

# PVS-640E Series

Advanced Industrial  
DVR System



## Features

- 8/16/24-channel video input
- MPEG-4 software compression/ H.264 (MPEG4-Part10) Hardware compression
- Resolution: CIF/half D1/Full D1
- Up to full D1 resolution in display and recording mode with half the number of channels (hardware compression)
- Embedded system design for the highest stability
- Multiple backup options: external USB HD/CD-RW/DVD-RW
- Multiple remote surveillance and control functions
- Industrial-grade system platform with high efficiency cooling fan system

## Introduction

PVS-640E series is the advanced industrial-grade digital video surveillance system designed to meet the requirements of modern security markets. PVS-640E series uses MJPEG/MPEG-4 software compression technology/ H.264 hardware compression technology, and provides configurable display/recording frame rates (from 7.5 fps to 30 fps) and configurable resolutions (from CIF to D1) to meet various user requirements. The system supports up to three hard disk drives and external storage devices can be added for extra video data storage capacity. Embedded system design is used to prevent virus attack and provide the highest stability. Easy installation, simple operation, high scalability, advanced functions and strong remote management support make PVS-640E series the right choice for any security-critical environment

## Specifications

Model	PVS-640-SB16E	PVS-640-SC16E	PVS-640-SD16E	PVS-640-SE16E	PVS-640-SB24E
Video Channels	16	16	16	16	24
Audio Channels	1	16	16	16	3
Display Speed (NTSC/PAL)	120/100	120/100	240/200	480/400	180
Recording Speed (NTSC/PAL)	120/100	120/100	CIF: 240/200 Half D1: 120/100 D1: 60/50	CIF: 480/400 Half D1: 240/200 D1: 120/100	180/150
Resolution	CIF/half D1/D1				
CPU	Optional (suggestion: LGA 775 Intel® Pentium® 4 3.0 GHz or above)				
RAM	Optional (suggestion: DDR2 533/667 GHz, 512 MB or above)				
HDD	Optional (support up to 3 SATA HDDs)				
IO	Optional				
Backup Device	Optional (external USB CD-RW/DVD-RW)				
WDT	Yes				
Operating System	Windows® XP embedded OS License (DOM)				
Storage Devices	1 x 3.5" and 3 x 5.25" IDE drive bay				
Power Supply	400 W power supply				
Form Factor	4U				
Dimensions(W/H/D)	482 x 177 x 480 mm (19" x 7" x 18.9")				

Model	PVS-640-HB8E	PVS-640-HB16E	PVS-640-HB32E	PVS-640-HC16E	PVS-640-HC32E
Video Channels	8	16	32	16	32
Audio Channels	8	16	32	8	16
Display Speed (NTSC/PAL)	240/200	480/400	960/800	480/400	960/800
Recording Speed (NTSC/PAL)	240/200	480/400	960/800	480/400	960/800
Resolution	CIF/half D1/D1 (up to 4 Ch @ D1)	CIF/half D1/D1 (up to 8 Ch @ D1)	CIF/half D1/D1 (up to 16 Ch @ D1)	CIF/half D1/D1 (up to 8 Ch @ D1)	CIF/half D1/D1 (up to 16 Ch @ D1)
CPU	Optional (suggestion: LGA 775 Intel Pentium 4 3.0 GHz or above)				
RAM	Optional (suggestion: DDR2 533/667 GHz 512 MB or above)				
HDD	Optional (support up to 3 SATA HDDs)				
IO	Optional				
Backup Device	Optional (external USB CD-RW/DVD-RW)				
Operating System	Windows XP embedded OS License (DOM)				
Storage Devices	1 x 3.5" and 3 x 5.25" IDE drive bay				
Power Supply	400 W power supply				
Form Factor	4U				
Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")				
Temperature	-5 ~ 50° C (32~104° F) (operating)				
Humidity	10 ~ 85% @ 40° C, non-condensing (operating)				

