

OVS HVR 3.5.9 Specification Sheet

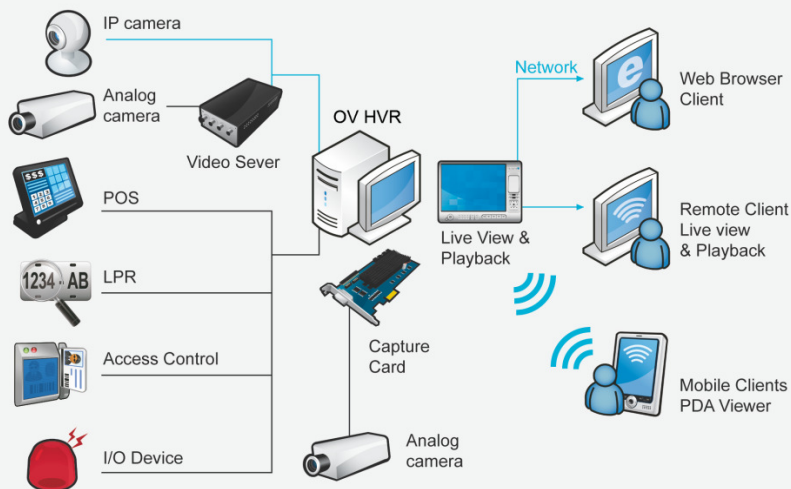
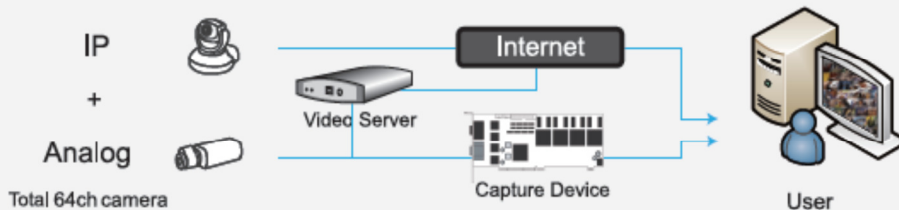


Introduction

OVS HVR solutions are high-end video surveillance recording system that support IP, analog, and HD-SDI cameras. It Allows users to easily migrate from analog to IP/Megapixel technology. The OV hybrid solution supports the widest array of IP camera's in the world. We also offer the leading capture card (H.264 D1 Real-time) for analog cameras available today.

OVS HVR's have 6 embedded video analytic functions that can trigger 10 instant responses. Our solutions offer, people/object counting, POS capabilities, mobile phone support/playback, and analytic search solutions. Our CMS supports all of our hybrid servers; this allows the user to connect to unlimited sites and cameras.

System Diagram



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Main Features

- Up to 64* channels per recorder/server
- Supports megapixel IP cameras
- Triple monitor display
- Instant Playback
- Supports auto backup
- POS, I/O, LPR and access control integration
- Integration with OV Solutions Central Management System
- On the edge motion integration
- Privacy Mask
- Boost Recording
- E-map
- Smart detection: 6 events with 10 responses
- Remote playback, remote backup, remote I/O control and remote desktop configuration
- Two-way audio
- Support 53 IP cameras brands: over 2000 models
- Windows Active Directory
- Supports digital watermark
- Unique GUI recording schedule
- Digital PTZ and multi-view
- Intelligent playback system with 5 video analytic searches
- Counting application
- Up to 128**CH remote live view
- Supports H.264, MPEG4 compression formats
- Supports 27 languages
- Supports trans-code and multiple stream profiles
- Supports Windows mobile™, iPhone™, iPad™, Android™ and Blackberry™ clients

* The maximum number of camera connections depends on the server's hardware configuration and the total bit rate of the IP cameras.

System, setting, management and integration:

