

Mirasys V9: Deep Vision Data VMS

With the feature-rich Mirasys Video Management System (VMS) Enterprise you can easily fulfill the requirements of various customer types – especially designed for large size networked installations from a handful of servers to a large size system with hundreds of sites. The system supports thousands of cameras in one centrally managed environment. All cameras can be managed as a single system independent of location. The user interface is available in 22 languages.

HIGHLIGHTS

EXTREME SCALABILITY AND PERFORMANCE

Mirasys VMS allows an unlimited amount of VMS Servers and an unlimited number of cameras per server in one centrally managed network domain. It is possible to configure an unlimited number of network domains.

SIMPLE AND INTUITIVE USER EXPERIENCE

Access, use and administer the system with easy-to-use, highly configurable user interface.

EASY AND SMOOTH CONNECTIVITY

Mirasys VMS supports over 8.000 IP camera models plus analog cameras from all major camera manufacturers. The open platform architecture allows integrations to a wide variety of systems from camera edge analytics to 3rd party systems such as Access Control systems and Intrusion & Fire Alarm systems.

EFFICIENT INSTALLATION AND CONFIGURATION

Less onsite visits are needed due to centralized update possibilities. Configurations can be made using data files. User profiles are easy to create, manage and modify. We also deliver pre-installed and tested systems on servers to save customers' time.

SAFE AND RELIABLE

Comprehensive reliability functionality including hot-standby Failover Servers with grouping, duplicated Master Servers, centralized databases, TruCast direct live-streaming from cameras to clients and camera audit report for verifying the installation quality is on 100% level.

