

VIDEO CATCHER FULL SPEED DVR BOARDS

SOFTWARE / HARDWARE MPEG4 COMPRESSION



High Lights:

- **Simultaneous Full Speed Live Video Display for All Channels on VGA & TV Out for Monitors:**
VGA monitors are limited to a few feet from the computer; now you can connect and view all video channels on a regular TV monitor with the same view as you would on your VGA screen. This means you can now also view all videos refreshing at full 30 fps each at a longer distance from the PC.
- **Separate Display Video Paths for Display & Recording:**
This allows you to set a fixed resolution for recording while you can display live videos on the VGA & TV monitors at whatever resolution that will fit the screen at their best resolution and quality possible.
- **On Screen Display:**
This feature allows display of time and text on VGA monitor.
- **All Video Channels Synchronized with Individual Decoders:**
Each video channel uses its own decoder to provide stable videos while frame rate is maximized.
- **Digital Video Filters and Enhancements:**
Video quality is further improved by using noise filter and edge enhancement that provides cleaner video for better video compression and improves object identification.
- **LED Video Indicators:**
An LED indicator is turned on when a valid video signal is connected. This indicates proper connection with a working camera. Again, the video detection is done in hardware. In addition, the LED will turn on at the recording frame rate.

Optional Features:

- **On Board Real Time Clock with Battery Backup as Option:**
Many CCTV systems suffer from clock slow downs due to heavy burden on the CPU with multiple DMA and Interrupt activities. These activities result in incorrect time stamp that can ruin the data as valid evidence in court. To solve this dilemma, using an on board real time clock guarantees correct times for as long as you own the equipment.
- **Programmable I/O:**
One can program the I/O adaptor to have up to 16 either input or output or a combination of both.
- **ADD-On Application Software:**
POS Application Software and PDA remote view Software is can be used with this system.

Performance:

VCFS-series:

No. Of Channels	Display Resolution	Display Speed Per Channel (NTSC/PAL)	Record Speed per Channel (NTSC / PAL)		
			360x240	720x240	720x480
4	1280x1024	30fps / 25fps	30fps / 25fps	15fps / 12.5fps	7.5fps / 6.25fps
8	1280x1024	30fps / 25fps	15fps / 12.5fps	7.5fps / 6.25fps	3.75fps / 3.12fps

VCFM-Series: (Hardware Compression)

No. Of Channels	Display Resolution	Display Speed Per Channel (NTSC/PAL)	Record Speed per Channel (NTSC / PAL)		
			360x240	720x240	720x480
4	1280x1024	30fps / 25fps	30fps / 25fps	15fps / 12.5fps	7.5fps / 6.25fps
8	1280x1024	30fps / 25fps	15fps / 12.5fps	7.5fps / 6.25fps	7.5fps / 6.25fps

Features and Specifications are subject to change without further notice.

Update: June 2007

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Integration:



Specifications:

