

2020

SOFTWARE VERSION 4.15

Multicam

Software and monitor platform

Multiple functionality
to meet various requirements



User software that can be used for four different purposes: as a viewer/client for MVR software; for video recording and as a standalone surveillance system for manned single station systems; as a management and aggregator tool for information and metadata received from Selea OCR number plate reading cameras; and as an access control and parking management system.





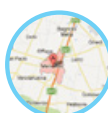
Video Surveillance Multicam



Additional modules

**MULTI MONITOR**

for viewing video surveillance cameras or reading number plates on multiple monitors

**MAPS**

for viewing cameras on a graphical map or on an image provided by the client

**PAM**

for monitoring access points and parking spaces within a facility

**SCM**

for detecting double parking traffic offences and fine compilation

**SIC**

ONVIF standard third-party TCP/IP camera integration licence

Multicam video surveillance

Multicam is a PC software program that runs on the Windows operating system. It is suitable for implementing a small centralized video surveillance system on a single workstation. In other words, Multicam transforms a standard computer into a digital video recorder (NVR) that can support any type of ONVIF-compliant IP camera.

Appreciated by customers thanks to its intuitive interface and ease of use, Multicam is suitable for anyone who is not familiar with sophisticated video surveillance software.

Multicam displays alarms and brings the cameras that triggered them into the foreground. It also displays the various video surveillance cameras located around the site (company, private, municipal) on a graphic map.

When combined with MVR software, Multicam can be used to display views on multiple monitors and transform the system from single user to multi-user.



Multicam

Video surveillance



DATASHEET

SOFTWARE VERSION 4.15

General

- Operating system: Windows 10, 2012 or 2016 Server
- Versions available: 16 (free), 25, 36, 49, 64 viewing points
- Dynamic IP address management
- Integration with third-party systems through 'calls' and exchange agents
- System administration with user and permissions management
- System log recording and management
- Image encryption
- View and record ONVIF standard TCP/IP cameras (optional)
- Supported PTZ protocols: Pelco P and D, Axis, Panasonic, Samsung, Videotec, Sony-visca ..

Recording

- Recording formats: JPEG, MPEG-4 and H264
- High resolution recording (including megapixel)
- System log recording and management
- Continuous 24-hour or event mode recording
- Pre- and post- alarm recording
- Record audio, video and data in a database
- Weekly recording scheduling
- Event or motion triggered recording
- Audio recording

Display

- 4:3 or 16:9 aspect ratio
- View customization (layout)
- Maps and sub-maps
- Display devices fitted with GPS units on geographical maps and track their positions
- Simultaneous display of pre-recorded and live video
- View previously recorded events without interrupting recording
- Live and recorded images via Client Browser
- Configuration parameters via display
- Standard or touch-screen mode
- Digital zoom

Compatibility

- All products in the Selea catalogue
- Any make or model of IP device as long as the video stream is standard RTP/RTSP
- Over 1,400 IP devices of various makes and models, through SIC extensions
- Most third-party cameras manufactured by Samsung, Sanyo, Axis, Vivotek, Panasonic, Acti, Ycam, Pelco and Verint

Security

- Privacy management by automatic deletion of images after a specified period of time.
- Dynamic encryption of images
- System administration, user and permissions management

Event and alarm management

One or more alarms and actions can be activated for each source. The events and associated actions provided in the software are:

SETTABLE EVENTS:

- Single source disconnection
- Input
- Software button
- Timed
- Object classification
- Object abandonment / removal
- Intrusion
- Speed
- Motion detection software
- Selea motion camera
- Plate Reading

ACTIONS THAT CAN BE ASSOCIATED WITH AN EVENT

- Start external program
- Customized action (macro)
- HTTP call
- Output settings
- Send alarms "External agents" (Client)
- Audio message
- Notifications on Maps
- E-mail notifications
- Camera group occlusion
- Record
- Reset alarm status
- Selected presets



Monitor Software Multicam

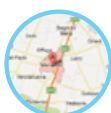


Additional modules



MULTI MONITOR

for viewing video surveillance cameras or reading number plates on multiple monitors



MAPS

for viewing cameras on a graphical map or on an image provided by the client



SIC

ONVIF standard third-party TCP/IP camera integration licence

Multicam monitor

Although originally designed as a video recording and surveillance program for small centralized single workstation surveillance systems, with the development of IP technologies and the reduction of their prices, it became necessary to develop the MVR multi-user platform.

