert

RGB, HDTV, S-Video, NTSC/PAL Inputs

Inputs / Outputs to 1600 x 1200 pixels

Optional DVI Inputs

Pan and Zoom

RGB/DVI Outputs

Ethernet and RS-232 Control

Compact 1RU Chassis

UNIVERSAL SCALING:

Interlaced \Rightarrow Non-Interlaced

875 * 525 Line

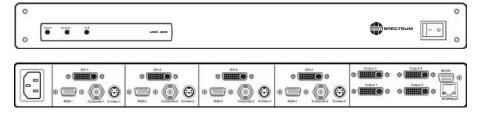
Aspect Ratio ↑↓

Line Rate †↓

Video → RGB

Specifications

Input Signals 4 x RGB / Y Pb Pr / HDTV 4 x DVI (optional) Type / Number 4 x Composite 4 x S-Video $640 \ x \ 480$ to $1600 \ x \ 1200$ pixels 720p and $1080i \ HDTV$ Resolution Horizontal $12\ \mathrm{kHz}$ to $125\ \mathrm{kHz}$ interlaced or non-interlaced scan rate Pixel clock (Max) 165 MHz Video levels 0.7 V p-p Sync type Sync on green, separate composite sync, or separate H-drive and V-drive Connectors RGB: 15-pin HD D-Sub (female) DVI: 24-pin DVI-D Composite: BNC (female) S-Video: 4-pin mini DIN (female) Output Signals 4 x RGB analog Type / Number 4 x DVI digital Resolution 640 x 480 to 1600 x 1200 pixels Horizontal 12 kHz to 125 kHz interlaced or non-interlaced scan rate Pixel clock (Max) 165 MHz Video levels 0.7 V p-p Sync on green, separate composite sync, or separate H-drive and V-drive Sync type Analog and digital: 29 pin DVI-I Connectors Other 85 - $264\ VAC$ auto range $47\ Hz$ - $400\ Hz$ Power Less than $65~\mathrm{W}$ Ethernet 10 / 100 BASE-T RS-232 Control Size Width 17.25" (43.8 cm) Depth 15.3" (38.9 cm) Height 1.75" (4.5 cm) Rackmount Rackmount kit included Weight Approximately 14 lbs. (6.3 kg.)



Front and Rear Panels with Optional DVI Inputs