

CommPORT

COMM PORT TECHNOLOGIES INC – DVR SPECIFICATIONS AND DETAILS

INTRODUCTION

Comm Port's PC based DVR surveillance system is designed to process video, audio and data from local and remote network surveillance environment. It utilizes the most advanced software/hardware digital video compression and processing technologies to generate superior video quality. The product range starts from our entry level 250 to the flagship 2008. Up to 16 cameras can be connected and view live on a local monitor screen or through TCP/IP network. Video can be recorded based on specifiable schedules or motion detection. You can store video clips in HDD or any optical storage device by using Comm Port Backup System. Comm Port DVR also provides a hybrid solution with IP surveillance that would be integrated with existing analog cameras through the Video Server. The strong networking capability enables video/audio data to be transferred over the Internet to WebCam, 3G mobile phone, PDA or Comm Port's remote monitoring applications.

Comm Port's video surveillance software version 8.1 provides a collection of innovative features and supports forwarding hardware for high-end surveillance solutions. This topic is intended as a quick reference to new features and new hardware in this release.

Features include but not limited to object index by face detection, higher resolutions for widescreen monitors, touch screen support, and password expiration management. Also included are applications for visual automation, virtual I/O control, POS live view via WebCam, and mobile server support for Webcam. New hardware devices include: Video Server, the IP surveillance solution; 2004/2008, the hardware compression video capture card; Multi Quad, spot monitor TV output card; Wiegand Capture, the photo ID access control; and Data Capture V3E, the POS data capture with internet connection and parallel port.

VERSION V8.1 MAJOR FEATURES

- ▶ **Compatible with Windows Vista : version 8.12 or superior**
- ▶ **Higher Screen Resolutions:** The -System supports three options for higher screen resolution of 1920 x 1200, 1680 x 1050 and 1600 x 1200.
- ▶ **Face Detection for Object Index:** Face Detection is a new feature that captures human faces for fast video retrieval. It is used to identify human faces and record them as object index. It can handle a complex background and ignore any other body segment, objects, or background images.
- ▶ **Visual Automation:** Visual Automation can be used to operate electronic appliances by triggering the output device. This means that you can control an appliance (e.g. lights On/Off) by simply clicking its image on the monitor.
- ▶ **Password Expiration Management:** Password expiration management provides better security practices in surveillance system. System administrators can set expiration or disable a user's account. Features also include password edit, account edit and more.
- ▶ **Virtual I/O Control:** Virtual I/O control feature allows the DVR System to control the I/O devices that are connected with Video Server and Wiegand Capture. The virtual I/O has two types of control methods – via GUI control panel and a direction icon on the image. These devices can be controlled by using the control panel, or by a simple click on the direction icon displayed on the live view image.
- ▶ **Advanced Motion Detection:** Advanced Motion Detection allows multiple sensitivities setup within multiple regions. It is suitable for large-scale security monitoring and recording.
- ▶ **Timeline Search:** Timeline search enables users to locate a specific video recorded on a time frame via an easy-to-browse graphical tool. Timelines can display minutes and seconds, search and playback videos.
- ▶ **POS Live View on WebCam via IE Browser:** The WebCam server provided by Comm Port now supports POS live view via internet browser. The Webcam is a special remote monitoring application that allows live monitoring, video playback, PTZ and I/O control, camera zoom in and out, and system configuration via internet browser. In version 8.1, you can view live video with POS transaction data overlay. If a transaction is suspicious, you can playback the related video instantly to check the transaction or cardholder's

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information.

- ▶ **Touch Screen Support:** Touch Screen Support in the playback application ViewLog provides a touch screen panel to be used as an input device. You can point a finger on the touch screen panel to change screen divisions, switch to full screen and close the ViewLog screen.

