

Release Note

IPS VideoManager Version 17

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1 Compatibility

1.1 Operating systems

IPS VideoManager V17 is compatible with the following operating systems:

- Windows 10, 64 Bit
- Windows 11, 64 Bit
- Windows Server 2022, 64 Bit
- Windows Server 2025, 64 Bit

1.2 Hardware

The following hardware is required for the smooth operation of IPS VideoManager V17:

- General:
 - Hard disk capacity: 500 GB (for the operating system partition)
 - RAM: 16 GB
 - Storage capacity for video data depending on the number of cameras, recording quality, and recording duration
- Management Server:
 - Processor: Intel Xeon (6 Cores with 2,90 GHz each)
 - Network cards: Ethernet 1 Gbit (2 Ports)
- Device Server:
 - Processor: Intel Xeon (6 Cores with 3,30 GHz each)
 - Network cards: Ethernet 1 Gbit (2 Ports)
- Control station:
 - Processor: Intel Core i7 (12 Cores mit je 2,10 GHz)
 - Network card: Ethernet 1 Gbit
 - Graphics card: Nvidia Quadro A400 4 GB (Note: No Graphics cards from AMD)
 - Display: Full HD 1080p (maximum 24 video windows)
- All-in-One workstation:
 - Processor: Intel Xeon (6 Cores with 3,30 GHz each)
 - Network cards: Ethernet 1 Gbit (2 Ports)
 - Graphics card: Nvidia Quadro A400 4 GB (Note: No Graphics cards from AMD)
 - Display: Full HD 1080p (maximum 8 video windows)

1.3 Data bases

IPS VideoManager V17 is compatible with the following database software:

- SQL Server 2022 Express

1.4 Virtualisation

Virtualisation environments must meet the system requirements.

1.5 Cameras

1.5.1 Axis cameras

IPS VideoManager V17 supports native integration of the following Axis cameras in addition to existing cameras:

- Axis Q6225-LE
- Axis Q6355-LE
- Axis Q6358-LE

1.5.2 Dual-head cameras

- IPS VideoManager supports dual-head cameras (combined thermal and colour cameras) using the ONVIF protocol – for example, the MLT-SUR-SD100MR from Miltech. The camera must be configured twice (with the same IP address). After selecting different zoom tokens in the PTZ settings of the cameras, they share the PTZ function but can zoom individually.

1.6 Control devices

IPS VideoManager NextGen Client supports the following control devices from the company Axis:

- TU9002 Joystick (without integrated playback function, formerly „Jog Dial“)
- TU9003 Keypad (without keys F1-F5)
- TU9001 (Set, consisting of TU9002 and TU9003)

2 Features

2.1 IPS NextGen VideoAnalytics

2.1.1 Thermal camera

- In addition to the colour camera, a thermal camera can also be set up in the IPS NextGen VideoAnalytics configuration. The thermal camera offers functions such as automatic animal detection, spider detection and alarm delay. This requires an **IPS NextGen VideoAnalytics** license.

2.1.2 Animal classification

- The animal classifier can recognise animals using a neural network and prevent an alarm from being triggered. Depending on the animal species, this can drastically reduce false alarms. The function is only available for thermal cameras.

2.1.3 Alarm delay

- The alarm delay function allows you to delay the triggering of an alarm by 250 ms. The alarm is only triggered when an object remains in the zone for longer than this. This can significantly reduce false alarms (example application: birds). The function is deactivated by default and is only available for thermal cameras.

2.1.4 IPS VideoAnalytics Converter

- The IPS VideoAnalytics Converter is an additional tool that can be installed to transfer IPS Outdoor Detection configurations to IPS NextGen VideoAnalytics (note: converted parameters must always be checked in the VideoAnalytics configuration). In future, the IPS VideoAnalytics Converter will be able to migrate further VideoAnalytics configurations to IPS NextGen VideoAnalytics.

2.2 IPS VideoManager Configuration

2.2.1 Advance calculation of dome tracking

- Due to technological advances in PTZ cameras, the default values for advance calculation of positions in dome tracking have been recalculated. The default values are now 0.8 seconds for the first position of dome tracking and 0.4 seconds for subsequent positions of dome tracking. The new default values only apply to newly created cameras.

2.2.2 Dome tracking in wet conditions

- An improvement to the algorithm prevents the PTZ camera from jumping away from the tracked object during smooth guided dome tracking in reflective ground conditions (wet conditions).

2.2.3 ONVIF Auxiliary commands

- Additional camera functions (e.g. activating a windscreen wiper) can be controlled and configured via the ONVIF standard using the camera's AUX buttons. The AUX buttons can be configured in the IPS VideoManager configuration.

2.3 IPS NextGen Client

2.3.1 Event Research

- The IPS NextGen Client has an event search page. Authorised users can search for events (alarms and faults) and display them in groups or tables that have occurred during the specified period.

3 IT Security

3.1 Server-side authorisation check

- The server validates whether a user logged in to the IPS VM Client is authorised to change the IPS VideoManager system configuration or the IPS VideoAnalytics configuration.

3.2 System report permission

- The standard user groups no longer have the permission to create system reports. This permission can now be assigned to a user group in the user group configuration.

3.3 NuGet packaging

- The conversion of internal libraries into NuGet packages makes manual management of DLL files obsolete. This makes development more efficient and less susceptible to security vulnerabilities.

3.4 Installation of additional components

- Several additional components must be installed via the installation wizard (custom installation) from IPS VideoManager V17 onwards and can no longer be installed manually via MSI file.

This applies to the following components:

- Setup_AccessControlGatewayONVIF
- Setup_AlarmManagementGatewaySIA
- Setup_AnalyticsStreamingServer
- Setup_DiagnosticService
- Setup_LoggingService
- Setup_SOAPWebGateway

The firewall settings from the corresponding subdirectory are also automatically installed in this way.

3.5 Firewall

- Firewall rule settings have been optimised.

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Securiton GmbH
IPS Intelligent Video Software
Kronstadter Str. 4
D-81677 München
Tel. +49 89 4626168-0
Fax +49 89 4626168-88

partner@securiton.de
<http://partner.securiton.de>