1. **Open Platform:** Supports over 2000 IP camera models and ONVIF™, megapixel cameras and video servers from 53 manufacturers; supports H.264, MPEG-4, MJPEG video formats; integrates point of sale (POS) and I/O devices, license plate recognition and access control.
2. **Multi-site/Multi-server:** Each HVR server supports up to 64* channels via IP, HD-SDI, video encoders, and analog cameras, all managed by either OVS remote client, CMS or Internet Explorer™ * The maximum number of camera connections depends on the server's hardware and bitrate.
3. **Disk Load Balance:** OVS-HVR improves recording performance to utilize several disks and dynamically distributes the video loads among the disks to improve throughput.
4. **Multiple Video Clients:** OVS-HVR server can stream video to multiple Remote Live Viewers, web clients and mobile clients simultaneously.
5. **Intelligent Video Analytics:** OV Solutions IVA supports 6 types of video analytics including general motion, missing object, camera occlusion, foreign object, focus lost and signal lost. Each IVA alarm can trigger up to 10 unique notifications.
6. **Intelligent PTZ:** Joystick support on PTZ cameras and software enabled digital PTZ function are both available in OVS-HVR. Preset points and patrol functions are also available on many camera models.
7. **GUI Recording Schedule:** Intuitive GUI featuring continuous recording, motion recording and 6 unique event recording modes. Users can define the recording schedule for each camera on a day by day basis.
8. **Triple Monitor:** Up to 64* channels of live view video can be displayed per monitor. Monitor 1 and monitor 2 can both display live video or act as alarm monitor while the 3rd monitor can be used for playback. * The maximum number of camera connections depends on the server's hardware configuration and the total bit rate of the IP cameras.
9. **Transcoding:** Record and display live video at different frame rates and resolutions.
10. **Boosting Recording:** Boost recording quality on motion and other events to optimize recording storage.
11. **Advanced E-Map:** Capability to import custom image file, place the cameras and I/O on the map to indicate where events are being triggered with a convenient video preview window.
12. **User-Friendly Interface:** recording schedule, camera drag & drop, I/O control menu and PTZ control menu.
13. **Automatic Camera Model Detection:** automatically search for all available IP cameras within the network (camera must support UPnP protocol). For cameras that don't support UPnP, users can manually add the IP camera. The auto detection function will help the user to find the brand and model of the camera after specifying its IP address.
14. **Counting Application:** intelligent 2-way (in and out) counting of object, people and traffic.
15. **User Authority Management:** Support unlimited number of users with detailed and fully customizable user privilege on each user.
16. **Windows® Active Directory:** Synchronized with Windows® Active Directory server to manage user

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privilege and control of camera action.

17. **Network Flow Monitor:** Data streaming bandwidth of each remote client connection to the HVR server can be monitored and blocked if the flow rate is too high.
18. **Auto Recycle:** Automatically recycle recording files when the storage is full. Separate recycle schedule between recordings and varies log files.
19. **SDK Integration Support:** Open SDK for integration with third-party systems such as access control, automation, burglar alarm, video analytics and others.
20. **Upgrade notification:** Get notifications from OV Solutions site to download the latest version.

Live Display:

1. **Multi-view:** OVS-HVR can duplicate the same live view video onto multiple channels and digitally zoom in to see the details of different spots on cloned channels without losing the original live view video.
2. **Intelligent PTZ:** Joystick support on PTZ cameras and software enabled digital PTZ function are both available in OVS-HVR. Preset points and patrol functions are also available on many camera models.
3. **Monitor Resolution:** Supports 1024x768, 1200x900, 1280x1024, 1440x900, 1600x1200, 1680x1050, 1920x1080, 1920x1200 screen resolutions
4. **Advanced E-Map:** Freedom to import custom image file, place the cameras and I/O on the map to indicate where events are getting triggered with a convenient video preview window.
5. **Bandwidth Monitor:** Monitor and display the bandwidth usage of individual cameras and remote viewing clients.
6. **Two-way Audio:** Listen/record audio from camera's microphone. Talk to IP camera's speaker.
7. **Instant Playback:** Allow to play the last few minutes of any live video channel on Main Console and Remote Live View
8. **Privacy Mask:** Protect privacy of the sensitive image by blocking out sensitive areas from view and covering the areas with black boxes in live, playback and exported video.

Playback, Search, Export and Secure data:

1. **Post-Recording Processing:** Search for 5 types of different analytic events, digital PTZ and video enhancement tool are all available in playback.
2. **Multi-Channel Playback:** Play up to 16 channels of recorded video simultaneously both locally and remotely. Forward playback at 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x.
3. **Video Enhancement:** Fine tune the image's visibility, sharpen, brightness, contrast or even grey scale.
4. **Intelligent Search:** Search for 5 different events (general motion, missing object, foreign object, camera occlusion and signal lost) in recorded files with the date, time and log file.
5. **Video Export:** Take a snapshot of the recording in JPEG/BMP format or export a section of the video in "AVI" and "ASF" format.
6. **Auto and Manual Backup:** Schedule or manual backup the recording for archiving purposes or backup the recording with an embedded player to watch at a separate location. HVR supports both local and remote backup to local HD, CD, and DVD.
7. **Log data:** Unusual event, system log, counting application, POS log and export and backup can export to "xls" or "txt" file
8. **Watermark:** Protect your original recording from alternation with our watermark verification tool.
9. **DBTool:** Reconstruct, repair or relocate the recordings on the local drive, or external drive.

