



TECHNICAL INFORMATION

SEMSY[®] COMPACT

NEW FEATURES AND CHANGES

SOFTWARE VERSION 5.3.21

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ABSTRACT

This document contains information on new features and changes that are introduced with the current software version. Finally, the document provides an overview of the major innovations and changes that have been introduced with the various software versions.

VALIDITY

This document applies to the SeMSy® Compact software.

COMPATIBILITY

The appliance is compatible with the following hardware and software after the update to the current version:

- SeMSy® Recording Server V10 as of version 10.x.1
- SMAVIA Recording Server V9 as of version 9.x.10
- SMAVIA Recording Server V8 as of version 8.x.12
- PGuard advance as of version 4.7.2
- Operating system Microsoft Windows 10 (64 Bit)
- NVIDIA driver as of version 456.38



Software Download

The current software version of SeMSy® Compact is available in the download center at www.dallmeier.com.

GENERAL NOTES

Note that

- this update is free of charge.
- the innovations are only generally described in this document.
- the use of some functions may require a license subject to charges.
- the Dallmeier support hot-line is always available for further questions.

PREPARATION

Before installing SeMSy® Compact, the driver of the graphics cards should be updated. This is not required for the installation itself, but for the subsequent first start of SeMSy® Compact and the ongoing operation. The required version 456.38 of the NVIDIA driver can be obtained from the Internet, for example at <https://www.nvidia.com/en-us/drivers/results/163532/>.

UPDATE

SeMSy® Compact is only offered as a full installation. An older version can be updated by installing it into the existing installation directory, whereby the configuration is taken over. If the default settings of the new version are to be used, the old version must be uninstalled and the installation directory deleted.

INSTALLATION

The installation of SeMSy® Compact must be done by a user with administrator rights for the operating system. After the installation SeMSy® Compact must be started at least once by this administrator, so that the necessary entries are written into the Windows registry and are then also available for users without administrator rights.

DOWNGRADE

SeMSy® Compact introduces in version 5.2.3 (and thus in version 5.2.23 and 5.3.31 as well) a new encryption of the configuration file **ProgramData.bin**. If you want to change back to the old version 5.1.19 after the installation of version 5.2.3, 5.2.23 or 5.3.21, the configuration file must first be exported (Configuration -> Import/Export). After the installation of version 5.1.19 the file can then be imported accordingly.

NEW FEATURES AND CHANGES

NEW EXTENDED FUNCTION

Description The previous version of SeMSy® Compact already supported the optional and extended functions *Multi Display Split-View*, *Monitorwall* and *Combined Panomera® View*.

The current version of SeMSy® Compact has been equipped with an extended function for video systems in airports. Based on data from airport systems, the optional *Flight Data Display* function allows *GPS and flight data* to be overlaid directly on the displayed image.

LICENSING OF THE EXTENDED FUNCTIONS

Description For licensing the extended function, a dedicated *SeMSy® Compact Pro Dongle* with *serial number* is required starting with the current version of SeMSy® Compact.

The SeMSy® Compact Pro dongle is offered as *Pro Max* variant for licensing a single workstation. The *Net 10* or *Net 250* variants of the dongle allow licensing of the extended functions on multiple workstations that must be permanently accessible on the same network.

Note that older dongles with licenses for the then already available extended functions can also be used with the current version of SeMSy® Compact.

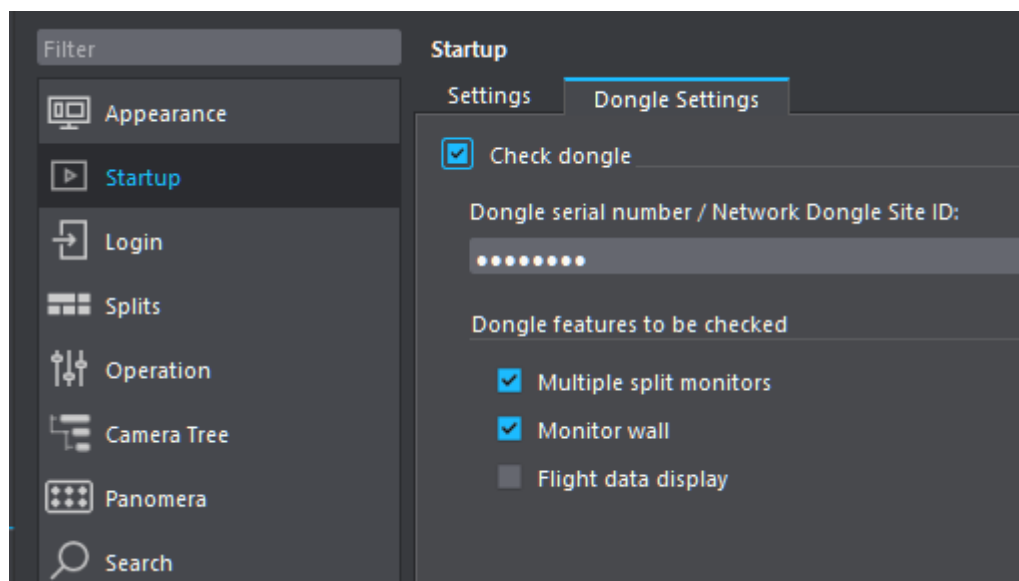
MAINTENANCE OF THE EXTENDED FUNCTIONS

Description For the update of the extended functions, a maintenance license on the SeMSy® Compact Pro dongle is required. A 12-month license for updating the extended functions is already included in the scope of delivery. This license can be extended ex works but also subsequently by another 12 months to a total of up to 60 months.

