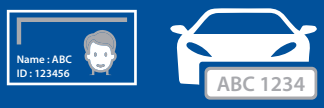
macula®

VIDEO MANAGEMENT SYSTEM SOFTWARE

Macula's key integral elements work together to create a cohesive and up-to-date piece of VMS software. When it comes to surveillance, every detail is important, so everything will be taken care of.

64 bit core

Use the full power of your hardware with Macula



Powerful Analytics Tools

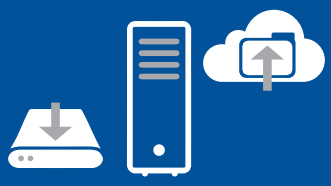
Applications for advanced video analytics, along with face and license plate recognition

Smart Logic

Always be in control: automate your video surveillance process with the Smart Logic Event and Action

Failover

Continuous monitoring of the status of all servers and failover management from the central server



Archive replication

Advanced mirror recording with scheduled transfers ensures the safety of your data at all times

Integrations and API

Combining your video surveillance with third-party software integration possibilities that Macula offers

VMS software with Service Support

Trueblue® experience

Delivering an outstanding quality performance, this video management software backed by TrueBlue Professional Service, support inclusive phone support, email support and remote support, all inclusive without additional payment. Besides, it is also supports over 4000 cameras from major vendors and is ideal for use at all small medium enterprise, commercial building and city wide surveillance

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Professional

VIDEO MANAGEMENT SYSTEM SOFTWARE

With all the features of the Macula VMS core, it is proven to be a high-quality and reliable software, Macula Professional adds intuitive user interface and better functionality. Together with advanced features, it uses virtually any stream resolutions as well as has no software limitation in remote connections from client and mobile.

Essentially Effective

Macula VMS is fast, you enjoy quick live streaming, speedy video archive search and playback. Importantly it's backed by TrueBlue Support Service.

Video Content Analysis

Exploit the full potential of your video surveillance system with video content analysis. Not only does it improve the functionality of your surveillance, the ability to analyse large amounts of data to determine a specific pattern for the exact task, it also increases security and safety and is useful for many other areas of your enterprise, like HR and marketing.

Integrations and API

Macula offers customisable integration with other software systems in the form of a software development kit (SDK), and HTTP API.

Web Access

With Macula, you get permanent access to live streaming and archive video through your web browser.

Edge Recording

Synchronise all your data with IP device storage with ONVIF-G Profile. By doing this, even if the network connection with any camera is lost, your data will still be recorded by the camera. It will be transferred in full to your server as soon as the network.

Maps

Complete examination of the entire installation of cameras, providing an immediate visual verification. All the alerts are integrated with the maps and can be set up so that it can be viewed on the overview as well — you will be able to immediately identify the location of the alarm event.

Mobile Applications

Turn your mobile device into a surveillance camera. Access all your live and archived streams at your hand. Trigger action like I/O via user defined buttons.

Smart Logic Event and Action Manager

Specify your desired outcome of your video surveillance system's operation. Determine how software reacts to any event caught on camera and how it turns them into an automated process. Send emails, activate DI/DO, interact with any other software or just bring the attention of the operator to the camera that requires their immediate action. The functionality can be used not just for a single event, but a set of sequenced events to get rid of false alarms and improve the efficiency of your surveillance system.

Supported Technologies

ONVIF Profile S & G | Android | iOS | Windows | Chromecast | MacOS X | Codec | HTML5

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Enterprise

VIDEO MANAGEMENT SYSTEM SOFTWARE

Macula Enterprise is a complete surveillance ecosystem solutions for enterprises of any size, even those distributed across multiple sites. The software was designed with the core of GSF HDCCTV. Experience, with quality been proven over the last decade. This new modern software,Macula, is not only offering 64-bit speed and all the necessary tools for setting up an absolute situational alertness system aimed to respond quickly to events, but also introduces a central server governance hierarchy of all the components.

Video Wall

Get the most out of your video wall in the control room. Macula Video Wall offers improved configuration and functionality, as well as the ability to easily manage large-display installations. It is vital for operating large-scale video surveillance systems, especially where the ability to easily examine the area and quickly react to alarm events is essential.

Failover

Automated recovery of your system in the event of a sudden server failure. Macula Enterprise carefully tracks operations of all servers, and, in case any of the servers has failed, it quickly activates a spare server to perform the actions that the malfunction- ing server was performing prior to failing.