Customers have appreciated the intuitive, easy-to-use interface of Multicam since the start. Today, maintaining the user-friendly qualities of the platform, it is now being used as a client interface for the multi-user video surveillance software. In other words, Multicam is used as an interface to display video flows coming from the various video surveillance system cameras that are connected to the MVR software.

Multicam displays alarms and brings the cameras that triggered them into the foreground. It also displays the various video surveillance cameras located around the site (company, private, municipal) on a graphic map. When combined with MVR, Multicam can be used to display single cameras on multiple monitors or display multiple views, alarms and maps on a single monitor.



General

- Operating system: Windows 10, 2012 or 2016 Server
- Versions available: 16 (free), 25, 36, 49, 64 viewing points
- Dynamic IP address management
- Integration with third-party systems through "calls" and exchange agents
- System administration with user and permissions management
- View and record ONVIF standard TCP/IP cameras

Display

- 4:3 or 16:9 aspect ratio
- View customization (layout)
- Maps and sub-maps
- Display the position and track devices fitted with GPS on geographical maps
- Simultaneous display of pre-recorded and live video
- View previously recorded events without interrupting recording
- Live and recorded images via Multicam Browser
- Configuration parameters via display
- Standard or Touch-screen mode
- Digital zoom



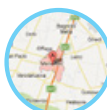
Plate reading Multicam



Additional modules



MULTI MONITOR
for viewing video surveillance cameras or reading number plates on multiple monitors



MAPS
for viewing cameras on a graphical map or on an image provided by the client



SCM
for detecting double parking traffic offences and fine compilation



SIC
ONVIF standard third-party TCP/IP camera integration licence

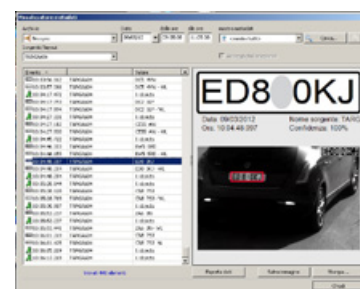
Multicam Plate reading

It should be noted that Multicam is not LPR-OCR software, i.e. software that extracts a vehicle number plate from images. However, when used for plate reading, Multicam is a complete management software solution for video flows and plate reading data collected from Selea ANPR-OCR cameras.

Its video surveillance capabilities and number plate camera management functions mean that Multicam can be used as an integrated solution for vehicle access and the surveillance of peripheral areas.

Multicam's number plate management section makes it possible to manage white lists (vehicles with permission to enter), film the entry (including event-triggered recordings), generate pop-ups for alarms or events, and display transit statistics.

Multicam displays alarms and brings the cameras that triggered them into the foreground. It also displays the various video surveillance cameras located around the site (company, private, municipal) on a graphic map. When combined with MVR software, Multicam can be used



General

- Operating system: Windows 10, 2012 or 2016 Server
- Versions available: 16 (free), 25, 36, 49, 64 viewing points
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- Integration with third-party systems through "calls" and exchange agents
- System administration with user and permissions management
- System log recording and management
- Image encryption
- View and record ONVIF standard TCP/IP cameras (optional)

Recording

- Record ANPR-OCR notifications, ILU-BIC codes (containers) and KEMLER-ONU codes (ADR plates for hazardous goods) in a database.
- Recording formats: JPEG, MPEG-4 and H264
- Full resolution recording (including Megapixel)
- System log recording and management
- Continuous 24-hour recording mode, event-triggered, or upon reading notification (plate, container, goods)
- Pre- and post- alarm recording
- Record audio, video and data in a database
- Weekly recording scheduling
- Event, reading or motion triggered recording
- Audio recording