After updating SeMSy® Compact 5.3.21 to a newer version, the basic functions can be used as usual without a maintenance license. In this case, however, the included new versions of the extended functions are not available.

MANAGEMENT OF THE EXTENDED FUNCTIONS

Description The licenses of the extended functions contained on the SeMSy® Compact Pro Dongle are managed in the dialog *Configuration / Startup / Dongle Settings*.



First activate the check box **Check dongle**, so that the relevant licenses of the connected dongle or the used network dongle are automatically available after a restart of SeMSy® Compact.

After entering the serial number of the dongle, all included licenses are displayed by clicking **Check now** (not included in the image section). Licenses that are to be used by the workstation can be assigned with the corresponding check box.

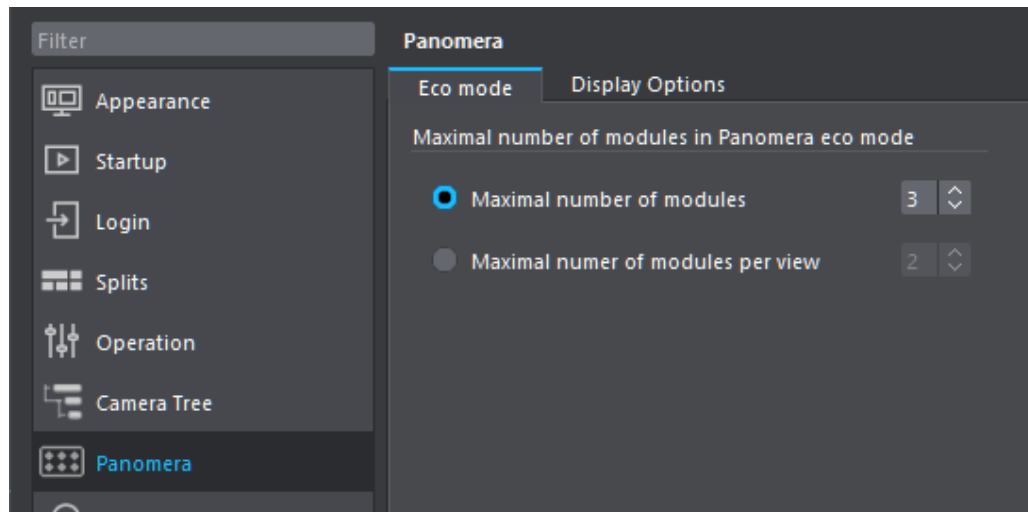
If a network dongle (**Net 10** or **Net 250**) is used, free or multiple contained licenses are available for use on additional workstations. However, occupied licenses are no longer displayed during their configuration.

For the allocation of the licenses, SeMSy® Compact should be started by a user with administrator rights, so that the necessary entries can be written into the Windows registry and the functions are then also available for other users.

SETTINGS PANOMERA® ECO MODE

Description SeMSy® Compact already supported the display of Panomera® systems in Eco Mode in earlier versions. If several modules were displayed during a zoom, only the module with the most visible area was displayed at full resolution.

Starting from the current version, the maximum number of modules with full resolution can be set under Configuration / Panomera / Eco Mode.



The **Maximal number of modules** option allows to set the zoom for a split with overview view. **Maximal number of modules per view** sets this value for the detail view.

STREAMING DATA DISPLAY

Description As of the current version, SeMSy® Compact allows the output of the technical transmission data of the received video streams. If the corresponding option is activated, the delay or the number of received, lost or discarded data packets, for example, is displayed as an overlay in the split.

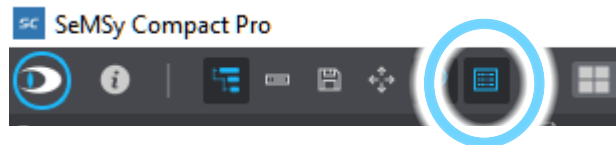
The display of the data can be switched on and off with the check box **Enable OSD streaming info** in **Configuration / Splits / Appearance**.

Note that this setting is not valid for individual cameras but for all cameras.