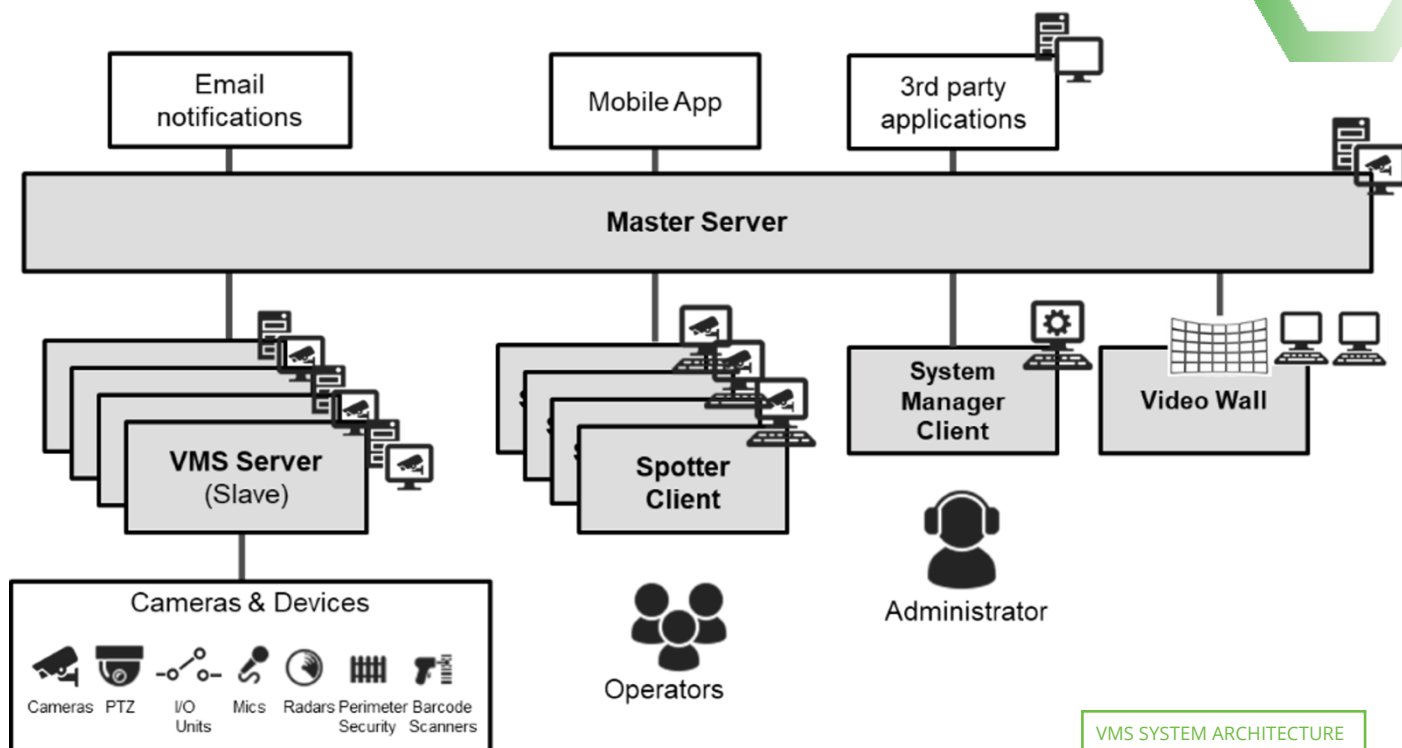
SEPTEMBER 2020 / VMS DATASHEET

MIRASYS Ltd - CICD, VAISALANTIE 2-8, 02130 ESPOO, FINLAND | +358 9 2533 3300

INFO@MIRASYS.COM | WWW.MIRASYS.COM

MIRASYS
DEEP VISION DATA COMPANY





FEATURES & SPECIFICATIONS

Max. Servers	<ul style="list-style-type: none"> Unlimited 	Max. Camera channels	<ul style="list-style-type: none"> Unlimited (L)
Licensing model	<ul style="list-style-type: none"> Perpetual (Server stored license) License per camera channel (L) 	Audio	<ul style="list-style-type: none"> 2-way IP audio Max. 2 x Camera channels
Text data channels	<ul style="list-style-type: none"> 64 channels / server (unlimited max) 	Max. users	<ul style="list-style-type: none"> 5 in the standard license Expandable to unlimited (L)
Service and Maintenance Agreement (SMA)	<ul style="list-style-type: none"> Available (L) 	Video analytics	<ul style="list-style-type: none"> Camera Edge Analytics: support via text channel In-built: Video Content Analytics (VCA): Object presence, enter, exit, appeared, disappear, stop, dwell, direction, speed, Tailgating, Abandoned, Removed, Counting, Tamper detection (L)
OS Support	<ul style="list-style-type: none"> Windows 10 IoT / Pro Windows Server 2012 R2, 2016, 2019 	Processor support	<ul style="list-style-type: none"> Intel CPUs GPU (NVIDIA)
Codecs	<ul style="list-style-type: none"> MJPEG, MPEG-4, H.264, H.265/HEVC 	Videowall	<ul style="list-style-type: none"> Multimonitor option for the operator console Video matrix controlled from separate PC (L)
Resolutions	<ul style="list-style-type: none"> Up to and including UHD/4K-resolutions (HW dependent) 	Frame rate	<ul style="list-style-type: none"> Up to 60 frames per second
Streaming modes	<ul style="list-style-type: none"> Unicast: camera-VMS-workstation Unicast: camera - workstation (Trucast) Multicast: one stream from the camera to multiple recipients Multistream: many (resolution) streams from a camera 	Recording triggers	<ul style="list-style-type: none"> Continuous, Motion- or no motion-based recording Event (alarm)-triggered recording Camera pre-and post-recording from Motion Calendar and time of day based

