

TECHNICAL INFORMATION

CAMERA FIRMWARE
V.11.1.1.17
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	Module/Fisheye Cameras
<ul style="list-style-type: none">• DDF5250HDV-DN-IM• DDF5450HDV-DN-IM• DDF5250HDV-DN-SM• DDF5450HDV-DN-SM	<ul style="list-style-type: none">• DF5250HD-DN/IR• DF5450HD-DN/IR	<ul style="list-style-type: none">• SDF5450HD-DN• MDF5250HD-DN• MDF5450HD-DN
Panomera® S Series (Mountera®)	Panomera® W Series (Mountera®)	
<ul style="list-style-type: none">• Panomera® S4 Topline• Panomera® S8 Topline• Panomera® S8 Ultraline	<ul style="list-style-type: none">• Panomera® W4 Ultraline• Panomera® W8 Ultraline	

Table 1-1

The descriptions in this document are based on the firmware version **11.1.1.17**.

1.4 COMPATIBILITY

The firmware version **11.1.1.17** 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
- Panomera® AutoCalibration 2 as of version 2.2.11.28

1.5 GENERAL NOTES

Note that

- the firmware update to version **11.1.1.17** 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).

UPDATING THE FIRMWARE

The firmware update to version **11.1.1.17** 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).

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.

After installing this firmware update on Panomera® systems, a downgrade to firmware version 11.1.0.xx is no longer possible.

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

Display of the Corridor Mode in Third-Party Applications (Single-Sensor Cameras Only)

With this firmware version, the “Corridor mode” feature in the “Video” dialog has been revised.

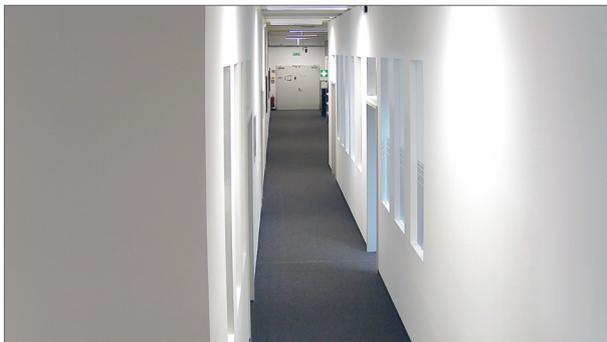
 The “Corridor mode” feature is only available on single-sensor cameras (except fisheye models).

With previous firmware versions the “Corridor mode” option set on the camera (“Rotate 90° clockwise”, “Rotate 90° counterclockwise” or “180°”) was only automatically recognized by compatible Dallmeier client software (e.g. SMAVIA Viewing Client) and the captured images were displayed correctly rotated accordingly (client-side image rotation).

Starting with this firmware version, displaying images in corridor mode is also correctly handled by third-party applications, such as when requesting the respective encoder stream via RTSP (encoder-side image rotation).

The corridor mode is particularly suitable for monitoring vertically oriented scenes such as long rooms (passages, hallways, corridors), streets and sidewalks, railway platforms or perimeter fences.

First, the camera or lens/sensor unit is physically rotated during installation so that the scene is not captured in an aspect ratio of 16:9 or 4:3 (landscape format) as usual, but in 9:16 or 3:4 (portrait format). Thus, the full available sensor resolution can be used exclusively for important image areas. Encoding, network transmission, recording and later decoding of superfluous information on the sides of the image can be avoided. During playback and evaluation of the video material, the images are then automatically displayed correctly rotated for the operator applying the previously selected corridor mode setting.



Full HD resolution,
sensor aspect ratio 16:9,
no physical camera rotation,
Corridor mode > Off



Full HD resolution,
sensor aspect ratio 9:16,
physical camera rotation by 90°,
Corridor mode > Off



Full HD resolution,
sensor aspect ratio 9:16,
physical camera rotation by 90°,
Corridor mode > Rotation by 90°

| 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.

| MDF5250HD-DN: Header Image of WebConfig User Interface Changed

Starting with this firmware version, the correct header image for the camera model MDF5250HD-DN is displayed in the header of the WebConfig user interface.

| Resolution 3312 × 2488 Pixels

Starting with this firmware version, the resolution 3312 × 2488 pixels (4:3; 8.2 MP) is supported.

| ONVIF Conformance (Profile T)

Starting with this firmware version, all single-sensor cameras (except fisheye models) and Panomera® systems described in this document comply with the ONVIF Profile T specification (successfully passed the test routines with ONVIF Device Test Tool v20.06 rev. 6086) and thus offer highest interoperability with IP-based video systems from various manufacturers that support the same ONVIF profile.

| Security Updates With Severity Rating “Low”

This firmware release includes the following security updates with severity rating “low”:

- Security patch for integrated NTP daemon (Network Time Protocol)

| 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.11.1.1.17 | Release Date: 2020-08-04

Downgrade of Panomera® systems to V.11.1.0.xx no longer possible.

- “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)
- “Corridor mode” revised (only for single-sensor cameras; except fisheye models):
Support for correctly rotated images in third-party applications implemented (encoder-side image rotation)
- 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
- Header image in WebConfig user interface of MDF5250HD-DN changed
- Resolution 3312 × 2488 pixels added
- ONVIF Profile T conformance test passed (does not apply to fisheye models)
- Security patch for integrated NTP daemon (Network Time Protocol) implemented
- General minor bug fixes and improvements in system stability and performance

V.11.1.0.26 | Release Date: 2020-02-07

- Initial release for:
 - Panomera® S4 Topline (Mountera®)
 - Panomera® S8 Topline (Mountera®)
 - Panomera® S8 Ultraline (Mountera®)
 - MDF5250HD-DN
 - MDF5450HD-DN
- Integrated fans of Panomera® systems switched to permanently active
- Optimized activation of Video Content Analysis functions
- General minor bug fixes and improvements in system stability and performance

V.11.1.0.17 | Release Date: 2019-08-08

- Initial release for:
 - Panomera® W4 Ultraline (Mountera®)
 - Panomera® W8 Ultraline (Mountera®)
- General minor bug fixes and improvements in system stability and performance

 *No separate "Technical Information" has been created for this firmware version.*

V.11.1.0.15 | Release Date: 2019-07-26

- Initial release for:
 - DDF5250HDV-DN-IM
 - DDF5450HDV-DN-IM
 - DDF5250HDV-DN-SM
 - DDF5450HDV-DN-SM
 - DF5250HD-DN/IR
 - DF5450HD-DN/IR
 - SDF5450HD-DN

 *No separate "Technical Information" has been created for this firmware version.*



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