



Videum[®] 4100 Audio/Video Capture Card with four switchable inputs

Videum 4100: Audio/Video Capture Card with four switchable inputs

In today's high-threat environment, increasing the level of security in every organization has become a necessity. Whether the security focus is on airports, office buildings or retail establishments, having the ability to monitor multiple cameras in real-time is essential. To counter this threat, Winnov now offers affordable and reliable video capture solutions specifically engineered for surveillance.

One Channel - Four inputs

The Videum 4100 is a single channel audio/video capture card designed for security applications and video surveillance. It supports four composite video inputs from which one channel can be captured. The Videum 4100 captures one stream up to 640x480 pixel resolution at 30 frames per second. Videum 4100's software also features an applet that enables fast switching between the four video sources either manually or automatically. With the Videum 4100 capture card, its software applets and Software Development Kit, OEMs and System Integrators can easily build a high performance and cost-effective security/surveillance solution.

Monitoring Multiple Cameras

Video inputs are provided via four BNC connectors while audio inputs are via a Mini-Din 8 connector. The Videum 4100 includes a software applet called Videum Source Switch which allows a user to automatically switch between video sources, locally or remotely, without stopping the capture process. Sequence timing may be set-up by the user making the Videum 4100 ideal for casinos, retail

Scalable

Because of its proprietary ASIC, the Videum 4100 capture card provides a scalable solution for OEMs and System Integrators. They can confidently design the Videum 4100 into their applications knowing that there will be no DMA or IRQ conflicts, even when using multiple boards in a single system. And the Winnov Videum 4100 has been optimized for multi-processor systems, enhancing both performance and scalability.

Integrated Security Features

The Videum 4100 is easily integrated into all video surveillance applications from the simplest to the most complex. With up to four audio/ video sources, plus a hardware watchdog and digital input triggers - all in one board- Winnov has eliminated the need for you to incorporate multiple boards into your customer's solutions.

Reliable

The reliability of any solution built around the Videum 4100 is increased through the integration of a built-in watchdog function, automatically rebooting the system in the event of a software lock-up. This allows for complete unattended operation, 24x7x365. This watchdog also provides an automatic failure log for monitoring the solution's performance.

Videum 4100 Key Features

- √ Captures one audio and video data stream at 640x480 at 30 fps (NTSC) or 704x576 at 25fps (PAL).
- √ Allows switching to any of the four camera inputs during encode without stopping the process - locally and remotely. (applet has be downloaded from Winnov's website)
- √ Supports Winnov's Elastic Frame Buffer architecture for superior image quality.
- √ Real-time capture and preview of analog video streams.
- √ Customized capture resolution, frame rate and compression settings for each video stream
- √ Motion JPEG compression and uncompressed output formats(YUV).
- √ Integrated watchdog function for auto reboot. Automatic failure log bug tracking.
- √ On-board digital I/O triggers provide alert detection and event signaling.
- √ Reliable 24/7 operation.
- √ Free software development kit included.
- √ Support of multiple boards per installation.
- √ Support of multi-processor systems.
- √ Ability to remotely pan, tilt and zoom any of the four video inputs.
- √ Remotely control image properties from anywhere at anytime using your web-browser.
- √ Overlay of graphics or text may be used to identify each camera.
- √ Timestamp overlay.
- √ Monochrome and color, PAL/NTSC cameras.
- √ Universal capture card for 32-bit and 64-bit slots.

Specifications for Videum 4100

Hardware and Driver	
Multiboard capable:	Yes, no interrupt or DMA conflicts
SMP capable:	Yes, optimized for multi-processor systems
Video	
Video Sources:	4
Video Capture channel:	1 single-channel
Video Connections:	4 composite
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:	32x24 to 640x480 (NTSC) 32x24 to 704x576 (PAL)
Digital Zoom:	Up to 4:1 - Remotely controllable via IP
Image Properties:	Brightness, Contrast, Hue, Saturation Remotely controllable via IP
Video Capture Performance:	Up to 640x480 at 30fps (NTSC) per channel Up to 704x576 at 25fps (PAL) per channel
Digital I/Os:	8 Port TTL I/O with interrupt/event signaling
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	
Audio Sources:	4 stereo
Audio Capture Channel:	1 single channel
Audio Connections:	4 stereo 3.5 mm mini jack via breakout cable
Audio Output:	1 on-board stereo audio line/ headphone output
Audio Samplings:	Up to 48Khz 16-bit stereo
System Requirements	
CPU Performance:	Pentium III or better
PCI:	One free PCI slot 32-bit/33 MHz
System Memory:	128 MByte
Other:	CD-ROM drive for software installation
Operating System:	Windows NT, 2000 and XP
Voltage:	It is a 32Bit/33MHz PCI "Universal" (3.3&5V) card Can be plugged in either 32 or 64 Bit PCI slots
Board Dimensions:	6.25" (L) x 3.75" (H) - 15.87 cm (L) x 9.525 cm (H)
Software Applications	
Videum Capture:	Capture applet for test purposes
Videum Configure:	Configure default behavior 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
Videum Source Switch:	Alternate between four video sources
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 Digital I/Os Control Audio monitoring
Sample Programs:	Web based digital inputs Web based automatic source switch Web based automatic pan, tilt and zoom

To learn more about Videum 4100, call us today at (408)744-9777, or visit www.winnov.com.

**America
Headquarters**
Winnov
1043 Kiel Court
Sunnyvale, CA 94089
USA
Tel: 408-744-9777
Fax: 408-744-0174
www.winnov.com

Asia
Winnov China., Ltd
Room 405, Catic Mansion,
No. 212 Jiangning Rd.
Shanghai, SH 200041, China
Tel: +8621-52895038
Fax: +8621-52895039
www.winnov.com.cn

