



Videum Quattro

Videum Duo

Videum[®] Quattro and Videum Duo[®]

Multi-channel audio/video capture and streaming solution for professionals.

Multi-Channel Audio/Video

For many broadcasters and video professionals, one channel is seldom enough. And coordinating multiple capture cards with different inputs can be an ordeal. With its years of video capture and streaming experience, Winnov tackled the difficult problem of providing four simultaneous AV channels with on-board AV matrix switch in a single PCI bus card. The result is the Videum Quattro, a four-channel audio/video capture card with the broadcast quality and absolute reliability required for on-the-air streaming of live events. And for those applications where two AV channels are sufficient, the Videum Duo offers the same quality, reliability and flexible features in a two-channel version.

The Videum Duo and the Videum Quattro are multi-channel audio and video capture cards specially engineered for real-time encoding and archiving. Winnov's Videum Duo and Videum Quattro capture respectively two and four independent audio and video signals up to 640x480 resolution and 30 fps per channel.

Broadcast Quality

Quality in audio and video capture results from the incorporation of a myriad of details in the capture circuitry and driver software. The Videum Duo and the Videum Quattro integrate Winnov's proprietary PCI bus interface to insure optimization of the capture and storage process. It also leverages Winnov's Elastic Frame Buffer architecture that insures no data is lost as video frames are digitized and presented to the PCI bus. The result is excellent image quality in images of 640x480 @ 30 fps (NTSC) or 768x576 @ 25 fps (PAL).

Absolute Reliability

Quality goes also with reliability. Accordingly, Winnov provides a sturdy breakout box with locking connectors so that you never again experience signal interruption. For unattended operation, both the Videum Duo and Videum Quattro are equipped with an auto-reboot Watchdog Timer with Failure Log. If for any reason the software locks up, Winnov's watchdog will automatically reboot the system allowing complete unattended operation, 24x7x365.

Compatibility with any streaming standard

Winnov's Videum Duo and Videum Quattro are fully-compliant with most video streaming standards and are optimized for real-time encoding and archiving with Microsoft Windows Media and Real Networks streaming formats.



Videum Duo and Quattro Key Features

- ✓ Capture of up to four independent audio and video channels at 640x480- 30fps (NTSC) and 768x576 - 25 fps (PAL) on one PCI card - 30 frames per second from all input sources simultaneously.
- ✓ Real-time capture and preview of analog video streams.
- ✓ High image quality thanks to Winnov's Elastic Frame Buffer architecture.
- ✓ Integrated high performance scalers, video processor, audio processor, AV matrix switch.
- ✓ Standard streaming formats supported- ideal for Windows Media, Real Networks and DivX formats.
- ✓ Guaranteed audio and video synchronization - reliable 24/7 operation.
- ✓ Professional connectivity with locking connectors.
- ✓ Balanced Audio Inputs for high quality sound.
- ✓ Multiple boards per installation supported.
- ✓ Multi-processor systems supported.
- ✓ Motion JPEG compression and uncompressed formats(YUV) included.
- ✓ Ability to remotely pan, tilt and zoom any of the four video inputs.
- ✓ Multi-channel display of the four video inputs.
- ✓ Integrated watchdog function for auto reboot detection and event signaling - ensures high reliability.
- ✓ Remotely control image properties from anywhere at anytime using your web-browser.

Professional Connectivity:
Videum Duo includes one breakout box.
Videum Quattro includes two breakout boxes.



To learn more about Videum Duo and Videum Quattro, call us today at (408)744-9777, or visit www.winnov.com.

Specifications for Videum Duo and Videum Quattro

Videum Duo	Two-channel audio and video capture card Number of Video Capture Channels: 2 independent channels Video Sources: 2 S-Video or 4 Composite (selectable) Number of Audio Capture Channels: 2 independent channels Audio Sources: 2 XLR stereo balanced and 2 balanced audio-in
Videum Quattro	Four-channel audio and video capture card Number of Video Capture Channels: 4 independent channels Video Sources: 4 S-Video or 8 Composite (selectable) Number of Audio Capture Channels: 4 independent channels Audio Sources: 4 XLR stereo balanced and 4 balanced audio-in

Streaming formats: Microsoft Windows Media; Real Network

SHARED TECHNICAL SPECIFICATIONS

Hardware and Driver

Multiboard capable:	Yes, no interrupt or DMA conflicts
SMP capable:	Yes, optimized for multi-processor systems

Video and Audio

Connector Type:	BNC
Video Standard:	NTSC or PAL
Capture Formats:	Motion JPEG Compressed Video Uncompressed Video (YUV4:2:2, YUV4:2:0, or RGB)
Image Size:	Programmable per channel 32x24 to 640x480 (NTSC) - 32x24 to 704x576 (PAL)
On-board Video Processor:	Brightness, Contrast, Hue, Saturation
Video Capture Performance:	Up to full resolution per channel
Display:	Full screen with direct draw capable graphic card
Text and Graphics Overlay:	Yes, programmable per channel
Date and Time Overlay:	Yes, selectable per channel
Watchdog Function:	Yes, programmable with automatic failure log

Audio Formats:	Up to 48Khz 16-bit stereo
Audio&Video Synchronization	2 or 4 fully-synchronized audio /video channels

Videum Breakout Box

(Videum Duo includes one; Videum Quattro includes two breakout boxes)	
Video Inputs:	4 BNC (4 Composite or 2 S-Video)
Audio In 1:	2 Duplex XLR 1/4" jacks (balanced stereo)
Audio In 2:	2 1/4" TRS-phono jacks (balanced stereo)
Audio Out:	2 1/4" TRS-phono jacks (balanced stereo)

System Requirements

CPU Performance:	Pentium III or better. Performance depends on CPU.
PCI:	One free 32-bit or 64-bit PCI slot
System Memory:	128 MByte
Other:	CD-ROM drive for software installation
Operating System:	Windows NT, 2000, Windows XP
Voltage:	It is a 32Bit/33MHz PCI "Universal" (3.3&5V) card Can be plugged in both 32 and 64 Bit PCI slots
Board Dimensions:	7.25" (L) x 5" (H) / 184.15 mm (L) x 127 mm (H)

Software Applications

Videum Capture:	Capture applet for test purposes
Videum Configure:	Configures default properties for each channel
Videum Insignia:	Graphic and date/time overlay tool
Videum Zoom:	Local and remote control of visual parameters, source selection and digital zoom
Watchdog services:	Enable, disable and configure watchdog

Software Development Kit

Development Platforms:	HTML and web scripting, Visual C++, Visual Basic
ActiveX Components:	Video and audio capture and preview Remote control for video source selection Watchdog setup Audio monitoring
Sample Programs:	Web based four-display video Web based automatic source switch Web based automatic pan, tilt and zoom

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