VERSION 8.1 NEW HARDWARE

- ▶ **Video Server:** -System provides a hybrid solution of IP surveillance that would integrate with existing analog cameras through the Video Server. It has a user-friendly interface allowing web browser access and scalable monitoring over any distance via LANs or WANs. The Video Server contains a built-in alarm and event management software that enables several notification modes to react to abnormal events. You can remotely view video clips from 3GPP, Comm Port -MultiView, or via -Center V2 the central monitoring server.
- ▶ **2004 /-2008:** 2004 and 2008 are MPEG-4 / 2 hardware compression video capture cards. They are both real-time and can reach full D1 resolution in live and recorded video. The 2004 supports 4 channels of video and audio inputs and the 2008 supports 8 channels of video and audio inputs. Both types are equipped with TV output. They are recommended for high-profile security areas.
- ▶ **Multi Quad:** Multi Quad Card allows you to adopt a Spot Monitor or TV monitoring solution in your surveillance system. The Multi-Quad supports a main monitor displaying up to 16 live streaming video feeds, and 4 call monitors displaying separately with up to 4 camera feeds. When the camera detects motion or the burglar alarm is triggered, a live image pop-up will appear in the main or call monitors for alarm notification.
- ▶ **Wiegand Capture:** Wiegand Capture is a box device that can integrate your current Wiegand access control system into DVR systems manufactured by Comm Port. Through the -Wiegand Capture, the photo identification and text data from the access control can be easily combined on the video data from the DVR.
- ▶ **Data Capture V3E:** -Data Capture V3E is an innovated Ethernet version of the Data Capture Box allowing the integration of POS systems and DVR systems via LAN, WAN, or Internet. It captures information from POS, ATM, cashier system, or any other device providing text data, and overlays the information directly onto the live or recorded video images.

Note: all features in red are new (V8.12).



FULL FEATURE LIST

▶ Intelligent Recording & Playback

- Privacy Mask Protection
- Advanced Motion Detection
- Scene Change Detection
- Pre-Recording Using HDD
- Advanced Round-The-Clock Recording
- Instant Playback
- Time Merge From Different Clips

▶ WebCam - Remote Surveillance

- POS Live View via IE Browser
- 3G Mobile Phone Support (3GPP)
- SSL Encrypt Connection Support
- UPnP™ Support

▶ Advanced I/O Control

- Visual Automation
- Virtual I/O Control
- One-Click I/O Status Control
- Multiple I/O Types Selection
- Latch Trigger Feature

▶ Add-On Applications

- Password Expiration Management
- New Codecs: H264, MPEG4 ASP
- System Idle Protection
- Spot Monitor Controller
- POS Live Viewer
- Photo-ID Integration (GV-WT)
- Hard Disk Calculator

▶ Mobile Phone Application

- Support 4, 9, and 16 screen divisions
- PTZ control via directional buttons
- Channel switch via middle button
- Support for Nokia S60 3rd Edition

▶ Profile Management

- Selectable GUI Skin
- Custom Start-Up Splash Screen, Non-Active Video & Video Lost Screen
- Customizing System Features
- Easy Configuration Backup & Restore
- Custom DVR Setting's Template

▶ **Monitoring**

- Higher Screen Resolutions (1920 x 1200, 1680 x 1050 and 1600 x 1200)
- Touch Screen Support
- Full screen view
- Dual display operation for live monitoring and ViewLog playback on two monitors
- Screen pop-ups on motion or alarm activation
- Object counting
- Object tracking and zooming by PTZ domes
- Unattended and missing object detection
- Alarm on objects passing between predefined regions
- Digital watermark
- Video lost detection
- On screen video loss message
- Video de-interlace filter
- Higher screen resolution support of 1280 x 1024
- E-map
- Windows lockup
- Image size indicator
- Synchronized video and audio
- Backlight compensation
- Video auto gain controller
- Video scaling filter
- AVI repair utility
- System log
- Support 1,000 accounts for logins and passwords
- Multi level passwords protection
- Use Microsoft Remote Desktop to control another GV-System
- Twin DVR
- Embedded I/O devices control
- Embedded PTZ control panel
- Support dynamic IP address

▶ **Recording**

- Choice of recording at 15, 30, 60, 120, 240 and 480 fps
- Recording trigger by round-the-clock, motion detection, alarm and schedule
- Adjustable recording quality and frame rate for each camera
- Pre-motion and post-motion recording
- Supports Windows XP / Server 2003 burning software

▶ **Audio**

- 16 channels of live audio streaming and recording

▶ **Smart Search & Ease Playback**

- Timeline Search
- Face Detection for Object Index
- Object search
- Index search
- Object Index

- Thumbnail browse for ease of search for specific frames within video footage
- Export a video footage within a specified time range
- Synchronized audio and video for both live and playback modes
- Continues playback of set frames A to B
- EXE format export, playable with any third-party players
- AVI format export in multiple screens mode
- DVD format export for Hybrid Card format files
- Option for recycling the input-triggered events (Never recycle function)
- Backup, save AVI and BMP functions accessible in LAN ViewLog
- Automatic refresh of the video event list in LAN ViewLog

