

TECHNICAL INFORMATION

**CAMERA FIRMWARE**  
**V.10.1.2.4**  
CHANGELOG

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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org>) and cryptographic software written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)).

# CONTENTS

<b>CHAPTER 1:</b>	<b>INTRODUCTION</b>	<b>4</b>
1.1	About This Document	4
1.2	Target Audience of This Document	4
1.3	Validity	4
1.4	Compatibility	5
1.5	General Notes	5
1.6	Limitations	5
<b>CHAPTER 2:</b>	<b>UPDATING THE FIRMWARE</b>	<b>6</b>
<b>CHAPTER 3:</b>	<b>NEW FEATURES AND CHANGES</b>	<b>7</b>
<b>CHAPTER 4:</b>	<b>CHANGELOG</b>	<b>9</b>


# INTRODUCTION

## 1.1 ABOUT THIS DOCUMENT

This document contains information on new features and changes that are introduced with the current firmware version.

In addition, the document contains detailed descriptions and instructions for carrying out a successful firmware update.

Finally, the document shows a structured list with the main new features and changes of the current firmware version and all previous firmware releases (changelog).

 *This document only provides general information on new features and changes that are introduced with the current firmware version. Detailed descriptions on how to configure your Dallmeier device can be found in the respective product documentation at [www.dallmeier.com](http://www.dallmeier.com).*

## 1.2 TARGET AUDIENCE OF THIS DOCUMENT

This document is particularly intended for the following persons:

- Highly qualified integrators (installers) of Dallmeier video security systems
- Experienced network administrators
- IT security experts

## 1.3 VALIDITY

This document applies to the following devices:

Dome Cameras	IR Cameras
<ul style="list-style-type: none"><li>• DDF5140HDV-DN-SM</li><li>• DDF5120HDV-DN-SM</li><li>• DDF5140HDV-DN-IM</li><li>• DDF5120HDV-DN-IM</li><li>• DDF5140HD-DN-SM (Indoor)</li><li>• DDF5120HD-DN-SM (Indoor)</li></ul>	<ul style="list-style-type: none"><li>• DF5140HD-DN/IR</li><li>• DF5120HD-DN/IR</li></ul>

Table 1-1

The descriptions in this document are based on the firmware version **10.1.2.4**.

## 1.4 COMPATIBILITY

The firmware version **10.1.2.4** is compatible with the following hardware and software:

- SMAVIA appliances of generation 5 as of firmware version 8.x.12 SP A
- SMAVIA appliances of generation 6 as of firmware version 9.x.6
- SMAVIA Viewing Client as of software version 2.8.13
- SMAVIA Viewer as of software version 2.8.13
- Dallmeier Live Video ActiveX<sup>\*)</sup> control as of version 1.3.1.10
- SeMSy<sup>®</sup> III Video Management System as of version 1.7.3

## 1.5 GENERAL NOTES

Note that

- the firmware update to version **10.1.2.4** is free of charge.
- new features and changes that are introduced with the current firmware version are only generally described in this document.
- the Dallmeier support hotline is always available for further questions concerning the current firmware update.
- a paid license may be required for activating a new feature that is introduced with the current firmware version.
- new features and changes described in this document may not be relevant to all of the above-mentioned devices, and their availability always depends on the device specifications (see the current product specification of your device at [www.dallmeier.com](http://www.dallmeier.com)).

## 1.6 LIMITATIONS

The following limitations have to be considered for the current firmware version:

- The Interface Board Series 5100 is currently not supported.
- An image rotation of 90°, 180° or 270° is currently only available for streaming, not for JPEG.

# UPDATING THE FIRMWARE

The firmware update to version **10.1.2.4** can be downloaded free of charge from the corresponding product page at [www.dallmeier.com](http://www.dallmeier.com).

The firmware update is performed over the network using the **PService3** software which is also available for download free of charge at [www.dallmeier.com](http://www.dallmeier.com).

Updating your IP device is only possible via TCP/IP. Therefore, your IP device has to be available in your local area network (LAN) so that the update file can be successfully transferred (contact your network administrator for further information and assistance if necessary).

## Performing the Update

1. Download the firmware update (zipped folder with update file and license text) from the corresponding product page at [www.dallmeier.com](http://www.dallmeier.com).
2. Unzip the zipped (compressed) folder after downloading to any local directory on your hard disk (using WinZip\*) or a similar program).
3. Run **PService**.
4. Follow the instructions for performing firmware updates in the **PService3** documentation.
5. To update your IP device, select the unpacked update file with the file extension **\*.sh**.

