



Videum Quattro

Videum Duo

Videum® Quattro and Videum® Duo

Multi-channel audio/video capture and streaming solution

Multi-channel capture solution for Broadcasters

With more than 10 years of experience in video capture and widely recognized for its leadership in streaming video, Winnov has the innovative products and industry-leading technologies to fulfill the high requirements of the broadcasting industry. Winnov has added the Videum Duo and the Videum Quattro to its product line of high quality and high performance Windows-based capture cards. The Videum Duo and Videum Quattro are multi-channel audio and video capture cards specifically engineered for video streaming solutions over the internet. They give Broadcasters and Video Professionals a high-performance and absolutely reliable solution for **real-time encoding and archiving**.

Absolute Reliability Highest Quality

Winnov's Videum Duo and Videum Quattro have been designed to provide the highest quality available in the industry and the absolute reliability required for any live webcast. Videum Duo and Videum Quattro integrate an **elastic frame buffer architecture** which optimizes the PCI bandwidth and the image latency. Without frame buffering, some captured pixels may be lost if the PCI bus is not ready to accept each full frame as it is digitized. With Winnov's unique frame buffer architecture, the Videum Duo and Videum Quattro employ an elastic buffer to store pixels on-board for optimum use of the PCI bus. With this innovative Elastic Frame Buffer, Videum Duo and Videum Quattro reliably capture multiple video streams at full frame resolution without any dropping pixels - providing you the high quality you need for real time encoding and archiving.

State of the Art technology

Winnov's Videum Duo and Videum Quattro capture respectively two and four independent audio and video signals with up to 640x480 resolution and 30 fps per channel. Both capture cards features professional locking connectors and support the highest quality archives with uncompressed video capability as well as MJEG compression, ideal for video editing.

Compatibility with any streaming standard

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

The reliability of any solution built around the Videum Duo and Videum Quattro is increased through the integration of a built-in watchdog function that will automatically reboot the system in the event of a software lock-up. It also provides an automatic failure log for monitoring the solution's performance. This watchdog feature allows complete unattended operation, 24x7x365.



Videum Duo and Quattro Key Features

Key Features:

- ✓ Captures up to four independent audio and video channels at full video size and full resolution on one PCI card - 30 frames per second from all input sources simultaneously.
- ✓ Real-time capture and preview of analog video streams.
- ✓ Elastic Frame Buffer Architecture for high image quality.
- ✓ Integrated high performance scalers, video processor,,audio processor,AV matrix switch.
- ✓ Supports standard streaming formats - 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.
- ✓ Supports multiple boards per installation.
- ✓ Supports multi-processor systems.
- ✓ Includes Motion JPEG compression and uncompressed formats(YUV)
- ✓ 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.

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 balanced stereo and 2 unbalanced 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 balanced stereo and 4 unbalanced audio-in
Streaming formats: Microsoft Windows Media; Real Network; DivX	

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:	Single processor 1.5 Ghz or better
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" (3.8&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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