Plate reading

- Unlimited number of lists (white, black, etc.)
- Export recorded data in CSV-XLS format
- Record data in a database
- Search engine, also with wildcard operator
- Automatic deletion of images and data after x days
- Statistics dashboard
- PIP (picture in picture) feature for plate image and context image
- Recording formats for images received from plate reading cameras: MPEG-4 and JPEG
- FTP transfer of captured plate images
- Motion detection for double parking traffic offences (nearly always in combination with the Selea-TargaScanner device) and semi-automatic fine compilation using the SCM module

Compatibility

- All plate reading products in the Selea catalogue
- Any make or model of IP video surveillance camera as long as the video stream is standard RTP/RTSP, i.e. over 1,400 IP devices of various makes and models, through SIC extensions

Security

- Privacy management by automatic deletion of images after a specified period of time.
- Dynamic encryption of images
- System administration, user and permissions management

Event and alarm management

One or more alarms and actions can be activated for each source. The events and associated actions provided in the software are:

SETTABLE EVENTS:

- Single source disconnection
- Input
- Software button
- Timed
- Object classification
- Object abandonment / removal
- Intrusion
- Speed
- Motion detection software
- Selea motion camera
- Plate Reading

ACTIONS THAT CAN BE ASSOCIATED WITH AN EVENT

- Start external program
- Customized action (macro)
- HTTP call
- Output settings
- Send alarms "External agents" (Client)
- Audio message - sound signal
- Notifications on Maps
- E-mail notifications
- Camera group occlusion
- Record
- Reset alarm status
- Selected presets

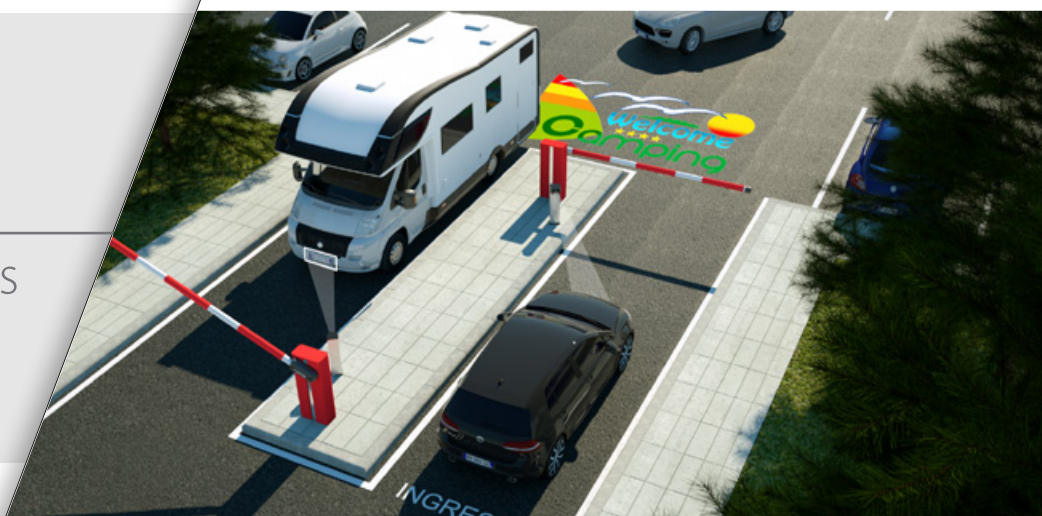
Statistics

- Daily (hourly), weekly and monthly transits
- By access(es)
- Time period
- Plate number (with smart search)
- Plates included in a list
- Nationality of the plates
- Plate reading quality



PAM

Vehicle access



Fields of application



SERVICED APARTMENTS
for controlling the parking spaces available for family groups in residential complexes.



CAMPsites
for making sure that only one car enters the parking space reserved for a holidaymaker.



GARAGES
for the automated entry of permit holders or for standard fee-paying customers.