Remote operations:

1. **Multiple Live View Display:** Streaming live video from multiple OV Solutions servers (HVR, DVR, and NDVR) simultaneously. Dual monitor support with up to 128 channels per monitor (64* channels per monitor). * The maximum number of camera connections depends on the server's hardware configuration and the total bit rate of the IP cameras.
2. **Multichannel Playback/Display:** Remote playback of 16 channels recording from any one of the OV Solutions servers (HVR, DVR, and NDVR).
3. **Intelligent PTZ:** Joystick support on PTZ cameras and software enabled digital PTZ function are both available in OVS-HVR. Preset points and patrol functions are also available on many camera models.
4. **I/O Event Control:** Easy to use input and output control panel to remotely trigger digital outputs and monitor input status.
5. **E-Map:** A map view of each camera and I/O device is located with a convenient preview window.
6. **Two-way Audio:** Listen and record audio from any camera's microphone. Talk via the IP camera's speaker.

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- Remote Backup:** Backup any video to .DAT format with the OV Solutions player attached. This makes for easy achieve and playback.
Web-browser (client): Display up to 64 channels of live video or 16 channels of playback in I.E. from any single OV Solutions server. Support direct login information (user/pass) in a URL address
- PDA Viewer:** Up to 16 channel snapshot or 1 channel live display; PTZ and I/O control.
- Mobile Client:** Supports iPhone, iPad, Android, and Blackberry clients to view live video and control PTZ.

Remote Tools:

- Central Management System:** Ultimate central monitoring solution for large scale projects and multiple sites. Fully compatible with all OV Solutions servers (HVR, DVR, NDVR and HVRmini).
- Remote Desktop Service:** Remote desktop application built into the OVS allows the user to completely control and configure the HVR software and Operating System.
- Mobile Devices:** OVS-HVR supports mobile devices to stream live video.

External Device:

- Point of Sale (POS):** OV Solutions Point of Sales system works on the OVS-HVR by overlaying the transaction text from cash registers onto the live video channels. All POS recordings are search-able.
- External I/O Capacity:** Please refer to our I/O box section: C24/C26/C28 for more details.
- Panomorph PTZ Camera (360°):** Integrates ImmerVision Lens (IMV1-1/3 Lens supported) to view Live, record and playback the complete 360x180 FOV. Users can easy to detect, track and analyze throughout the entire area.
- 3rd Party Integration:** Metadata Plugin technology supports 3rd party software including license plate recognition, access control, process control, time and attendance. The Metadata Plugin allows users to manage metadata by recording real time information in databases which can describe events and link to video and audio. A smart search filtering tool allows for quick retrieval of information and recorded video.

Smart Guard:

- Smart detection** of 6 camera events, 14 different user-defined POS events, digital input events and 4 system events.

A. Camera Events:

• General Motion (Multi sensitivity)	• Focus Lost
• Edge Motion	• Camera Occlusion
• Missing Object	• Signal Lost
• Foreign Object	• Digital Input Event

B. System Event:

• System alarm on Full Disk Space	• System alarm on Resource Depleted (CPU loading)
• System alarm on System Health Unusual (CPU temperature)	• System alarm on Network Congestion

- Instant alarm notification** is the fastest and most cost efficient way to automatically respond to any smart detection event.

A. 10 automatic instant alarm responses:

• On Screen Display	• Signal Digital Output
• Play Sound	• Send a SMS message
• Send E-mail	• Send to Central Server
• Phone Call	• Send Snapshot to FTP
• PTZ Preset Go	• Popup E-Map on Event

- Schedule-based:** Users can define the smart guard schedule for each event on a day by day basis

Supported Languages

English	Chinese (Simplified)	Chinese (Traditional)	Czech	Danish
Finnish	French	German	Greek	Hebrew
Italian	Japanese	Korean	Norway	Polish
Portuguese(Brazil)	Portuguese(Portugal)	Russian	Serbian	Slovak

