

Firmware Version

8.3.3.10

Dome Cameras

DDF5400HDV-DN

DDF5300HDV-DN

DDF5200HDV-DN

Box Cameras

DF5300HD-DN

DF5200HD-DN

IR Cameras

DF5400HD-DN/IR

DF5200HD-DN/IR

DF5200HD-IR-ANPR

Module Camera

MDF5200HD-DN

Panomera®

Nightline-Serie

Topline-Serie

Ultraline-Serie

English

1 Abstract

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 provides a tabular overview of the major innovations and changes that have been introduced with the various firmware releases (change history).

2 Validity

This document applies to the following devices:

Dome Cameras	Box Cameras	IR Cameras	Module Camera
• DDF5400HDV-DN	• DF5300HD-DN	• DF5400HD-DN/IR	• MDF5200HD-DN
• DDF5300HDV-DN	• DF5200HD-DN	• DF5200HD-DN/IR	
• DDF5200HDV-DN		• DF5200HD-IR-ANPR	

Panomera®

- Nightline-Serie
- Topline-Serie
- Ultraline-Serie

The descriptions in this document are based on the firmware version **8.3.3.10**.

3 Compatibility

The firmware version **8.3.3.10** is compatible with the following hardware and software:

- SMAVIA appliances as of firmware version 8.x.11 SP C
- SMAVIA Viewing Client as of software version 2.4.18
- SMAVIA Viewer as of software version 2.4.18
- Dallmeier Live Video ActiveX¹⁾ control as of version 1.3.1.10

¹⁾ ActiveX is a trademark or registered trademark of Microsoft Corporation headquartered in Redmond, Washington, USA.

4 General Notes

Note that

- the firmware update to version **8.3.3.10** 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 data sheet of your device at www.dallmeier.com).

5 Update Procedure

The firmware update to version **8.3.3.10** can be downloaded free of charge from the corresponding product pages at www.dallmeier.com.

The update is performed over the network using the **PService3** software which is also available for download free of charge 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. Download the firmware update (zipped folder with update file and license text) from the corresponding product page at 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 PService3.
4. Follow the instructions for updating your device in the relevant PService3 documentation.
5. Select the unzipped update file with the *.sh file extension for the firmware update of your device.

NOTICE:

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

6. Enter the login credentials to access your device if necessary.
7. Click "OK" and confirm the start of the firmware update process in the subsequent info dialog.

The update process is then started.

NOTICE:

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

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

^{*)} WinZip is a trademark or registered trademark of WinZip International LLC headquartered in Storrs Mansfield, Connecticut, USA.

New Features and Changes

Video Content Analysis (VCA) on single-sensor cameras of the 5300 & 5400 series

Description	<p>Already with firmware version 8.3.2.19, single-sensor cameras of the 5200 series^[1] have supported the “Video Content Analysis (VCA)” function (only available as a factory pre-installed function).</p> <p>[1] except for the DF5200HD-IR-ANPR</p> <p>As of the current firmware version, the camera-based intelligent video analysis is also supported by the following single-sensor cameras:</p> <p>Dome Cameras</p> <ul style="list-style-type: none"> • DDF5400HDV-DN • DDF5300HDV-DN <p>Box Camera</p> <ul style="list-style-type: none"> • DF5300HD-DN <p>IR Camera</p> <ul style="list-style-type: none"> • DF5400HD-DN/IR <p>However, in contrast to single-sensor cameras of the 5200 series, the following preconditions/restrictions apply to the use of the VCA function for the above-mentioned cameras:</p> <ol style="list-style-type: none"> 1. In the encoder settings, only Stream 1 and Stream 2 may be activated (i.e. the CVBS or HDMI output can therefore not be used). 2. The respective bit rates set for Stream 1 and Stream 2 must not exceed 16 Mbps. 3. The maximum selectable (internal) analysis input resolution in the VCA expert settings is 320 × 240 pixels. <p>Also note that the VCA feature is generally only available as a factory pre-installed function.</p>		
Availability	Update	X	Reinstallation
Hardware	Necessary	X	Not necessary
Requirements	<ul style="list-style-type: none"> • SMAVIA appliances as of firmware version 8.x.11 SP C • SMAVIA Viewing Client as of software version 2.4.18 		

ONVIF conformance (Profile S)