(L) License cost



FEATURES & SPECIFICATIONS			
Data Export	<ul style="list-style-type: none"> • Still: .JPF, .BMP, .GIF, .TIFF, .PNG • Video: .ASF, .AVI, .MATROSKA, .SEF • Watermarking: .AVI, .SEF • Password protection: .SEF • Blurring & privacy masks: .SEF • Storyboard: Structured multi-clip export with comments • Image overlay 	Data Storage	<ul style="list-style-type: none"> • No built-in storage limits • Large and different sized drives HDDs • Network storage (NAS, SAN) • Dynamic expandability • Scheduled archiving • Camera edge storage support
Alarm triggers	<ul style="list-style-type: none"> • Motion / no Motion • No signal in the camera • Camera Metadata • Audio high/low • Text data • Digital input • Virtual digital input (Loopback I/O) 	Alarm Triggered actions	<ul style="list-style-type: none"> • Email • Camera Pre-and Post trigger recording • Audio recording • Motion detection mask setting • Increase frame-rate or resolution • Move PTZ to pre-set/tour • Alarm popup, Disable further alarms • Digital output
End-user experience	<ul style="list-style-type: none"> • 22 languages supported • Live view, playback • Scalable Activity (time) bar: (records, bookmarks, alarms) • Map • Highly configurable grid layout • Virtual cameras (multiple views from one camera) • Mixed mode (playback & live view from the same camera) • Image tools (B&W, colour invert, Contrast, Edge sharpen, flip, Mirror, universal lense de-warp) • Tabs • Full-screen image maximize • Device tree <ul style="list-style-type: none"> ◦ Devices (Cameras, I/Os, Audio devices) ◦ Layouts ◦ Plugins ◦ Search tools ◦ Camera carousel ◦ Alarm tools (alarm list, alarm popups) • Highly customizable user interface <ul style="list-style-type: none"> ◦ Admin: User permission-based ◦ End-user: Personally configurable • In-built help document 	Camera features	PTZ cameras <ul style="list-style-type: none"> • UI- (mouse) and Joystick based control • Pan, Tilt, Zoom • Direct X support <ul style="list-style-type: none"> ◦ User configuration for new joystick models ◦ Shareable configurations ◦ Multiple ready-made configurations • Configurable camera tours • Alarm triggerable tours & positions • Pre-set management • Virtual PTZ control • VCA event control Fixed cameras <ul style="list-style-type: none"> • Masking support • Edge storage support • Lense and motor control • Setting change on alarm • Camera motion detection • Metadata extraction
Search	<ul style="list-style-type: none"> • Search by timestamp • Motion search with three different algorithm • Thumbnail video history search • Text data search • Watchdog event history search • Audit trail, Alarms (separate reporting tool) • Timeline activity overview • Bookmark search 	Digital input/output drivers	<ul style="list-style-type: none"> • Camera digital input/output • External Digital output module • HTTP, TCP, UDP output • External application call and message sending • Virtual input/output • Logical input/output for rule configuration and timers
Failover servers	<ul style="list-style-type: none"> • Failover time configuration • Hot standby • Failover groups 	Data archiving	<ul style="list-style-type: none"> • Archiving of recorded video data to local or network drive • Manual or scheduled functionality • Fast processing for blocks of 1-hour minimum
Spotter plugins	<ul style="list-style-type: none"> • Web browser plugin with different emulations • Activity map (L) • Failover groups • Profile-based maps • Camera carousel • Camera audit • System diagnostics • Monitor manager • VideoWall (L) 	Web applications	<ul style="list-style-type: none"> • List management application (LMA) for ANPR, barcode, RFID, access control tags, biometric data, ... • Audit trail reporting (Grafana) • Occupancy dashboard (Grafana) • Alarm reports (Grafana) • Browser client (Java) • HTML5 client (L)

(L) License cost



FEATURES & SPECIFICATIONS			
3rd party Integrations	<ul style="list-style-type: none"> • Ready integrations to multiple 3rd party systems • UVPs, PSIMs, intrusion detection, access controls • Radar integrations • DJI drone interface • Point of sales integrations • Facility management integrations 	Integration interfaces	<ul style="list-style-type: none"> • External I/O unit control • Text channel inputs – (TCP, UDP, HTTP, RTSP/ RTP, RS-232) • Gateway connector C# SDK (L) • Configurable & multi-instance web browser plugin • Spotter plugin SDK (Embedded end-user applications) • Watchdog and system event provider • MS SQL database access to system events
Privacy	<ul style="list-style-type: none"> • Highly detailed permission control per user- & camera groups • Privacy masks (in-camera, in VMS) • Facial blurring (online, offline, export) • Movement blurring (online, offline, export) 	Logging	<ul style="list-style-type: none"> • Full logs per system component • User audit logs • System monitoring (Watchdog) event logs • External logging interfaces
Camera support	<ul style="list-style-type: none"> • Over 2500 individually tested models. • Over 8000 individual models with native driver • Onvif and PSIA compatible • Analogue encoders • PTZ control • 360 deg camera dewarping • RTSP and HTTP capture • MJPEG, MPEG-4, H.264, H.265/HEVC • AVI file capture • Virtual camera support • Selected NVRs • Multi lens cameras • Fish-eye lens camera support 	Cybersecurity	<ul style="list-style-type: none"> • 2-factor authentication (mobile phone-based, online and offline) • An authentic export mechanism for evidence usage • Encryption of stream and control commands • Automatic firewall and router configuration • Two password authentication • Active Directory integration possibility via LDAP • Network anomaly alarming

(L) License cost