▶ **Notification**

- E-mail notification with attached video images on motion and alarm activation
- E-mail or telephone notification on video lost or I/O error
- Directs PTZ dome to a preset location on motion and alarm activation
- SMS alerts available in Main System, Center V2 and Vital Sign Monitor
- Alarms on objects that pass between predefined regions

▶ **Remote Monitoring Software**

- Remote View
- IP Multicast
- WebCam
- Remote Playback System
- G-View for WinCE PDA
- I-Mode

▶ **IT Technology**

- RSA Network Security
- Authentication Server: central control of password settings in local GV-DVRs

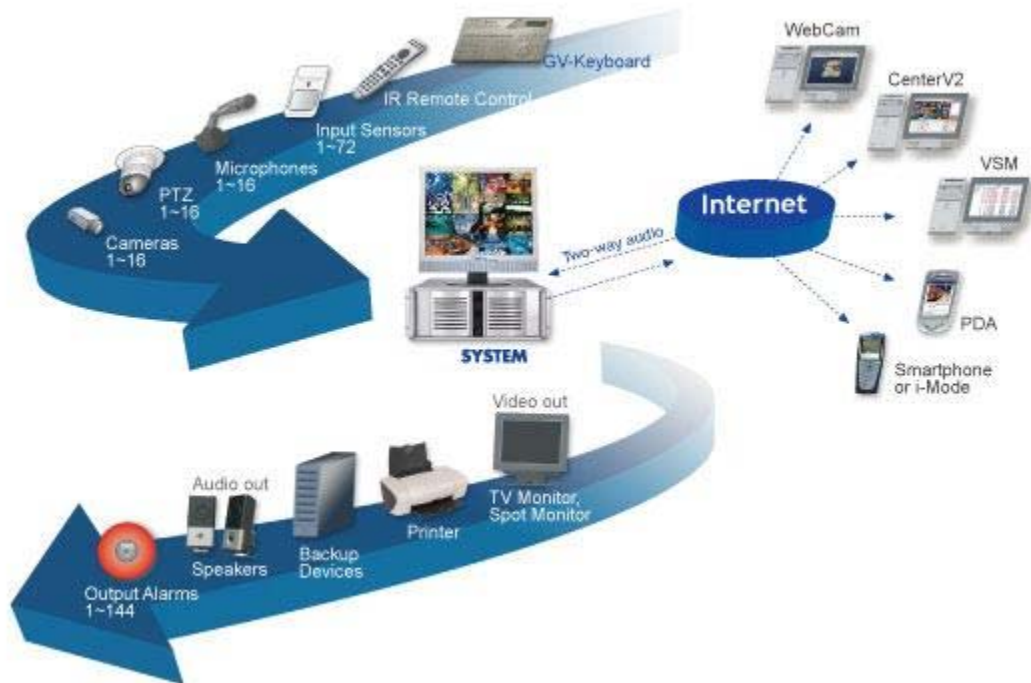
▶ **Central Monitoring Station (CMS)**

- Center V2
- Vital Sign Monitor
- Dispatch Server
- Control Center

▶ **Integration Solution**

- Point-Of-Sale
- License Plate Recognition

Note: all features in red are new (V8.12).

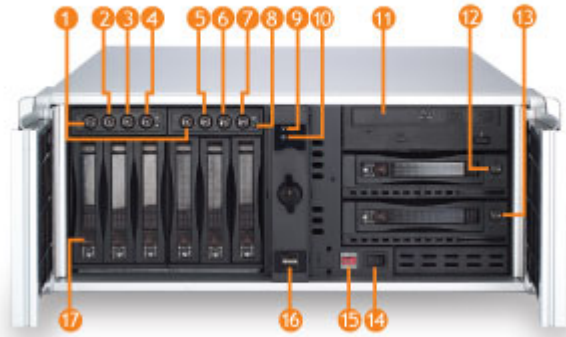


Remove, replace and remain redundant. The Hot Swap DVR System features a powerful data storage capacity. Thanks to hot swapping external drives, surveillance operations can stay alert 24/7. Depending on HDD size, the Hot Swap DVR System simultaneously allows a maximum storage capacity of 4 terabytes. Data storage and service operability become infinite.

