



Videum 4100 AV Xpress

The multi-channel video capture solution that continues to evolve, even after installation.

Key Features

Harness the power of PCI Express

- Add dimensions to live streaming events
- Fits 1, 2, 4, 8, 16x lane PCI Express slots
- Edit live events in real-time with VC1
- Enhanced audio synchronization
- Optimized for live encoding
- Seamless live video switching

Multi-Channel Capture Architecture

- 4 independent channels of D1 video
- 4 independent channels of balanced stereo audio
- Real-time capture & preview of analog video streams
- Multi-channel display of each video input
- Multiple encoding formats including WMV, Flash

Reliable and cost effective

- Stream more channels per system
- Hardware upgradable via download
- Unlimited scalability
- Hardware-based timestamp
- Guaranteed A/V synchronization
- Reliable 24/7/365 operation
- Professional locking connectors
- Auto reboot and event signaling
- Balanced audio inputs

In today's high-threat environment, increased security in every organization has become a necessity. Whether the security focus is on airports, office buildings or retail establishments, the ability to monitor multiple cameras in real-time is essential. Videum provides affordable and reliable video capture solutions specifically engineered for surveillance.

The Videum 4100 Xpress is a single channel audio/video capture card designed for security applications and video surveillance. Built upon the new PCI Express bus architecture, Videum 4100 AV Xpress boasts super fast encoding and increased efficiency. This powerful new bus architecture can quickly add value to your applications for manned or unmanned video surveillance systems. It supports four composite video inputs from which one channel can be captured.

The benefits of Videum on a PCI Express platform are endless. Performance is greatly increased while power consumption is cut by up to 50 per cent when compared to standard PCI based cards. Broadcast quality encoding is guaranteed with enhanced audio & video synchronization. The PCI Express platform also helps protect your investment: Videum is the only video capture card product line available that offers hardware upgrades via download. This key feature future proofs your investment and ensures that no matter how rapidly technology changes, deployed Videum capture cards will remain current.

The Videum 4100 Xpress includes a software applet that allows users to automatically switch between four video sources, locally or remotely, without stopping the capture process. Sequence timing may be set-up, making the Videum 4100 Xpress ideal for casino, retail, campus, and corporate park surveillance. Videum 4100 Xpress contains a built-in watchdog function that automatically performs a system reboot in the event of a software lock-up, allowing for complete unattended operation, 24x7x365.

Hundreds of existing applications are supported, including leading video recording and video streaming software. An included SDK dramatically reduces development time of sophisticated applications that contain embedded modules such as motion detection, text and graphic overlays, and support for multiple compression standards. The Videum 4100 Xpress provides a high-performance, scalable, and reliable solution that meets the growing demand for audio and video surveillance solutions to digitize, record, control and playback high quality video.



Videum 4100 AV Xpress Technical Specifications

Key Features (continued)

Customization

- Automatic failure log/bug tracking
- Remote pan, tilt and zoom
- On-board digital I/O
- Remotely control image properties
- Identify cameras with graphic overlay
- Timestamp overlay

Imaging Capabilities

- Captures 640x480 at 30fps (NTSC)
- Captures 704x576 at 25fps (PAL)
- Superior image quality
- Local & remote 4 channel switching
- Real-time capture & preview
- Customize resolution, frame rate, and compression
- Motion JPEG compression

Hardware and Driver	Multiboard capable: SMP capable:	Yes Yes, optimized for multi-processor systems
Video	Video Sources: Video Capture channels: Video Connections: Connector Type: Video Standard: Capture Formats: Video Size: Video Properties: Video Capture: Digital I/Os: Display: Text and Graphics Overlay: Date and Time Overlay: Watchdog Function: Deinterlacing Elastic Frame Buffer Video Loss Detection Video Signal Termination	4 1 independent channel, aggregate 30 frames per second; 60 fields per second 4 composite BNC NTSC or PAL Motion JPEG Compressed Video Uncompressed Video (YUV4:2:2, YUV4:2:0, or RGB) Programmable per channel 32x24 to 640x480 (NTSC) 32x24 to 768x576 (PAL) Brightness, Contrast, Hue, Saturation Up to 640x480 at 30fps (NTSC) per channel Up to 768x576 at 25fps (PAL) per channel 8 Port TTL I/O with interrupt/event signaling Full screen with DirectDraw® capable graphic card Yes, programmable per channel Yes, selectable per channel Yes, programmable with automatic failure log Yes Yes Yes Yes Yes
Audio	Audio Sources: Audio Capture Channels: Audio Connections: Audio Output: Audio Support: Audio Synchronization	4 stereo 1 independent channel 4 stereo 1/4" mini jack via breakout cable 1 on-board stereo audio line/ headphone output Up to 48 Khz 16-bit stereo Fully synchronized to System Multimedia
System Requirements	CPU System Memory Operating System PCI Express: Other: Board Dimensions: Power Consumption:	AMD and Intel CPU support, 1GHz or higher 512 MB Microsoft Windows 2000 Microsoft Windows XP Microsoft Windows XP64 Microsoft Windows Server 2003 Microsoft Windows Server 2003 x64 (DirectX9 required) Microsoft Windows Vista One PCI Express x1 slot (can also be placed in x4, x8 and x16 PCI Express slots) Fully PCI Express 1.0a compliant CD-ROM drive for software installation 6.7" x 4.02" – 169 mm x 102 mm 2.1W

For More Information

For more information about Videum 4100 AV Xpress, the Videum family of products, and other Winnov encoding & streaming solutions, visit www.winnov.com/products