

TECHNICAL INFORMATION

**CAMERA FIRMWARE
V.10.2.1.12**

CHANGELOG

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

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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 IP device can be found in the **Download Centre** at 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">• HDV In-ceiling mount variants:<ul style="list-style-type: none">- DDF5120HDV-DN-IM- DDF5140HDV-DN-IM• HDV Surface mount variants:<ul style="list-style-type: none">- DDF5120HDV-DN-SM- DDF5140HDV-DN-SM• HD Surface mount variants - Indoor:<ul style="list-style-type: none">- DDF5120HD-DN-SM (Indoor)- DDF5140HD-DN-SM (Indoor) | <ul style="list-style-type: none">• DF5120HD-DN/IR• DF5140HD-DN/IR |

Table 1-1

The descriptions in this document are based on the firmware version **10.2.1.12**.

1.4 COMPATIBILITY

The firmware version **10.2.1.12** 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
- SeMSy® III Video Management System as of version 1.7.3

1.5 GENERAL NOTES

Note that

- the firmware update to version **10.2.1.12** 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).

1.6 LIMITATIONS

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

- The **Interface Board Series 5100** is currently not supported.
- Image rotation (“Corridor mode”) is currently only available for streaming, not for JPEG.

UPDATING THE FIRMWARE

The firmware update to version **10.2.1.12** can be downloaded free of charge from the **Download Centre** at www.dallmeier.com.

The firmware update is performed over the local area network (LAN) using the **PService3** software, which can also be downloaded free of charge from the **Download Centre** at 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).

I Performing the Update

1. Go to the **Download Centre** at www.dallmeier.com and download the firmware update (zipped folder with update file and license text) valid for your IP device.
2. Unzip the zipped (compressed) folder after downloading to any local directory on your hard disk.
3. Run **PService3**.
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.



You can also update your camera directly via the WebConfig user interface of the camera itself ("Service" dialog > "System state" tab).

NEW FEATURES AND CHANGES

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

I Setting Options for Gamma Curve Extended

This firmware release introduces the following new “Gamma curve” setting options:

- Low contrast
- Highlights



Starting with this firmware version, the “Gamma curve” setting is only available in the “Image optimization” tab if the “Auto contrast” setting is disabled.

The gamma curve setting mainly affects the relative distribution of brightness in the mid-tones of an image. Gamma curve adjustment is especially useful for scenes with a high dynamic range to preserve details in very bright and/or very dark tonal ranges (highlights and shadows) while simultaneously influencing the contrast in the mid-tonal range.

With this firmware version the following settings are available now:

- Default:
Standard video gamma curve > uniform distribution of relative brightness in the mid-tonal range for typical video-look
- High contrast:
Steeply rising gamma curve > stronger image characteristics with more contrast; useful, for example, to produce clearer and more crisp images in scenes with fog, smog and haze
- Low contrast:
Flat gamma curve > smoother image characteristics with less contrast (may reproduce images more flat and dull)
- Highlights:
Details in the brightest areas of the image are largely preserved, while details in very dark areas can be lost; useful e.g. in casino environments for the recognition and differentiation of playing cards together with light-reflecting chips on a poker table

| New Password Security Option

This firmware release introduces a new password security option that forces the assignment of a strong password according to a predefined password policy when adding or editing a user. The new password security option is enabled by default after the firmware update, but can be disabled in the “User management” tab if required.

| Privacy Zones

With this firmware version, optimizations for drawing and saving privacy zones have been implemented. When drawing or modifying a privacy zone, a visual feedback is now displayed in the preview image immediately after releasing the mouse button. This feedback temporarily blocks further user actions in the preview image until the internal saving process of the last modification is successfully completed. This greatly improves the reliability of the saving process and the display accuracy of privacy zones.

| Export/import of Parameters

With this firmware version, optimizations for the export and import of configuration parameters have been implemented.

| General Minor Bug Fixes and Improvements in System Stability and Performance

This firmware release includes general minor bug fixes and improvements in system stability and performance.

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.10.2.1.12 | Release Date: 2020-08-11

- “Gamma curve” image setting extended by “Low contrast” and “Highlights” setting options
- Availability of “Gamma curve” image setting changed (as of this version only available if “Auto contrast” image setting is disabled)
- User management:
New option for improving password security added (forces the assignment of a strong password according to a predefined password policy when adding or editing a user)
- Privacy zones:
 - Optimizations for drawing and saving privacy zones implemented
 - Optimizations regarding the accuracy of stored privacy zones implemented
- Optimizations regarding the export and import of configuration parameters implemented
- General minor bug fixes and improvements in system stability and performance

V.10.1.2.4 | Release Date: 2019-03-29

- Corridor mode added:
Client-side image rotation for monitoring vertically oriented (portrait) scenes such as long rooms (passages, hallways, corridors), streets and sidewalks, railway platforms or perimeter fences
- 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 refreshing of info data (current device uptime, CPU utilization and network utilization) at every 1 second implemented
- General minor bug fixes, stability improvements and security updates with severity rating “low”

V.10.1.0.5 | Release Date: 2018-11-16

- Internal buffering and memory management improved

V.10.1.0.4 | Release Date: 2018-05-22

- Initial release for:
 - DDF5120HD-DN-SM (Indoor)
 - DDF5140HD-DN-SM (Indoor)
- ONVIF Profile T conformance test passed



No separate “Technical Information” has been created for this firmware version.

- Initial release for:
 - DDF5120HDV-DN-IM
 - DDF5140HDV-DN-IM
 - DDF5120HDV-DN-SM
 - DDF5140HDV-DN-SM
 - DF5120HD-DN/IR
 - DF5140HD-DN/IR



No separate “Technical Information” has been created for this firmware version.

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