



Videum 004 AV/VO

Reinforce your video surveillance infrastructure with a reliably superior multi-channel solution.

Key Features

Multi-Channel Capture Architecture

- Capture 4 video input signals
- Captures at 640x480 (NTSC)
- Captures at 704x576 (PAL)
- 4 simultaneous streams from 4 independent sources
- 4 composite video connections
- Customize resolution, frame rate, and compression
- Upgradeable hardware via download.

Imaging Capability

- Superior image quality
- Program image size per source
- Full screen with DirectDraw capability
- Total control over all video properties
- Supports various compression formats

Surveillance Customization

- integrated watchdog function
- Automatic failure log.
- Motion detection, independent per source
- Reliable 24/7/365 operation
- Alert detection & event signaling
- Text and graphic overlays
- Date and time overlays

Multi-Processor and Multi-Board Capability

- IRQ and DMA conflict-free
- Scalable: multiple boards per system
- Optimized for multiprocessor system
- Universal, fits 32-bit and 64-bit slots
- PCI 2.2 compliant
- Very low power consumption

The high-performance Videum 004 AV/VO solution captures an unprecedented 4 simultaneous video streams from 4 independent video sources at a remarkable price.

This multi-channel video capture card was designed for security applications and video surveillance. Videum 004 VO and Videum 004 Av both excel in any surveillance network infrastructure, regardless of size or complexity. Our cards are designed to leverage multi-processor systems and are scalable on multi-board systems without the typical bus conflicts found with capture cards that lack an on-board frame buffer.

Powerful features including upgradeable hardware via download, complete control over all video properties and per channel motion detection capability makes video surveillance easier to manage. Winnov's Elastic Buffer architecture, coupled with a Multi-DMA engine deliver clear and sharp images at high field rates with low CPU utilization and low power consumption. With up to 240 fields per second aggregate video bandwidth per card, Videum 004 provides the highest ROI on performance and dependability in a multi-camera deployment. Field tested components and the ability to work with both VFW and DirectShow drivers delivers assured operation and 24/7/365 reliability.

Built on a highly stable platform, Videum 004 AV/VO supports hundreds of existing applications including leading intelligent video surveillance, video recording and video streaming applications. An included SDK dramatically reduces development time of sophisticated applications containing embedded modules such as motion detection, text and graphics overlays, and support for multiple compression standards.

Leading manufacturers such as CISCO™, GE™, and TYCO™ choose Videum video capture cards to power the video capture functionality in their own products. Videum 004 AV/VO enhances video surveillance through reliable, scalable, feature-rich technology that only comes from Winnov.



Videum 004 AV & VO Technical Specifications

Video	Video Sources	4 input ports
	Field Rate	Up to 240 fields per second aggregate
	Video Connectivity	4 composite
	Video Input Formats	NTSC-M, PAL-BDGIH
	Connector Type	4 x BNC
	Video Capture Performance	Up to 640x480@30fps (NTSC) Up to 704x576@25fps (PAL)
	Image Size	Programmable per Channel Up to 640x480 (NTSC), Up to 704x576 (PAL)
	Capture Formats	Motion JPEG Video Uncompressed Video (YUV4:2:2, YUV4:2:0, RGB)
	Image Properties	Brightness, Contrast, Hue, Saturation
	Display	Full screen with direct draw capability
	De-Interlacing	Yes
	Elastic Frame Buffer	Yes
	Video Loss Detection	Yes
	Video Signal Termination	Yes
Audio	Audio	Applicable to Videum 004 AV only
	Audio Sources	4 x mono, line level
	Audio Capture Channels	4 independent channels
	Audio Connections	Adapter cable with 4x3.5mm connector
	Audio Formats	Up to 48Khz, 16-bit stereo
	Audio & Video Synchronization	4 fully synchronized channels
	Audio Input Level	Max: 0dbv (2.2dbu) Typical: -10dbv (-7.8dbu) (0dbv = 1Vrms; 0dbu=0.775V)
Surveillance Features	Watchdog Function	Programmable with automatic failure log
	Motion Detection	Independent per channel, Configurable mask
	Digital I/Os	32 digital TTL I/Os via on-board connector (additional I/O module available with external header)
	Text and Graphic Overlay Date and Time Overlay	Configurable per channel Configurable channel
Hardware and Drivers	Drivers	DirectShow
	Board Dimensions	6.65" x 3.86"; 169mm x 98mm
	PCI	PCI 2.2 compliant; Universal card for 3.3 and 5V 32-bit/33MHz and 64-bit PCI slot compatible
	PCI Resources	PCI Busmaster; single IRQ; 256K PCI memory space
	Multi-board Capability	Yes, IRQ and DMA conflict-free
	SMP Capability	Yes, Optimized for multi-processor systems
	Power Consumption	Videum 004VO: 2.4W Videum 004AV: 3W
System Requirements	CPU	AMD and Intel CPU support, 1GHz or higher
	System Memory	128 MByte
	Operating System	Microsoft 2000, XP, Vista, 7, Windows Server 2003, 2008 (DirectX9 required)
Software Applications	Software	Windows Media™ Encoder 9, Windows Messenger, Helix DNA
	Videum SDK	Included
	Development Platforms	HTML and web scripting COM compliant including Visual Basic .net, C Sharp
	SDK Components	Watchdog setup Digital I/O control - event driven Video monitoring and control - out of process Video capture and preview Bitmap and text overlays Multiple format options Temporal noise filtering Motion Detection

For More Information

For more information about Videum 004 AV, the Videum family of products, and other Winnov encoding & streaming solutions, visit www.winnov.com/products.