Description	<p>As of the current firmware version, all single-sensor cameras and Panomera® multifocal sensors systems described in this document are ONVIF compliant according to the latest Profile S specification (successfully validated with ONVIF test tool against the test routines of the ONVIF test specification v17.01), thus providing effective interoperability with ONVIF compliant IP-based video systems from other manufacturers.</p>		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

One-push white balance

Description	In previous firmware versions, using the one-push white balance in combination with certain settings could result unintentionally in a bluish image. This problem has been fixed with the current firmware version.			
Availability	X	Update	X	Reinstallation
Hardware		Necessary	X	Not necessary
Requirements				

General minor bug fixes and stability improvements

Description	The current firmware version includes several general minor bug fixes and stability improvements.			
Availability	X	Update	X	Reinstallation
Hardware		Necessary	X	Not necessary
Requirements				

6 Change History

Below you will find a tabular overview of the major innovations and changes that have been introduced with the various firmware releases (change history).

X = New/changed feature available in firmware version

O = New/changed feature not available in firmware version

New/Changed Feature	Firmware Version											
	8.1.0.9	8.1.1.21	8.2.0.12	8.2.1.12	8.2.1.15	8.2.1.21	8.2.1.35	8.3.0.11	8.3.2.12	8.3.2.19	8.3.2.22	8.3.3.10
Presets for SEDOR® Intruder	O	X	X	X	X	X	X	X	X	X	X	X
Exposure priority function	O	X	X	X	X	X	X	X	X	X	X	X
Privacy zones in conjunction with “Flip” function	O	X	X	X	X	X	X	X	X	X	X	X
Completion and synchronization of time zones	O	X	X	X	X	X	X	X	X	X	X	X
Optimum allocation of timestamps	O	X	X	X	X	X	X	X	X	X	X	X
“EdgeStorage for Emergency Recording with Smart Backfill” function added	O	O	X	X	X	X	X	X	X	X	X	X
Basic network settings – validation of host name added	O	O	X	X	X	X	X	X	X	X	X	X
Handling of space characters and plus signs in user and group names corrected	O	O	X	X	X	X	X	X	X	X	X	X
MJPEG live video over TCP corrected	O	O	X	X	X	X	X	X	X	X	X	X
Auto-correction of overlong camera names added	O	O	X	X	X	X	X	X	X	X	X	X
H.264 live video over RTSP – compatibility with Apple ^{*)} QuickTime ^{*)} Player added	O	O	X	X	X	X	X	X	X	X	X	X
<small>^{*)} Apple and QuickTime are trademarks or registered trademarks of Apple Inc. headquartered in Cupertino, California, USA.</small>												
Default GoP size (H.264) changed to 24 frames	O	O	X	X	X	X	X	X	X	X	X	X
Resolution 1440 × 1080 pixels added	O	O	X	X	X	X	X	X	X	X	X	X
“Digital Image Shift” function added	O	O	X	X	X	X	X	X	X	X	X	X
Import/export of configuration settings completed	O	O	X	X	X	X	X	X	X	X	X	X
Audio support added	O	O	X	X	X	X	X	X	X	X	X	X

New/Changed Feature	Firmware Version											
	8.1.0.9	8.1.1.21	8.2.0.12	8.2.1.12	8.2.1.15	8.2.1.21	8.2.1.35	8.3.0.11	8.3.2.12	8.3.2.19	8.3.2.22	8.3.3.10
Panomera®: Exposure and focus control at low frame rates optimized	O	O	O	X	X	X	X	X	X	X	X	X
Compatibility check of update files for Panomera® Multifocal Sensor Systems added	O	O	O	X	X	X	X	X	X	X	X	X
Internal SDK updated for overall system stability and performance improvements	O	O	O	X	X	X	X	X	X	X	X	X
Security patch implemented to fix critical web server vulnerability	O	O	O	X	X	X	X	X	X	X	X	X
Support for direct export of encrypted camera support file via PService3 added	O	O	O	X	X	X	X	X	X	X	X	X
Several network parameters for use in low-bandwidth network environments improved	O	O	O	X	X	X	X	X	X	X	X	X
TCP live connection issues during “SmartBackfill” resolved	O	O	O	O	X	X	X	X	X	X	X	X
DaVid protocol for Panomera® AutoCalibration tool extended (Panomera® Nightline series)	O	O	O	O	X	X	X	X	X	X	X	X
Bootloader issues when reading information from flash memory during startup resolved	O	O	O	O	X	X	X	X	X	X	X	X
Audio support for MDF5200HD-DN (DHD129-xxxxxxx) added	O	O	O	O	O	X	X	X	X	X	X	X
“Preset automatic” feature changed (always starts with “Day” preset now)	O	O	O	O	O	X	X	X	X	X	X	X
Manual white balance issues after camera reboot resolved	O	O	O	O	O	X	X	X	X	X	X	X
“EdgeStorage” – support for microSDXC cards up to 64 GB added	O	O	O	O	O	O	X	X	X	X	X	X
<small>*) microSDXC is a trademark or registered trademark of SD-3C, LLC headquartered in North Hollywood, California, USA.</small>												
Resolution 1920 × 1200 pixels (16:10) added	O	O	O	O	O	O	X	X	X	X	X	X
Setting for bandwidth limit (per stream) added	O	O	O	O	O	O	X	X	X	X	X	X
Internal buffering improved	O	O	O	O	O	O	X	X	X	X	X	X
WebConfig user interface improved	O	O	O	O	O	O	X	X	X	X	X	X

