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VideumII Broadcaster

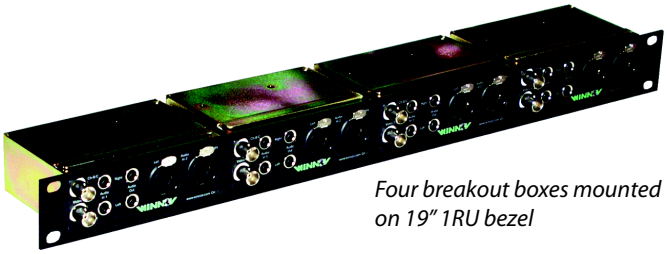
a new standard for the professional webcaster

Overview

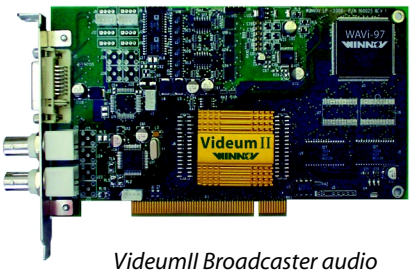
The VideumII Broadcaster is designed specifically to meet the demands of professional webcasters, video production experts and video presentation specialists.

The VideumII Broadcaster is a new generation of professional-quality audio and video capture solution targeted at streaming media encoding needs.

The VideumII Broadcaster is the first product of Winnov's second generation VideumII family of solution. Based on Winnov's proprietary AVX ASIC technology, it digitizes and encodes unmatched quality streaming media at various sizes for Microsoft Windows Media and Real Networks technologies.



Four breakout boxes mounted on 19" 1RU bezel



VideumII Broadcaster audio and video capture card

Applications

- live webcasting of events such as:
  concerts
  press conferences
  shareholder and board meetings
  Internet video chats
- streaming media encoding centers with 24/7 operation
- business TV
- video on demand
- video presentations
- corporate training
- distance learning

VideumII Broadcaster capture card

- supports standard streaming formats - ideal for Microsoft Windows Media and Real Networks G2 encoding software
- best video quality - low spatial and temporal noise for best video compression results
- best audio quality - balanced audio inputs for low noise audio capture
- high capture performance - full resolution and uncompressed NTSC and PAL video directly to memory or disk
- supports wide screen formats - 640 by 360 (16/9) and 640 by 272 (2.35/1)
- synchronized audio and video - reliable 24/7 operation
- be in control of your streams - change capture settings such as video input, image settings, and digital zoom while encoding (locally and remotely)
- highest performance - efficient bus utilization for low CPU usage

VideumII Broadcaster breakout box

- never lets you down - employs studio quality audio (XLR) and video (BNC) locking connectors, the same connectors that professional broadcasters have relied upon for years for high quality signal paths and that won't be pulled loose
- four BNC video inputs - 2 in the front and 2 in the back of the box (composite or S-video)
- two balanced audio inputs - one accepts XLR and ¼"TRS connectors, the second is ¼"TRS only
- one balanced audio output (¼"TRS)
- four breakout boxes can mounted on one 19" 1RU bezel (as shown in the picture above)
- optional 5.25" drive bay installation kit

WINNOV

Visual Communications for the Internet

Technical Specification

VideumII Broadcaster Capture Card

Video	NTSC or PAL	
Capture Formats	RGB8	8-bit RGB (256 colors)
	RGBH	16-bit RGB (32K colors)
	RGBT	24-bit RGB (16.8M colors)
	WINX	Interframe Compression, 16:1 to 48:1
	WNV1	Hardware Compression, 1:1 to 12:1
	WPY2	Software Compression, 8:1 to 14:1
	YUY2	YUV 4:2:2 (for video streaming)
	YV12	YUV 4:2:0 (for video streaming)
	YVU9	4:2:0 (Intel Indeo® Raw)
Image Size	32x24 to 640x480 (NTSC)	
	640x360 for 16/9 widescreen format	
	640x272 for 2.35/1 widescreen format	
	32x24 to 704x576 (PAL)	
Performance	640x480 30 fps uncompressed (NTSC)	
	704x576 25 fps uncompressed (PAL)	
Capture modes	time lapse and stop motion	
Display	full screen with direct draw capable graphics card	
File Format	AVI, ASF, and BMP	

VideumII Broadcaster Breakout Box

DVI Connector	audio, video, and control
Video Inputs	two BNC (2 composite or 1 S-video) in the front
	two BNC (2 composite or 1 S-video) in the back
Audio In 1	two duplex XLR/¼"TRS jacks (balanced stereo)
Audio In 2	two ¼"TRS jacks (balanced stereo)
Audio Out	two ¼"TRS jacks (balanced stereo)
Mount	rack-mountable, four units fit on single 19" bezel
	optional: 5.25" drive bay mounting kit
Cable	6 feet

System Requirements

Processor	Pentium III 500 or better
	one free PCI slot
Memory	64 MByte or more
	CD/ROM drive for software installation
OS	Windows NT 4.0
	Windows 2000
Encoding SW	Windows Media Encoder (included) - supports multiple cards per system
	Real Networks RealPublisher G2 (included) - RealPublisher G2 Plus is required for installation of multiple cards

Audio	balanced inputs
	selectable input level: -10dB and +4dB
	8-bit and 16-bit mono or stereo
Sampling Rates	11, 22, and 44 kHz (multimedia)
	8, 16, 32, and 48 kHz (communications)
	full-duplex at all sampling rates
File Format	WAV

BNC Connectors	video 1 and 2
DVI Connector	video 1, 2, 3, and 4
	audio in 1 and 2 (balanced stereo)
	audio out (balanced stereo line out)
	I^2C control/data bus

Drivers	Windows NT 4.0
	Windows 2000



"Incredibly defined resolution...
During the reviewing of the product at the Winnov Booth, I was lost of words with the incredibly defined resolution of the picture which was captured live by the VideumII digitizing board. I quickly inquired about the board which was being used to capture the video I was viewing. Absolutely phenomenal!"

James B. Fisher, Editor in Chief Positive Image

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WINNOV
Visual Communications for the Internet

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