Advanced Health Monitoring

Keep your finger on the pulse of all of your hardware, minimising the risk of inconvenient surprises, and control the state of the whole video surveillance system.

Multicast

Enjoy full use of the multicast environment, transmitting to different destination devices (both servers and cameras). The functionality allows for fully integrated work with large enterprise environments using Active Directory or LDAP technology.

Organisation Hierarchy

The functionality allows the construction of a more structured hierarchy of system rights and privileges among users within an organisation. The group's administrator (or sub-admin) rights are also specific for each group, thus valid only for the chosen scope of cameras and servers.

Archive replication

Make your local recording server into a buffer server. In large enterprises, this allows for convenient local usage and scheduled or constant data transfer to Central Data Centre, whenever the network is available.

Supported Technologies

ONVIF Profile S & G	Android	iOS	Windows	Chromecast	MacOS X	Codec	HTML5

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Add-on Apps

VIDEO MANAGEMENT SYSTEM SOFTWARE

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License Plate Recognition

Macula LPR is application for detecting, recognising and registering vehicle license plates

It offers a very high level of reading reliability, an intuitive installation process and great usability characteristics. The application is ideally suited for vehicle access and traffic control, as well as enforcement applications. Macula also offers multiple customisation possibilities for specific licence plates and different types of transport (trains, trucks, cars, etc.).

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Video Content Analytics

Macula VCA is a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence

At the core of the product is an advanced object tracking engine that continually tracks moving and stationary targets. Easy to set up, Macula VCA automatically adjusts to site conditions, making it ideal for both experienced and untrained personnel to use.

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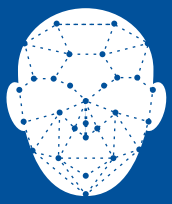
Face Recognition



Macula Face Recognition is a biometric application that is designed to work with Macula Professional & Enterprise editions

The technology assures system performance and reliability with live face detection, simultaneous multiple face recognition and fast face matching in 1-to-1 and 1-to-many modes. Macula Face Recognition is ideally suited for human resource control applications as well as for security and enforcement applications.

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Visual Data Solutions

Macula offers a powerful metadata tagging with visual proof by integration of useful information into CCTV Visual.

This combination of information with video as a proof make daily production process more effective on identify potential loss or problems. Example of potential integration: Barcode System, Weight Bridge System, Access Control System, Sensors and PLC/SCADA…etc. Evidence can be store for months to one year, depend on design. Easily Retrieval of evidence, by simply key in the product Bar Code.

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MACULA VMS SOFTWARE DATASHEET

		Compare Macula VMS Versions	
App.	**Features**	**Professional**	**Enterprise**
General	Number of simultaneously connected cameras	24CH 48CH 72CH 96CH	Unlimited *
	Licensing type	Per Server	Global Server
	Technical support	2 years since last available release date	
	Version updates	2 years since license activation date	
	Version update subscription plans	+ 2, + 8 years	
	License upgrade option	Available	Through Channel Addon
	Archive size/duration	Unlimited (storage limitations apply)	
Server / Console	Clients application connections	Unlimited	
	Web application connections		
	Android and iOS application connections		
	Local and Remote configuration management	Per each server	Centralized
	Local and Remote user management		
	Supported video stream resolutions	Unlimited	
	Supported cameras/devices	> 4000 models	
	Generic Device drivers: ONVIF, RTSP, PSIA, HTTP	Available	
	Analogue PTZ protocols (via RS-232,422,485 ports)	Available	
	32-bit and 64-bit versions	Both available	
	Video capture board support	Available	
	E-mail notifications		
	Advanced Events & Actions (see full list below)	Available within each server	Global for all connected servers
	Recording server autodiscovery	Not applicable	Available
	Service mode	Available	
	Software watchdog		
	Device autodiscovery		
	Local storage support		
	Remote/network storage support		
	Manual archive backup wizard		
	Storage configuration per camera		
	Camera/Device side motion detector support		
	Camera/Device side VCA event support		
	Software motion detector support		
	Motion information recording		
	Constant Video and Audio recording		
	Video and Audio recording by Motion		
	Recording profiles by Schedules		
	Comprehensive User permissions per each resource/component		
	Device and User grouping		
	Comprehensive User audit		
	H.264 streaming to Web and Mobile applications		
	H.265 streaming to Mobile applications		
	HTTP API for third party integrations		
	Camera side multicast support		
	Live podcasts(YouTube, Wowza, Generic RTMP)	Unlimited	
	Active directory & LDAP	Unlimited	
	E-maps & Geo-maps	Available within each server	Centralized
	Recording Server failover support	Not available	Available
	Archive replication/backup within multiple servers		
	Video Wall support		
	Organizations hierarchy support		
	Remote upgrade for server, Console and Monitor applications		
	Edge recoding support (for ONVIF Profile G devices)	Available	
	Support for Digital inputs		
	Support for Digital outputs		
	Client application multicast support		
	Software VCA support (additional licensing for analytics)		
	Automatic and manual VCA and software counters reporting (charts)		
	Visual data addons App support (like LPR, Face, Bar Code, Access Control, etc)		

