XV-AVHD

3 Input Capture Card

Triple Channel Capture Card

XV-AVHD has three independent video capture inputs - two supporting HD capture and a third supporting SD composite video. The XV-AVHD also adds multiple channels of audio capture, which can be synchronised in software using time stamping with all video capture channels.

Both DVI HD inputs support HDMI, DVI, RGB and Analog Component (YPbPr) input via a DVI-I connector with associated adaptors. Resolution support up to 4096x4096 pixels and 1080p / 60fps.

Standard definition input as composite video on a single RCA connector, with auto detection between PAL, NTSC and SECAM formats

The XV-AVHD captures all three video channels simultaneously and triple buffers them into on-board storage for tear free video, alongside an audio stream that can be selected from one of the HDMI or one of the analog audio ports. Optional XV-AM2 audio module required.

The XV-AVHD is supplied with X-VIEW unified drivers which include DirectShow Interface to allow other applications to recognise the capture card inputs.

FEATURES

- Triple channel PCIe capture card
- 4 Lane PCIe bus, 1.6GB/s total capture bandwidth
- Frame buffer memory 2 x 256 MB
- Balanced XLR and Unbalanced RCA audio via optional XV-AM2 module
- All standard X-View features
- X-View unified Windows and Linux driver support

TWO DVI-I Capture Channel

- HDMI/ DVI/ RGB/ YPbPr Video Capture
- HDMI audio capture from each DVI channel
- Low input to output capture latency
- Compatible with Nvidia GPU Direct

SD Composite Video Features

- PAL, NTSC, SECAM up to 720 x 576 @ 16 Bit

SPECIFICATIONS

Board Format	Half size, 4 lane PCIe 110mm x 170mm
Connectors	2 x DVI-I, 1 x RCA (Female)
HDMI Capture	• Supports HDMI 1.3 to 225MHz HDCP only with XV-IMGDP4 Graphics • HDMI audio can be selected as source for audio streaming • Incorporates TMDS EQ to support up to 20m cables
DVI Capture	Supports DVI 1.0 RGB 24bit capture to 165MHz
VGA/YUV Capture	Triple ADCs sampling up3to 170Msps. Full 4:4:4 sampling, 8 bits per colour, 5/4/3 and Sync on Green support.
Composite Video Capture	CCIR601 sampling. PAL, NTSC, SECAM auto detected
Audio Capture	Stereo Line-In/Stereo balanced inputs with programmable gain (+/-12dB) 16 bit sampling at 44.1/48/96 kHz Analog stereo line out for direct passthrough of selected input at up to 64 kHz sampling, sourced from Analog input or HDMI channel.
Video Capture Memory	256MB high bandwidth frame buffer supports triple buffering of HD and SD video. Local storage of complex scatter gather tables for DMA engine (eliminates read overhaed)
Video Processing	Polyphase FIR scaling engine (7x5) for hardware downscaling and upscaling Colour space conversion allows captured data to be transferred in any format: • RGB 16 bit 5-5-5, 5-6-5, 24 bit 8-8-8 or 32 bit 8-8-8-Alpha • YUV 16 bit 4:2:2 • Mono 8 bit
Power Requirements	Max current at 12V – 1A Max current at 3.3V – 1A Max power 15.5 Watts
Operating Temperature	0 to 35 ºC (32 to 96ºF)
Relative Humidity	5% to 90% non-condensing
Warranty	1 year

Model Code	Description
XV-AVHD	Triple channel HDMI/DVI/RGB/YUV/Composite Capture card (XV-AM2 optional audio module)
Accessories	Adaptors are available for DVI-VGA / DVI-HDMI / DVI - YUV as optional extras

We are continuously developing the technology used within our product ranges delivering outstanding innovative solutions, therefore the specification may change from time to time.

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