VP-791

3G HD−SDI to DVI/HDMI Digital HQV Scaler with Color Correction & Geometric Processing

The VP−791 is a high−performance digital scaler for 3G HD−SDI signals. It up− or down−scales the incoming signal, processes the image with HQV and flexible geometry correction and outputs the signal to a DVI/HDMI connector.

FEATURES

- HQV® Video Processing - HQV (Hollywood Quality Video) processing represents the state−of−the−art in video processing technology, with the highest quality de−interlacing (with 3:2 & 2:2 pull down), 4D motion adaptive SD noise reduction, and outstanding scaling performance for both standard−definition and high−definition signals.
- HDTV Compatible.
- Multi-Standard Operation - SDI (SMPTE 259M), HD−SDI (SMPTE 292M) and 3G HD−SDI (SMPTE 424M).
- Supported Input Resolutions - HD: 720p23.97/24/25/30/50/59.94/60, 1080i50/59.94/60, 1080psf, 1080p23.97/24/25/30, 1080p30/50/59.94/60; SD: 625i (576i), 525i (480i).
- HDMI Output Support - Deep color up to 12 bit.
- Powerful Geometry Correction - For off−axis projection, pin/barrel and image rotation.
- Portrait Mode Image Extraction - Rotation and zoom from landscape input.
- Selectable Processing Versus Latency - Best Picture and low latency modes; Best Picture latency as low as 0.25−frame progressive inputs, 1.25−fields interlaced inputs.
- Selectable I/O Lock Mode - Or frame rate conversion mode.
- Flexible Colour Calibration Controls - RGB Gains, RGB Cut−Offs/Black Levels, Saturation, Hue, Brightness, Contrast controls, Gamma selection.
- Active 3G HD-SDI Cable Equalization.
- Built-in Test Pattern Generator.
- Non-Voltatile Memory - Auto−saves and recalls settings.
- USB Port - For upgrading firmware.
- Programmable Customer Logo on Menu.
- Flexible Control Options - Built−in Web server RS−232, TCP/IP API, keypad for direct input selection and OSD menu access.

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TECHNICAL SPECIFICATIONS

INPUT:	1 SD/HD/3G HD−SDI for 4:2:2 signals up to 1080p on a BNC connector.
OUTPUT:	1 DVI/HDMI on a DVI connector.
OUTPUT RESOLUTIONS:	Common VESA formats from 640x480 to 1920x1200, and HD formats at 720p, 1080p.
LATENCY:	As low as 0.25−frame progressive inputs, 1.25−field interlaced inputs.
SIGNAL PROCESSING:	10−bit signal inputs, 12−bit accurate internal processing; 4−field full resolution SD & HD processing.
DE-INTERLACING:	Motion adaptive per pixel video de−interlacing, multi−directional diagonal de−interlace filter.
POWER SOURCE:	12V DC, 1.5A approx.
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F).
STORAGE TEMPERATURE:	−40° to +70°C (−40° to 158°F).
HUMIDITY:	10% to 90%, RHL non−condensing.
DIMENSIONS:	16.7cm x 15.8cm x 3.9cm (6.58" x 6.23" x 1.54") W, D, H (excluding connectors).
WEIGHT:	0.5kg (1.1lb).
INCLUDED ACCESSORIES:	12V DC power supply, DVI−D cable, user manual/CD.