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		Compare Macula VMS Versions	
App.	**Features**	**Professional**	**Enterprise**
Smart Logic: Events	Central server connected	Not available	Available
	Central server disconnected		
	Global event		
	Disk excluding	Available	
	Fallback activating		
	Motion		
	Motion started		
	Motion stopped		
	Recording error		
	User button clicked		
	Video lost		
	Video restored		
	Digital input		
	VCA event (edge/server-side)		
	External service (LPR/FR)		
	Scheduled event		
	External data values in Event & Action configurator		
	Automatic periodical event		
Smart Logic: Actions	Activate global event	Not available	Available
	Pop up an object on video wall display		
	Generate alert for main stream (for alert-based recording)	Available	
	Generate alert for substream		
	Pop up an objecton screen (channel/map/layout)		
	Set condition		
	Unset condition		
	Write to application log		
	Write to audit log		
	Activate main stream recording profile		
	Activate substream recording profile		
	Send email		
	Send email with a snapshot		
	Run program		
	Activate PTZ preset		
	Export snapshot to FTP or local folder		
	Start/stop audio file transmission to camera audio output		
	Control digital input		
	Highlight object on map		
	Send HTTP request		
	H.264 streamingto Web and Mobile applications		
	Create archive bookmark with a user		
	acknowledgement option		
	Send event to client: Display event in Alerts		
	Send event to client: Display event in Notification panel		
	Send event to client: Display a Warning message box		
	Send event to client: Trigger audio notification		
	Send event to client: Display event in mobile application		
	Increment/decrement software counters		

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MACULA VMS SOFTWARE DATASHEET

		Compare Macula VMS Versions	
App.	**Features**	**Professional**	**Enterprise**
Client	32-bit and 64-bit versions	Both available	
	Server connections	Unlimited	
	Live video streaming	Unlimited	
	Live video substream support		
	Number of supported monitors		
	Instant playback	Available	
	Archive forward and backward playback		
	Playback speed controls: regular, slow and fast		
	Archive Sequence explorer		
	Archive smart search		
	Build-in and custom Layouts		
	Layout management		
	Layout sequences		
	PTZ, Iris and focus control		
	PTZ presets		
	PTZ tours		
	Digital PTZ		
	Fisheye and Panomorph dewarping		
	Motion detection status and overlay		
	Multiscreen setup		
	Alerts		
	Export Snapshot from live view and archive		
	Video export from archive		
	Export Library		
	Operation modes: Alwayson top, Exclusivity and Locked		
	Advanced Information about live video stream		
	Video maintain aspect ratio mode		
	USB Joystick Support		
	Archive Bookmarks		
	Clientapplication security settings		
	Client application UI colour configuration		
	User buttons		
	Shared Layouts		
	E-maps & Geo-maps		
	Visual data support		
	Archive Portable player		
	Send audio from the Client/Monitor application to mobile application onremote mobile devices		
Mobile and Web	Server connections	Unlimited	
	H.264 streamingto Web and Mobile applications	Available	
	H.265 streaming to Mobile applications		
	Live video substream support		
	Up to 6 cameras per single live view for Mobile apps		
	Up to 4 cameras per single live view for Web application		
	Hardware GPU utilization for Mobile application		
	Custom view layouts		
	Two-way audio support		
	PTZ control		
	PTZ presets		
	Archive playback		
	Save snapshots		
	Google Chromecast support		
	Video & audio streaming from mobile devices		

* Macula Enterprise is licensed per channel, with no theoretical limitation for total amount of cameras distributed between multiple servers. Starting from the base license 100CH, additional licenses are 10, 50, 100, 500, 1000 CH.

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