



## Videum 4400 VO Xpress

The multi-channel video only capture solution that continues to evolve, even after it's deployed.

### 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
- Optimized for live encoding
- Seamless live video switching

#### Multi-Channel Capture Architecture

- 4 independent channels of D1 video
- 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
- Reliable 24/7/365 operation
- Professional locking connectors
- Auto reboot and event signaling

#### Surveillance Customization

- Integrated watchdog function for auto reboot
- Automatic failure log bug tracking
- Remotely pan, tilt & zoom all 4 video inputs
- Digital I/O triggers alert detection & event signaling
- Reliable 24/7 operation
- Remotely control image properties
- Identify cameras with graphic overlay
- Timestamp overlay

The Videum 4400 VO Xpress is a four channel video only capture card that produces broadcast quality video required for on-the-air streaming of live events and absolute reliability necessary for successful video surveillance. One Videum 4400 VO Xpress has the same performance as four single channel capture cards with the same slot footprint. Videum 4400 VO Xpress enables seamless switching between the four video sources either manually or automatically. Users can automatically switch between video sources, locally or remotely, without stopping the capture process.

Built upon the new PCI Express bus architecture, Videum 4400 VO Xpress boasts super fast encoding and increased efficiency. The benefits of Videum on a PCI Express platform are endless. Performance is greatly increased while power consumption is reduced by up to 50 per cent when compared to standard PCI based cards. Broadcast quality encoding is guaranteed with incredibly smooth video playback. Professionals seeking longevity and ROI rely on Videum as 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.

This powerful new bus architecture can quickly add value to your applications for manned or unmanned video surveillance systems. It is equipped with auto-reboot watchdog timer with a failure log for unattended operation. Winnov's watchdog will automatically reboot the system in the event of a software lock-up, ensuring minimal downtime and worry-free operation, 24x7x365. An included Videum SDK allows OEMs and system integrators to address individual client requirements and enables them to quickly differentiate their value offering. Developers and integrators can easily customize their own web-based applications as requirements demand.

The Videum 4400 VO Xpress provides a high-performance, scalable, and reliable solution that meets the growing demand for video surveillance solutions to digitize, record, control and playback high quality video.



## Videum 4400 AV Xpress Technical Specifications

### Key Features (continued)

#### 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

<b>Hardware and Driver</b>	Multiboard capable: SMP capable:	Yes Yes, optimized for multi-processor systems
<b>Video</b>	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 4 independent channels, 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 640x480 at 30fps (NTSC) per channel 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
<b>System Requirements</b>	CPU System Memory Operating System  PCI Express:  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 x1 PCI Express slot (can also be placed in x4, x8 and x16 PCI Express slots) Fully PCI Express 1.0a compliant 6.65" x 4.02" – 169 mm x 102 mm 3.7W
<b>Software Applications</b>	Applications	Windows Media™ Encoder 9, Windows Messenger™, Microsoft Expression™ Encoder, Adobe Flash® Media Encoder 2 Videum SDK (included)
<b>Development Platforms</b>	Platforms	HTML and web scripting, COM compliant including Visual Basic .net, C Sharp
<b>SDK Components</b>	Components	Video monitoring and control Video capture and preview Bitmap and text overlays Multiple format options Temporal noise filtering Motion Detection

### For More Information

For more information about Videum 4400 VO Xpress, the Videum family of products, and other Winnov encoding & streaming solutions, visit [www.winnov.com/products](http://www.winnov.com/products)