Empowered by Comm Port Surveillance software, the Hot Swap DVR System provides all critical surveillance features in terms of video quality, compression and recording rate. Via its network ability, remote access and control of the system facilitate both management and maintenance. In addition compatibility with a wide range of Comm Port accessories will cater to any installation needs.

It's all you can store

Front View



- | | |
|--------------------------------|-----------------------------|
| 1. SATA Backplane Reset Switch | 10. Hard Drive Activity LED |
| 2. HDD 1 (Power Switch) | 11. DVD (\pm) RW Drive |
| 3. HDD 2 (Power Switch) | 12. HDD 7 (Power Switch) |
| 4. HDD 3 (Power Switch) | 13. HDD 8 (Power Switch) |
| 5. HDD 4 (Power Switch) | 14. Power Switch |
| 6. HDD 5 (Power Switch) | 15. Reset Button |
| 7. HDD 6 (Power Switch) | 16. USB Port x 2 |
| 8. Fan Sensor LED | 17. Safety Lock |
| 9. Power LED | |

Rear View



- | | |
|------------------------------|---|
| 1. AC Power Input (110-230V) | 10. Audio Speaker Out Port |
| 2. AC Power Switch | 11. Audio Line In Port |
| 3. PS/2 Mouse Input | 12. Audio Microphone In Port |
| 4. PS/2 Keyboard Input | 13. RJ-11 Port |
| 5. DB9 Serial Port | 14. RS-485 \pm for PTZ Control |
| 6. LPT Parallel Printer Port | 15. D-Type Video Port x 2 |
| 7. VGA Monitor Port | 16. RCA TV Output |
| 8. USB Port x 4 | 17. D-Type Audio Port x 2 |
| 9. Ethernet Port | 18. Alarm Output x 4 / Sensor Input x 4 |

SPECIFICATIONS

		2016	2008	1480	1240	1120
Drive Bay		4 / 6 / 8				
CPU		Intel Pentium 4 3.0GHz, 800MHz FSB or above				
RAM		2 GB Dual Channel	1 GB Dual Channel	512MB Dual Channel		
Video	Codec	S/W: MPEG4 / Mpeg4 (ASP) / H264		MPEG4 / Mpeg4 (ASP) / H264		
	Input	16 channels	8 channels			
Video Loop Output (Optional)		16 channels				
Audio	Compression	ADPCM / G.723				
	Input	16 channels	8 channels	16 channels	8/16 channels	16 channels
Display Frames (Max)		NTSC: 480 FPS / PAL: 400 FPS				
Recording Frames (NTSC / PAL)		480 / 400 (320 x 240)	240 / 200 (320 x 240)	480 / 400 (320 x 240)	240 / 200 (320 x 240)	120 / 100 (320 x 240)
Video Resolution	NTSC	720 x 480 / 720 x 480 De- interlace / 360 x 240		720 x 480 / 720 x 480 De-interlace / 640 x 480 / 640 x 480 De-interlace / 320 x 240		
	PAL	720 x 576 / 720 x 576 De- interlace / 360 x 288		720 x 576 / 720 x 576 De-interlace / 640 x 480 / 640 x 480 De-interlace / 320 x 240		
Backup Type		DVD+R (DL) / DVD-R (DL) / DVD+R / DVD+RW / DVD-R / DVD-RW / CD-R / CD- RW				
Recovery DVD		Automatic system rebuild				
Alarm	Sensor Input	4				
	Alarm Output	4				
Connector	Ethernet	RJ-45, 10 / 100 / 1000 Mbps				
	VGA Output	15-pin female D Sub				
	USB 2.0	Front: 2 Ports, Rear: 4 Ports				
Remote Access		TCP / IP				
Operating Temp		0 ~ 50 °C (32 ~ 122 °F)				
Humidity		0~80% RH (non-condensing)				
Dimensions (W x H x D)		483 x 178 x 528 (mm) - 19 x 7 x 21 (inch)				
Hardware Accessory		Keyboard, IR Remote Control				
Optional Product		Loop Through Card / IO 12-In Card / IO 12-Out Card / Multi Quad Card / IO / RELAY / Data Capture V3E / Hub / COM / DOM				
Language		English / French / German / Hebrew / Hungarian / Italian / Japanese / Polish / Portuguese (Brazil) / Russian / Spanish / Simplified Chinese / Traditional Chinese				