## System Function Description

Function	Specification	Description
Monitoring	Status Display	Status prompts and event lists of system login/logout, video signal loss, camera status, Web and remote connection, storage space, backup, sensors, and DO status
	eMap	eMap layout shows the locations of video cameras, sensors and alarm devices to enable you to control them and show their status simultaneously
	Event Log Display	Real-time display of the event list in the ViewLog
	Screen Split	Full screen, 1, 4, 9, 10, 13, 16, 17, and 24 sequencer with configurable time interval
	Cameras Layout	Assign a name to each camera in a chosen font, size and color
	Color Regulation	Adjustable hue, contrast, brightness, and saturation for preview, record and playback
Recording	Recording Resolutions	Selectable recording resolutions (CIF, half D1, D1) PAL: CIF (352 x 288), half D1 (704 x 288), D1 (704 x 576) / NTSC: CIF (352 x 240), half D1 (704 x 240), D1 (704 x 480)
	Compression Format	MPEG-4
	Recording Modes	Cyclic Recording, Non-cyclic Recording, Event Triggered Recording (motion, alarm), and Scheduled Recording (provides 7 recording modes for assigning private setup)
	Recording Quality	Adjustable recording quality
	Recording Frame	Adjustable recording frames for each camera and event
	Motion Detection	Motion Detection Multi-zone motion detection, adjustable motion detection sensitivity (100 degrees), alarm delay time and scheduling
	Audio Recording	Records up to 16 live audio channels depending on the product line
	Pre & Post Alarm Recording	Adjustable pre-alarm and post-alarm recording time (Pre-alarm recording: 10 seconds, post-alarm recording: 100 seconds)
	Video format	Adjustable Video format(NTSC, PAL)
	Record File Length	Adjustable file length for record searching segment
Search & Playback	Playback Speed	Single frame, 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, fast forward and rewind
	Playback Mode	Simultaneous playback of up to 16 or 24 camera feeds
	Search Mode	Search images by date, time, camera and event Calendar and time segment for day and time search Selectable event time, event type, and camera numbers for event search
	Smart Search	Search archives for incidents with the smart search list
	Image Transfer	Save images in BMP, JPG and AVI format Adjust picture brightness, contrast and font before saving and printing Select the day and time to save the video or use the bookmark time record list directly
	Bookmark	Ability to add several time-link bookmarks for searching
	Recording Time	Recording length varies depending on recording quality, resolution, mode and activity Auto-continuous recording: oldest recorded data will automatically be overwritten when hard drive is full
Data Storage	Backup	HDD, CD-RW, DVD-RW, or external USB HDD local storage devices Auto (schedulable) and Manual video file backup modes Built-in CD burning to burn auto-run CDs or DVDs (Needs Nero Burning ROM) Optional Backup Center software for remote backup
	Storage Path	Configurable storage path for each camera with configurable safe capacity limit for each storage space Choice of whether or not to automatically delete the oldest file in each storage path
Alarm Notification	Event Action Plan	Flexible and schedulable event actions with multiple actions per event source Event sources: motion detected, sensor triggered, video signal lost, login failed, system abnormal and backup disk full etc. Event actions: DO set/reset, PTZ control, e-mail notification, SMS notification, video file record, snapshot, phone/mobile voice notification, warning sound playback, video group sequence and execute chosen programs etc.
	E-mail and Phone Notification	E-mail notification with attached recorded files or snapshots on any event source E-mail and phone (with voice modem option) notification triggered by multiple event sources
	PTZ Activation	Supports PTZ presets for each alarm event
	Sensor and DO	Schedulable sensor and DO layout
Network Control (Power Center)	Remote Control	View live video via LAN or Internet Remote event search, playback, eMap and setup Connect up to 256 PVS-640-S series DVRs with the Power Center Central Monitoring System (optional)
	IE Remote Control	View live video, event lists, PTZ control and record, playback, configure, view the eMap and take snapshots remotely from an IE browser View 1, 4, 9, 10, 13, 16, 17 or 24 video feeds on one screen
	View by PDA	View live video on a Pocket PC 2003 or Windows Mobile 5.0 Pocket PC PDA
Operation	User Authority	Multi-level password protection and unlimited user accounts for logins
	Authority Setting	Assign camera access rights to each user (local and remote monitor, playback, PTZ control, DO and e-map control, total user network connections and time-outs, print and save function control etc.)
	Multitasking	Playback, record, backup, transmit and remote control simultaneously
	PTZ Control	Embedded pan, tilt and zoom control and preset functions Supports the most popular PTZ protocol
	Dynamic IP support	Built-in Web server that supports dynamic IP
	Language	English, Traditional Chinese
	Watermark	Save as picture with unchangeable digital watermark
Others	Windows lock Auto DVR login Auto reboot	

## IO Module Options

Part Number	I/O	Description
DIO-100	4DI/4DO	Fit with PVS-640-SB16/24, PVS-640-SR16
DIO-150	4DI/3DO	Fit with PVS-640-SP16

## Voice Modem Options

Part Number	Description
VMC-100	Voice modem card

## Ordering Information

Part Number	Video Capture Cards	Application Software Version
PVS-640-SB16-A1E	PV-800*1	PV-6000
PVS-640-SC16-A1E	PV-850*1	PV-6000
PVS-640-SD16-A1E	PV-900*1	PV-6000
PVS-640-SE16-A1E	PV-1000*1	PV-6000

Part Number	Video Capture Cards	Application Software Version
PVS-640-SB24-A1E	PV-800*1, PV-600*2	PV-6000
PVS-640-HB8-A1E	PV-2100*1	PV-6000
PVS-640-HB16-A1E	PV-2100*2	PV-6000
PVS-640-HB32-A1E	PV-2100*4	PV-6000
PVS-640-HC16-A1E	PV-2200*1	PV-6000