### NOTICE

#### Invalid update file

Only files with the **\*.sh** file extension can be opened.

6. If necessary, enter the login credentials for gaining access to your IP device.
7. Click **OK** and confirm the start of the firmware update process in the subsequent info dialog.

The update process is then started.

### NOTICE

#### Hardware and software malfunctions due to an incomplete or failed firmware update

- ▶ Do not disconnect your IP device from the power supply during the update process (up to 5 minutes).

Your IP device will automatically reboot after the update process is successfully completed.

# NEW FEATURES AND CHANGES

Below you will find all new features and changes that are introduced with the current firmware version.

## Client-side Image Rotation for Vertically Oriented (Portrait) Scenes

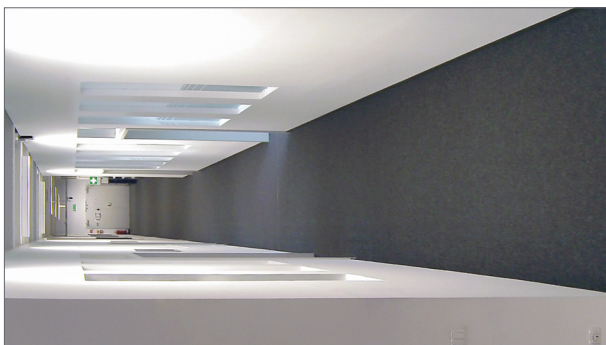
With the current firmware version, a new option for client-side image rotation has been added to the “Video” dialog. The set image rotation (90°, 180° or 270°) does not take place on the camera itself but will then be carried out by compatible Dallmeier software applications such as SMAVIA Viewing Client. The image rotation feature is useful, in particular, for monitoring vertically oriented (portrait) scenes such as long rooms (passages, hallways, corridors), streets and sidewalks, railway platforms or perimeter fences.

During the installation, the camera or lens/sensor unit is first rotated physically so that the scene is not captured in the usual aspect ratio of 16:9 or 4:3 (landscape format), but instead in an aspect ratio of 9:16 or 3:4, i.e. in portrait format. Thus, the full available sensor resolution can be used solely for important image areas and the recording of superfluous information on the image sides can be avoided.

With the new option for client-side image rotation, the camera image is automatically displayed correctly for the operator when the video material is evaluated.




Full HD resolution, sensor aspect ratio 16:9,  
no physical camera rotation, no client-side image rotation



Full HD resolution, sensor aspect ratio 9:16,  
physical camera rotation of 90°, no client-side image rotation



Full HD resolution,  
sensor aspect ratio 9:16,  
physical camera rotation of 90°,  
client-side image rotation of 90°

 *Images for Video Content Analysis (VCA) are rotated within the camera before processing according to the set image rotation angle.*

## **| Redesign of the WebConfig User Interface**

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With the current firmware version, the web-based graphical user interface (GUI) has been completely revised and adapted to the new attractive Dallmeier corporate design. The modern and clear interface has been designed with special attention to usability for an intuitive and easy handling.

## **| Password Length**

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With the current firmware version, the minimum required password length has been reduced from 5 characters to 1.

## **| Display of Password Strength**

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As of the current firmware version, the strength of the selected password is displayed in real time when a new password is entered.

## **| Automatic Refresh of Info Data**

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As of the current firmware version, the values for the current device uptime, CPU utilization and network utilization (receiving rate, sending rate) are automatically refreshed every second in the “Information” dialog.

## **| General Minor Bug Fixes, Stability Improvements and Security Updates With Severity Rating “Low”**

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The current firmware version includes several general minor bug fixes, stability improvements (internal and network-related issues) and security updates with severity rating “low”.



# CHANGELOG

Below you will find a structured list with the main new features and changes of the current firmware version and all previous firmware releases (changelog).

## V.10.1.2.4

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- Client-side image rotation option added for vertically oriented (portrait) scenes
- WebConfig user interface adapted to the new Dallmeier corporate design
- Minimum required password length reduced from 5 characters to 1
- Display of password strength during input added
- Automatic refresh of info data implemented
- General minor bug fixes, stability improvements and security updates with severity rating “low”

## V.10.1.0.5

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- Internal buffering and memory management improved

## V.10.1.0.4

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- Initial release

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