



## 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-Volatile 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.

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.
INCLUDED ACCESSORIES:	12V DC power supply, DVI-D cable, user manual/CD.
OPTIONS:	RK-T2B 19" rack mount.

