



## Videum 4400 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 unbalanced 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
- Unbalanced audio inputs

The Videum 4400 AV Xpress is a four channel audio/video 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 AV Xpress has the same performance as four single channel capture cards with the same slot footprint. Videum 4400 AV Xpress enables seamless switching between the four video sources either manually or automatically. The Videum 4400 AV Xpress includes a software applet that allows switching between video sources, locally or remotely, without stopping the capture process.

Built upon the new PCI Express bus architecture, Videum 4400 AV 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 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.

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, minimizing downtime and worry-free unattended 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 AV 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 4400 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

<b>Hardware and Driver</b>	Multiboard capable:	Yes
	SMP capable:	Yes, optimized for multi-processor systems
<b>Video</b>	Video Sources:	4
	Video Capture channels:	4 independent channels, 30 frames per second; 60 fields per second
	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)
	Video Size:	Programmable per channel 32x24 to 640x480 (NTSC) 32x24 to 768x576 (PAL)
	Video Properties:	Brightness, Contrast, Hue, Saturation
	Video Capture:	Up to 640x480 at 30fps (NTSC) per channel Up to 768x576 at 25fps (PAL) per channel
	Digital I/Os:	8 Port TTL I/O with interrupt/event signaling
	Display:	Full screen with DirectDraw® 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
	Deinterlacing	Yes
	Elastic Frame Buffer	Yes
	Video Loss Detection	Yes
	Video Signal Termination	Yes
<b>Audio</b>	Audio Sources:	4 stereo
	Audio Capture Channels:	4 independent channels
	Audio Connections:	4 stereo 3.5 mm mini jack via breakout cable
	Audio Output:	1 on-board stereo audio line/ headphone output
	Audio Support:	48Khz 16-bit stereo
	Audio Synchronization	Fully synchronized to System Multimedia Clock
<b>System Requirements</b>	CPU	AMD and Intel CPU support, 1GHz or higher
	System Memory	512 MB
	Operating System	Microsoft 2000, XP, Vista, 7, Windows Server 2003, 2008 (DirectX9 required)
	PCI Express	One x1 PCI Express slot (can also be placed in x4, x8 and x16 PCI Express slots) Fully PCI Express 1.0a compliant
	Other	CD-ROM drive for software installation
	Board Dimensions	6.7" x 4.02" – 169 mm x 102 mm
	Power Consumption	6W
	Software Applications Supported	Microsoft Windows Media™ Encoder 9 Microsoft Windows Messenger™ Microsoft Expression™ Encoder Adobe Flash® Media Encoder 2 Winnov Videum SDK (included)

### For More Information

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