

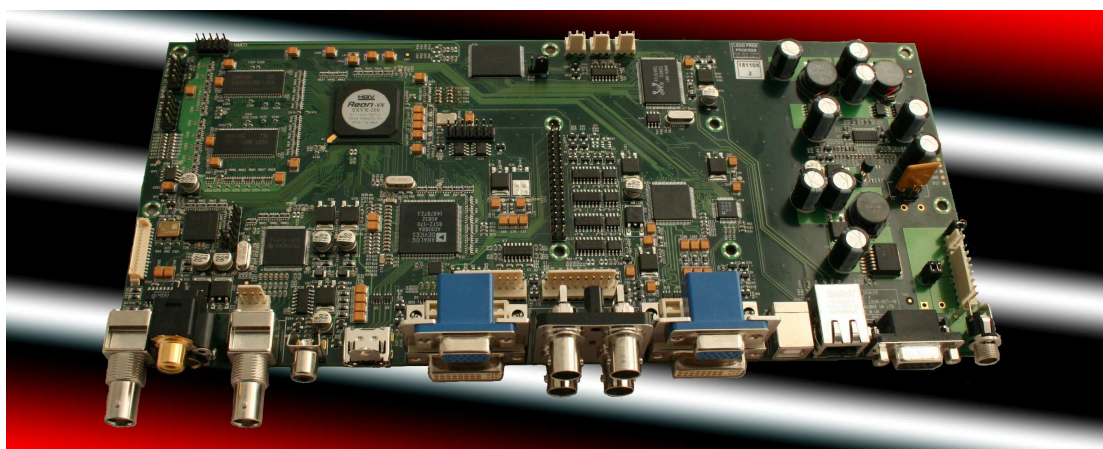
PV6-S Reon Evaluation Kit

HQV™ inside your display

PV6-S Reon Eval Kit is designed to allow OEMs to evaluate the functionality of PV6 and the performance of IDT's Reon video processor with zero design effort.

Harnessing the power of the Reon™ video processor from IDT, running state of the art HQV algorithms with expertly designed hardware and firmware from Calibre, PremierView6-S (PV6-S) provides stunning image quality and product design flexibility for OEM applications.

PV6-S gives low-medium volume OEMs access to Reon HQV technology which would otherwise not be available due to minimum order volume requirements from the chip manufacturer and prohibitive technical development costs. PV6-S offers fast time to market, low up-front cost.



- Motion adaptive per pixel video de-interlacing, HD & SD.
- Multi-directional diagonal de-interlace filter.
- Automatic 3:2 & 2:2 pull-down detection with automatic film, video and video over film detection
- Adaptive Image Enhancement
- Edge anti-aliasing
- 4-field full resolution SD & HD processing
- 4D Motion and Noise Adaptive HQV noise reduction for SD including CODEC noise reduction for mosquito and block noise, spatial and temporal noise reduction.
- 10-bit signal inputs, 12-bit accurate internal processing
- PIP, POP, PAP
- selectable processing versus latency: best picture, normal and low latency modes
- Latency as low as 0.25-frame for progressive inputs, 1.25-frames for interlaced inputs
- Flexible colour calibration controls
- Gamma controls
- Inputs up to 1080i and 1080p
- Outputs up to 1080p / WUXGA
- Image warp controls for 4-corner correction, keystone, pin/barrel and rotation.
- Optional TCP/IP remote control function and Web Server.
- Easy to navigate self-explanatory OSD menus
- RS232 remote control
- Optional IR remote control
- Simple keypad, or complex I²C-connected keypad supported
- USB port for in-field firmware updates
- Audio Extension port providing full access to HDMI audio stream
- Can be custom-programmed with customer logo on menu and start-up screen

Designed specifically for integration within a scaler, av receiver or other video processing system, PV6-S enhances picture quality on displays and projectors for a better viewing experience in many applications. Variants of PV6-S are available specifically for medical, industrial, military, broadcast and consumer applications. Full or partial customisation is also undertaken: OSD, functionality, layout and connectivity changes available.

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Inputs

Video – baseline configuration:

2x Composite Video CVBS (NTSC, PAL & SECAM), 1x via BNC jack and 1x via Cinch
 1x YC/S-Video via 4 pin mini DIN
 1x Component analog video YPbPr(s) or RGBS via 3 or 4 x BNC jack
 1x HDMI1.3 with HDCP, 8/10/12 bit video compatible, 10-bit internal processing depth. Audio strip-off of SPDIF compatible formats.
 1x DVI with HDCP.
 1x SVGA analog via 15HDD.

Optional video inputs:

External

1 x HD-SDI, accepts SD and HD SDI signals via BNC.

Internal

1x Composite Video internal to display, for connection to third-party tuner.
 1x YC/S-Video internal to display, for connection to third-party tuner.
 1x Component internal to display, for connection to third-party tuner.
 1x HDMI/DVI internal to display, for connection to third-party media server, disc player or fiber receiver.

Supported video formats:

HD 720p, 1080i, 1080psf, 1080p23.97/24/25/30, 1080p30, 1080p50, 1080p59.94, 1080p60
 ED 480p, 576p (not via SDI)
 SD 625i (576i), 525i (480i)
 VESA graphics formats from 640x480 to 1920x1200 (with reduced blanking for 1920x1200 and 1600x1200 modes)

Multi standard support for CVBS & YC in PAL, NTSC, SECAM formats.

Outputs

1x DVI with HDCP
 (HDMI 1.3 8/10/12 bit, DVI-I connector).

1x SVGA analog via 15HDD.

1x S/PDIF digital audio via RCA.

Audio Extension Port

1x 34pin header for optional audio board
 (8ch I²S and SPDIF HDMI audio stream access, I²C bus control, mute, power)

User Controls

Remote control via IR remote (optional), RS232 serial and TCP/IP.

Optional Remote control via TCP/IP and Web Server.

Keypad connection via simple contact closures or I²C-bus.

USB port for uploading software updates and new features.

Power Requirements

12-24VDC, +/- 10%, 1.5A typical.

Warranty

1-year return to base warranty covers parts and labour, shipping excluded.

Product Code: **PV6-Evalkit-01**

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World-wide support and OEM
 design service