GENERAL:	<ul style="list-style-type: none"> Video Compression: Mpeg4 Video Format: Supports NTSC or PAL 	<ul style="list-style-type: none"> Auto Detect: Video Loss, LED channel indicator, Auto Detect Video Format: NTSC/PAL.
VIDEO DISPLAY:	<ul style="list-style-type: none"> Video In: 1.0Vp-p Composite B/W and color video In/Out, BNC connector Display resolution: up to 720x480 resolution for display & record Always Real time Display at 30 fps per channel or up to 480fps for 16 channels 16-bit video quality 	<ul style="list-style-type: none"> Display in 1, 4, 9, 16 splits window and full screen Video Out: 4, 8, 16 Channels Up to two TV monitor out (split screen for all or selected channels) Image Control per camera Caption: On/Off
RECORDING:	<ul style="list-style-type: none"> Record Resolution: 340X240, 720X240, 720x480 Record Rate: adjustable recording Record Fame Size: 2KB per frame @ 360x240 Video Format: AVI Record Methods: Continuous, schedule, multiple zone motion detected, channel selectable, alarm activated (option) Text, Date and Time to 1/100 sec. Stamp on recording. 	<ul style="list-style-type: none"> Pre / Post Alarm Record: 10 frames pre-recording for Motion Detection or Alarm triggered. Time controlled post-alarm recording Network or remote enable recording Storage Space: requires 10-20 GB per day for continuous recording Data Storage Media: Selectable Destination Local or Network Mapped hard drives, Recycle when Full.
PLAYBACK & SEARCH:	<ul style="list-style-type: none"> Adjustable playback speed, frame-by-frame, reverse view. File Search: By video channel, Calendar, Date-time direct entry, Motion/area, Alarm, HDD 	<ul style="list-style-type: none"> Video Extractable into Clip Files viewable by Media Player. Single Image Capture and Print.
REMOTE:	<ul style="list-style-type: none"> Media: PSTN, TCP/IP Band Width Control: Adjustable frame rate, bit rate and resolution Transmitting speed up to 30 fps per channel 	<ul style="list-style-type: none"> Multiple Site Support: Remember and Connects to multiple IP address. Web Broadcasting: Customizable web pages for broadcasting Remote Controls: View, record, playback and search
SECURITY and WATCHDOG:	<ul style="list-style-type: none"> User friendly GUI with system information Multi level user accessibility Selectable channel permission Recording error reboot Lockable GUI 	<ul style="list-style-type: none"> Event Notification: Selectable e-mail or client PC notification by image or by message Connection log Event log
AUDIO:	<ul style="list-style-type: none"> 1 audio, channel selectable, recordable audio 	<ul style="list-style-type: none"> 2-way audio
PAN/TILT/ZOOM:	<ul style="list-style-type: none"> Pan/Tilt/Zoom: Supports multiple cameras, Canon VC-C4/R, or other camera with D-protocol. 	<ul style="list-style-type: none"> P/T/Z: Controlled locally and remotely for through RS-232, preset and touring for some cameras
OTHERS:	<ul style="list-style-type: none"> Size and weight: 7 x 4.25 in., 0.5 lb. 	<ul style="list-style-type: none"> Certification: CE, FCC

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Available Options:

REAL TIME CLOCK:	<ul style="list-style-type: none">• Hardware Real time clock: with built in battery backup
Alarm I/O DEVICE:	<ul style="list-style-type: none">• Alarm Input: Max .16 Input triggered recording by channel and by schedule (NO or NC type)• Alarm Output: Max. 16 output relay controls electronic devices
PDA:	<ul style="list-style-type: none">• PDA viewer
POS INTEGRATION:	<ul style="list-style-type: none">• POS software for OEM only

System Requirement:

	4 Channel	8 Channel	16 Channel
Operating System:	Windows 2000/XP/ Vista Home Premium or better		
Motherboard:	Intel Chipset compatible, FSB 400 or better	Intel Chipset compatible, FSB 533 or better	Intel Chipset compatible, FSB 533 or better
CPU:	Pentium 4, 3.0 GHz or better	Pentium D, 3.0 GHz or better	Pentium D, 3.0 GHz or better
RAM:	256 MB or better	512 MB or better	1GB or better
VGA:	VGA card or on board, with 2 Megabyte video memory, running at least with 800x600 resolution @32 bit colors, supports DirectX		
Hard Drive:	Partitioned: Allow 10 GB for operating software and Allow 10 to 20 GB per day for continuous recording		
CD-ROM:	CD-ROM for software installation		
LAN (optional):	10/100M BASE Ethernet card or integrated chip for Networking		
Sound System (optional):	Sound card, speaker, and microphone if audio is to be used.		
Monitor:	Minimum color setting: High Color (32 bit), 800x 600 minimum		

Ordering Information (Product Codes):

Software Compression:

VCFS-104 (4 channel)
VCFS-108 (8 channel)

Hardware Compression:

VCFM-216 (16 channel) – uses 2 x 8-channel cards

Packaging:

Capture Card
Cable with BNC connectors
Software on CD
Digital Manual on CD