HOTELS
for controlling employee access and parking spaces reserved for customers.



COMPANIES
for controlling the entry and exit of employees, customers, couriers and suppliers.



INSTITUTIONS
to allow access only to those entitled to enter a public facility.

PAM - access control module

PAM (Park Access Module) is a Multicam module designed to manage parking spaces in private car parks, paid car parks, residential or municipal car parks. This module is useful for anyone who wishes to implement an administration and access control system with a functionality for managing permits, time slots, calculating the cost of a stay or for managing special categories of customers (VIP).

PAM is the ideal solution for applications in which only one vehicle belonging to a family group is allowed to enter, for example in order to manage limited parking spaces available in residential complexes or campsites.

Once the maximum number of spaces available has been reached, the PAM prevents additional vehicles from entering until a space becomes available. A special light column linked to the Multicam software is able to display the availability of parking spaces for cars.

PAM is able to manage special categories of vehicles (ambulances, law enforcement vehicles, suppliers or special customers, who can enter automatically regardless of the time slot settings, available parking spaces or other limitations.



General

- Operating system: Windows 10, 2012 or 2016 Server
- Versions available for up to 49 entry/exit plate reading cameras
- Demo version with 16 cameras for a maximum of two hours use
- Dynamic IP address management
- Integration with third-party systems through "calls" and exchange agents
- System administration with user and permissions management
- System log recording and management
- Image encryption
- Compatibility with Selea plate reading cameras

Recording

- Recording formats: JPEG, MPEG-4 and H264
- Record up to 49 plate reading cameras
- System log recording and management
- Continuous 24h or event mode recording
- Pre- and post- alarm recording
- Record audio, video and data in a database
- Weekly recording scheduling

Security

- System administration, user and permissions management
- User rights:
 - Recording archive access
 - RTP video streams
 - System log
 - PTZ controls
- Recordings from Client software
- Software runs as a Windows service and not as a program
- Dynamic encryption of images
- Management of views for each individual user
- Access management for each individual user
- Specify 'groups' of cameras with permissions for each user
- Entire system backup and restore

Event and alarm management

One or more alarms and actions can be activated for each source. The events and associated actions provided in the software are:

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- Audio message
- Notifications on Maps
- E-mail notifications
- Camera group occlusion
- Record
- Reset alarm status
- Selected presets

Searching and Statistics

- Search the database, filter by time period and/or number plate. Exportable to CSV, for:
 - Authorized and unauthorized accesses
 - Passbacks
 - By gate, user
 - Category
 - Parking area Of course
- Statistics for:
 - Daily (hourly), weekly and monthly entries/exits
 - By access point(s)
 - Time period
 - Plate number (with smart search)
 - Plates included in a list
 - Plate country codes
 - Plate reading quality

PAM functions

- Option to automatically launch the program in full screen mode with limited functionality for each user.
- Create user accounts with:
 - Full personal details
 - Account validity period (e.g. seasonal user or after account pre-registration).
 - Option to associate multiple number plates/vehicles to each user (e.g. family group) and limit the number of family group users that can enter.
- View and record the driver's face and vehicle details using one or more vision cameras.
- Associate the transit with personal data (user photo, address, telephone number, notes, etc.) and the description of the type of car owned by the user for correct access control (e.g. number plate copied and mounted on a different vehicle).
- Enable access to parking areas with weekly scheduling, customizable according to parking area, category or individual user.
- Assign the number of spaces reserved for users or categories (management of VIP spaces, season tickets and guests) with the option to grant access when the assigned spaces are full.
- Prevent the access of vehicles when the maximum number of assigned or available spaces has been reached.
- Enable access for a limited number of unregistered users.
- Automatic or manual opening of barriers using outputs integrated in the cameras, or direct integration of ModBUS TCP/IP PLCs to open the barrier or traffic light signal using two separate outputs.
- Create special categories with free access (e.g. service vehicles or security patrols, including with weekly hourly scheduling) or categories that are always denied access.
- Calculate the hourly fee for use of the parking area, customizable by user/category.
- Enable manual exit from the area, with indication of the parking fee payable.
- Configure the free exit time during which vehicles can exit free of charge after having entered.
- Manual operator intervention for entry/exit
- Option to open the parking areas completely for a limited time (e.g. in an emergency or limited free entry period.).
- Audible and visual signalling of atypical events with the possibility of manual operator intervention.
- Customizable receipts, with the option of incorporating a barcode or QR-code indicating transit information.

