

TECHNICAL INFORMATION

**CAMERA FIRMWARE**  
**V.12.2.2.5**  
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](mailto: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](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:

| <b>PTZ Cameras<br/>(with integrated IR illumination)</b>   | <b>PTZ Cameras<br/>(Indoor Series)</b>  | <b>PTZ Cameras<br/>(Outdoor Series)</b>  |
|--|---|--|
| Mountera® Quick-Lock System: <ul style="list-style-type: none"><li>• DDZ5236HD-DN/IR</li><li>• DDZ5436HD-DN/IR</li></ul> | In-ceiling mount variants: <ul style="list-style-type: none"><li>• DDZ5220HD Indoor IM</li><li>• DDZ5232HD Indoor IM</li></ul><br>Surface mount variants: <ul style="list-style-type: none"><li>• DDZ5220HD Indoor SM</li><li>• DDZ5232HD Indoor SM</li></ul> | Mountera® Quick-Lock System: <ul style="list-style-type: none"><li>• DDZ5220HD Outdoor</li><li>• DDZ5232HD Outdoor</li></ul> |

Table 1-1

The descriptions in this document are based on the firmware version **12.2.2.5**.

## 1.4 COMPATIBILITY

The firmware version **12.2.2.5** 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
- SeMSy® Compact as of software version 5.0.42
- HEMISPHERE® SeMSy® Video Management System as of version 5.0.95

## 1.5 GENERAL NOTES

Note that

- the firmware update to version **12.2.2.5** 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)).

# UPDATING THE FIRMWARE

The firmware update to version **12.2.2.5** can be downloaded free of charge from the **Download Centre** at [www.dallmeier.com](http://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](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. Go to the **Download Centre** at [www.dallmeier.com](http://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 **15 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.

## **DDZ5000HD-DN/IR Series: Integrated Infrared (IR) Illumination and Digital Zoom**

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This firmware release fixes an issue that caused the intensity and beam angle of the integrated infrared (IR) illumination to be automatically adjusted when using the digital zoom feature.

## **Digital Image Stabilization + Digital Zoom**

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In previous firmware versions, the simultaneous use of digital image stabilization (“Image” dialog > “Image optimization” tab) and digital zoom (“PTZ control” dialog) may have caused a degradation of image quality.

With this firmware release, the option to use both functions in combination is therefore disabled and a corresponding note is displayed in case of attempting to do so.

## **Slow Shutter Limit**

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This firmware release removes all slow shutter limits for the maximum permissible automatic exposure time (“Image” dialog > “Exposure settings” tab) that are longer than 1/25th of a second.

## **Privacy Zones**

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This firmware release optimizes the display accuracy of stored privacy zones during pan and tilt movements.

## **General Minor Bug Fixes and Improvements in System Stability and Performance**

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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.12.2.2.5 | Release Date: 2020-12-09

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- Integrated infrared (IR) illumination DDZ5000HD-DN/IR series:
  - Problem with unwanted automatic readjustment of IR intensity and beam angle when using digital zoom fixed
- Option to use digital image stabilization and digital zoom both at the same time disabled
- Slow shutter limit:
  - Setting values for maximum permissible automatic exposure time longer than 1/25th of a second removed
- Privacy zones:
  - Optimizations regarding the display accuracy of stored privacy zones during pan/tilt movements implemented
- General minor bug fixes and improvements in system stability and performance

## V.12.2.1.8 | Release Date: 2020-07-24

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- Initial release for DDZ5200HD Indoor series:
  - DDZ5220HD Indoor IM
  - DDZ5232HD Indoor IM
  - DDZ5220HD Indoor SM
  - DDZ5232HD Indoor SM
- Initial release for DDZ5200HD Outdoor series:
  - DDZ5220HD Outdoor
  - DDZ5232HD Outdoor
- New features and changes of the previous firmware version implemented and merged with the current firmware version
- Internal firmware of encoder chip updated
- Privacy zones:
  - Setting for zoom limit added, which specifies the minimum required zoom level for a previously defined privacy zone to be displayed in the image
- PTZ control:
  - Text overlay setting added to display the name of the currently called camera position preset
  - Text overlay setting added to display the current pan/tilt position
  - Text overlay setting added to display the current zoom level
- General minor bug fixes and improvements in system stability and performance



#### V.12.2.0.4 | Release Date: 2020-02-06

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Firmware version compatible with DDZ5436HD-DN/IR only

- Privacy zones:
  - Optimizations for drawing and saving privacy zones implemented
  - Optimizations regarding the accuracy of stored privacy zones implemented
- User management:
  - Setting added to force a secure password when creating or editing a user (assignment of a strong password according to predefined password policy)
- PTZ control:
  - Setting for limiting the maximum digital zoom factor (digital zoom limit) added
- General minor bug fixes and improvements in system stability and performance

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

#### V.12.1.0.4 | Release Date: 2019-05-24

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- Autofocus performance at low light situations improved
- Autofocus performance during activated IR-illumination improved
- ONVIF Profile S & Profile T conformance test passed
- OSD (On-Screen Display) date/time information removed
- Firmware update dialog in WebConfig user interface improved
- Support for encrypted update files added
- Support for update feedback via DaVid protocol (for PService3) added
- Support for Keystore configuration via DaVid protocol added
- General minor bug fixes and improvements in system stability and performance

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

#### V.12.0.1.3 | Release Date: 2019-01-29

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- Initial release for DDZ5000HD-DN/IR series:
  - DDZ5236HD-DN/IR
  - DDZ5436HD-DN/IR

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

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