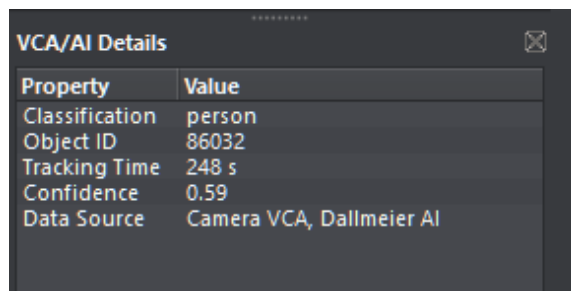
WINDOW FOR DISPLAYING ANALYTICS DETAILS

Description In the current version, SeMSy® Compact has been extended with a new output window that displays the analytics details of the captured object displayed in the split.

The *VCA/AI Details* window is displayed below the camera tree after clicking on the corresponding button in the menu bar.



After clicking on an object displayed in the split, all analytics details are displayed in the *VCA/AI Details* window, regardless of whether they are selected for display in the split or not.



Property	Value
Classification	person
Object ID	86032
Tracking Time	248 s
Confidence	0.59
Data Source	Camera VCA, Dallmeier AI

Note that this function is available both live and in playback.

PRESETS FOR DISPLAYING ANALYTICS DETAILS IN THE SPLIT

Description SeMSy® Compact already allowed in earlier versions the configuration of the analytics details (frame, object type, acquisition duration, etc.), which are displayed with the objects in the image. This is still done separately for each camera in the now extended dialog *VCA/AI Display Configuration*, which is opened by *Right-Click in the Split / Image / VCA/AI Display / Configure VCA/AI display*.

In addition to the individual configuration of the details, the camera can now also be assigned a predefined *Preset* of the analytics details to be displayed.

The general definition of the *Presets*, which is independent of individual cameras, is carried out in a corresponding dialog that is displayed after the creation of a *VCA/AI display preset* in *Configuration / Splits / VCA/AI display presets management*.

SUPPORT PIXELATION AI SERVER 3.1.0

Description SeMSy® Compact have been equipped with a new interface for receiving data from an external *Pixelation AI Server* in the current version.

Please note that SeSMY® Compact from the current version on is only compatible with a *Pixelation AI Server Software version 3.1.0* (or higher).

GENERAL OPTIMIZATIONS

Description Various optimizations have been integrated into the current version of SeMSy® Compact in the course of general system maintenance:

- SmartFinder optimized for fisheye cameras with 360° view
- Interface for external activation of display via XML commands integrated
- Interface for receiving flight data integrated
- Configuration of display of received flight data integrated
- Setting of the displayed UTC time supported
- All translations of the user interface optimized and extended

CHANGE HISTORY

Below you will find tabular overviews of the major innovations and changes that have been introduced with the various software releases.

New / Changed Features	Software Version																	
	5.1.10 (2021-02-26)	5.1.19 (2021-05-05)	5.2.3 (2021-07-26)	5.2.23 (2022-02-16)	5.3.21 (2022-08-04)													
Automatic disconnection	o	x	x	x	x													
Right for manual connections	o	x	x	x	x													
OpenSSL Security Fix CVE-2021-3450 and CVE-2021-3449	o	x	x	x	x													
PRemote-HD filter optimized	o	x	x	x	x													
Display of external split views optimized	o	x	x	x	x													
Search in defined period on several days	o	o	x	x	x													
Search with object size filter	o	o	x	x	x													
Display of search criteria with tooltip	o	o	x	x	x													
User rights for camera and track selection	o	o	x	x	x													
Individual encryption of the configuration data	o	o	x	x	x													
Integration Panomera® Streaming Server III	o	o	x	x	x													
Panomera® live warning	o	o	o	x	x													
SmartFinder for DOMERA® fisheye cameras	o	o	o	x	x													
Display of analytics confidence	o	o	o	x	x													
Combined Panomera® View and Monitorwall	o	o	o	x	x													
Extended function Flight Data Display supported	o	o	o	o	x													
Licensing of extended functions with the SeMSy® Compact Pro Dongle	o	o	o	o	x													

New / Changed Features	Software Version																
	5.1.10 (2021-02-26)	5.1.19 (2021-05-05)	5.2.3 (2021-07-26)	5.2.23 (2022-02-16)	5.3.21 (2022-08-04)												
Optional maintenance license for extended functions	o	o	o	o	x												
Dialog for managing licenses for extended functions	o	o	o	o	x												
Setting the number of modules with full resolution in Panomera® Eco Mode	o	o	o	o	x												
Output of the technical transmission data of the received video streams	o	o	o	o	x												
Window for displaying analytics details	o	o	o	o	x												
Presets for displaying analytics details in the split	o	o	o	o	x												
Support Pixelation AI Server 3.1.0	o	o	o	o	x												
SmartFinder optimized for fisheye cameras at 360° view	o	o	o	o	x												
Translations of the user interface optimized and extended	o	o	o	o	x												

x = New/changed feature available in software version

o = New/changed feature not available in software version



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