PAM functions

- Real-time status display of parking areas
- Create 'alias' entries for number plates to allow the transit of vehicles with plates that are damaged or difficult to read.
- Intelligent log search for number plates, users, categories, crossing point and control area.
- Export events according to search criteria in CSV format for statistical analysis or customized checks.
- Export/import users' personal data in CSV format.
- Automatic deletion of transits from the database, as required by data protection regulations or to free up memory

The screenshot displays the PAM software interface. At the top, there's a menu bar with options like 'PAM', 'Configura', 'Storico', and 'Stato aree'. The main area is divided into several sections:

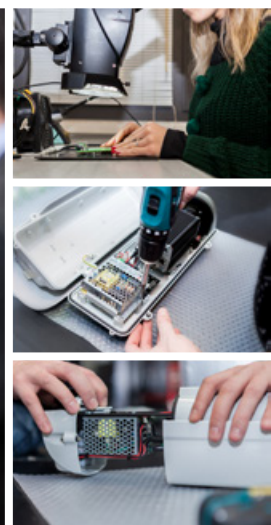
- Top Left:** A camera feed labeled 'SelealT805 Context' showing a parking garage interior.
- Top Right:** A camera feed labeled 'SelealT805 Targhe' showing a row of parked cars.
- Center:** A large window titled 'Dettagli evento' (Event Details) showing a car with license plate 'CF321JE' and the text 'UTENTE SCONOSCIUTO' (Unknown User). It includes fields for date (18/09/2018), time (15:55:13), and confidence (100%).
- Bottom Left:** A camera feed labeled 'SelealTarghe750' showing a parking barrier with a 'DO NOT ENTER' sign.
- Bottom Right:** A user profile window for 'Mario Bianchi' with photo, name, company 'IT Consulting', and address. It also shows a 'SelealT805 Targhe' license plate 'EJ123CF' with date and time.
- Bottom:** A table listing recent events with columns for Date, Ora, Targa, Data, Ora, Pregeposito, Area, Categoria, Veicolo, and Note.

Date	Ora	Targa	Data	Ora	Pregeposito	Area	Categoria	Veicolo	Note
18/09/2018	15:54:59	FL5...	SelealT805 Targhe	OUT	Consegna...	Parcheggio			
18/07/2018	00:51:39	DC2...	#Receptor/Ingresso Principale	IN	A03	Parcheggio			
18/07/2018	08:34:21	DVB...	#Receptor/Ingresso Principale	IN	Nissen Campaggio	Parcheggio			
18/07/2018	08:32:86	FC8...	#Receptor/Ingresso Principale	IN	E/09	Parcheggio	Dipendenti		
18/07/2018	08:03:56	DF6...	#Receptor/Ingresso Principale	IN	F26 - 15 Ribeschni	Parcheggio			
18/07/2018	21:47:37	DK7...	#Receptor/Ingresso Principale	IN	X14 Mon Carlo	Parcheggio			
18/07/2018	21:47:57	DY7...	#Receptor/Ingresso Principale	IN	C20 Galli Giroluca	Parcheggio			
18/07/2018	21:10:16	FUG...	#Receptor/Ingresso Principale	IN	Bianchi Pannocchia	Parcheggio	Prioritari		

About us



www.selea.com



SELEA is specialized in the manufacture of number plate reading solutions, both for vehicle access control and for territorial security and traffic control. All of our products are developed and manufactured entirely in Italy. This means that our customers benefit from continuous and comprehensive technical support.

SELEA

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