

Video Management



Key Features

- Unlimited Scalability and Integration
- Comprehensive Management and Administration
- Advanced Video Investigation Tools
- Third Party Interoperability
- Secure and Reliable Performance
- Fully Integrated Video Analytics

ITEM NUMBERS

SWR-VMSB-4	4-Channel Video Management Software Bundle
SWR-IPCAM-01	IP Camera Software License (1 channel)



Comprehensive Camera Support

Fully hybrid operation, supports IP and analog cameras
 Supports ONVIF and PSIA and over 100 third party devices
 Supports all Aventura brand cameras and encoders
 Auto-detect and add IP cameras
 View and edit camera settings
 User configurable OSD (on-screen display)
 Multi-region motion and masking
 Supports all major codecs, including JPEG 2000, MPEG, MPEG2, MPEG4, MJPEG, H.264 and H.265
 Supports IP cameras up to 20 megapixels
 Unlimited number of simultaneous camera connections
 Supports camera embedded analytics, storage and alarms.

Dynamic Video Monitoring

Supports multi-streaming and multi-casting at independent bit rates, frame rate and resolutions
 Monitor from thick client, thin client and mobile apps
 Create custom display groups from any camera on system
 View up to 64 cameras per display group
 Circulate cameras within display groups
 Monitor multiple display groups on up to 8 monitors per client
 Monitor and combine camera display groups from any server on a single client
 Display cameras, alarms and other integrated devices on multi-layered maps
 Create video and notification alarms from motion, contacts and integrated systems
 Control PTZ cameras and ePTZ function with GUI, mouse or joystick
 Instant playback, on-demand, in live view window
 View multiple streams from same camera or server at variable rates

Recording, playback and Investigation Features

Record by motion, sensor, event, alarm, date, time or other rules
 Dynamic archiving tools configures storage by camera, group, server, date, time and storage rules
 Record at reduced frame rate between motion or events
 Multiple storage rules including auto rewrite, stop record, start record, specify record period, etc.
 Export video clips in proprietary format with full-featured freeware-player
 Export video clips in open source formats including .AVI and .WMV
 Schedule video back-up to external devices and network drives
 Operator manual recording override feature
 Advanced graphic investigation and playback utility
 Graphic recording search with user definable parameters
 Search, playback and export synchronized video in groups of up to 16 cameras
 User friendly graphic video scrubbing, forward, reverse, pause and speed controls
 Capture screen shots from live video and playback
 Smart search by motion and region
 Slide show search tool for rapid investigation results

Codecs Supported:	H.265, H.264, MPEG4, MPEG2, MPEG, MJPEG, JPEG2000
CPU:	Intel® Core2 Duo (Intel® Core i3 recommended)
RAM:	Minimum 1GB (2 GB or more recommended)
OS:	Microsoft Windows XP Professional (32 bit or 64 bit**), Windows Server 2003 (32 bit or 64 bit**), Windows Server 2008 (32 bit or 64 bit**), Windows Vista Business/Enterprise/Ultimate (32 bit or 64 bit**) and Windows 7 Professional/Enterprise/Ultimate (32 bit or 64 bit**), Windows Server 2012 (32 bit or 64 bit**)
Graphics Card:	AGP or PCI-Express, minimum 1024 x 768, 16 bit colors
Network:	100Mbps Ethernet (1,000 Mbps Ethernet or faster recommended for NVR systems)
Hard disk type:	E-IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster)
Hard disk space:	Minimum 100 Gbyte free (more may be required dependant on record settings and number of cameras)
Software:	Microsoft .NET 3.5 Framework and DirectX 9.0 or newer

** Running as a 32 bit application
 * The latest product information / specification can be found at www.aventuracctv.com

* Data recorded on an SD memory card may be lost or damaged by data access during power-off, mechanical shock, memory card detachment, or other operations. Data loss or damage can also occur when a memory card reaches end of life, which varies according to operational conditions. No guarantee is given against damage (including passive damage).

User, Administration and Management Features

Central management software provides global watchdog, alarm and user management
 Monitors and alerts health status of cameras, servers and networks
 Audit and evaluate system and user performance from searchable database for all users, events and devices
 Create dispatch rules for operator response to alarms and events
 Fully integrated system and operator logging
 Rights management at VMS and CMS level and integration with Active Directory and LDAP
 Configure recording quality for bit rate, frame rate and resolution for all devices
 Configure user rights for one or more operators and populate globally
 Supports consolidated management and administration
 On-screen, user-friendly operators manual

Sensors, Alarms and Integration

Supports bi-directional alarm interface
 Supports mechanical, digital, motion and analytics alarms
 Alarm data fully integrated with video data (search video by alarm)
 Supports alarm display on map with camera (video) call-up

Video Analytics (objects, license plates and face recognition)

Fully integrated intelligent video analytics (optional)
 All Analytics monitoring functions operate within the Vantage GUI
 All analytics events are recorded to SQL video database and are searchable and exportable
 Create user defined alarms and operator rules by analytics events
 Apply unlimited rules, per channel, for video analytics
 Detect, track, record and alarm multiple behaviors including, intrusion, loitering, left object, removed object and wrong direction.
 Count people, vehicles and other objects by classification
 Detect, record, alarm and search license plates and other character based objects
 Detect, record, alarm and search by recognized faces.

System and Security Features

One, consolidated, central management interface for all devices and users regardless of scale
 Unlimited devices, servers, clients and users permitted
 SQL database supports custom integration and user data management
 Multiples architectures supported including centralized, federated and hybrid
 Hot redundant, hot spare and failover servers supported
 SAN, NAS and edge storage fully supported
 Supports Active Directory and LDAP
 SDK available with full factory support for bi-directional integration
 Custom software development for special integration and private labeling
 Supports AES 256bit encryption, CRC32, electronic watermarking and custom graphic watermarking
 IA certified with U.S. Department of Defense
 FIPS and USGCB



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