New/Changed Feature	Firmware Version											
	8.1.0.9	8.1.1.21	8.2.0.12	8.2.1.12	8.2.1.15	8.2.1.21	8.2.1.35	8.3.0.11	8.3.2.12	8.3.2.19	8.3.2.22	8.3.3.10
Initial release for Ultraline series	O	O	O	O	O	O	O	X	X	X	X	X
„EdgeStorage for Emergency Recording with Smart Backfill“ function optimized	O	O	O	O	O	O	O	X	X	X	X	X
DHCP support added	O	O	O	O	O	O	O	X	X	X	X	X
MTU settings added	O	O	O	O	O	O	O	X	X	X	X	X
5200 (Nightline) series: • Frame rate 50/60 fps@1080p added • Frame rate 100/120 fps@720p added	O	O	O	O	O	O	O	X	X	X	X	X
5300 (Topline) series: • Frame rate 50/60 fps@1080p added	O	O	O	O	O	O	O	X	X	X	X	X
“Analytic” preset added	O	O	O	O	O	O	O	X	X	X	X	X
“Panomera® Stadium” preset added	O	O	O	O	O	O	O	X	X	X	X	X
“Text overlay” settings extended	O	O	O	O	O	O	O	X	X	X	X	X
ONVIF Profile S interoperability extended	O	O	O	O	O	O	O	X	X	X	X	X
DDF5300HDV-DN: Specific video resolutions for casino applications added	O	O	O	O	O	O	O	X	X	X	X	X
Encoder performance optimized	O	O	O	O	O	O	O	X	X	X	X	X
Panomera® module synchronization optimized	O	O	O	O	O	O	O	X	X	X	X	X
Support for analog audio output (talkback capability) added	O	O	O	O	O	O	O	O	X	X	X	X
HTTPS added	O	O	O	O	O	O	O	O	X	X	X	X
Reboot problem after day/night switching resolved	O	O	O	O	O	O	O	O	X	X	X	X
Reboot permission via PService3 changed	O	O	O	O	O	O	O	O	X	X	X	X
Problem with video recording quality of 5MP@25/30 fps via recorder configuration resolved	O	O	O	O	O	O	O	O	X	X	X	X
Initial release for IR camera DF5400HD-DN/IR	O	O	O	O	O	O	O	O	X	X	X	X
Video Content Analysis (VCA) feature added	O	O	O	O	O	O	O	O	O	X	X	X
Resolution 3312 × 2488 pixels added (only to Panomera® models of the Ultraline series)	O	O	O	O	O	O	O	O	O	X	X	X
Russian translation optimized	O	O	O	O	O	O	O	O	O	X	X	X
Appearance and behavior of graphical user interface (GUI) in Chrome ^{*)} and Opera ^{*)} web browsers optimized	O	O	O	O	O	O	O	O	O	X	X	X
<small>All trademarks identified by ^{*)} are trademarks or registered trademarks of the following owners: Chrome of Google Inc. headquartered in Mountain View, California, USA; Opera of Opera Software AS headquartered in Oslo, Norway.</small>	O	O	O	O	O	O	O	O	O	X	X	X
Problem with drawing multiple privacy zone masks resolved	O	O	O	O	O	O	O	O	O	X	X	X
SSH port security enhancements	O	O	O	O	O	O	O	O	O	X	X	X

New/Changed Feature	Firmware Version											
	8.1.0.9	8.1.1.21	8.2.0.12	8.2.1.12	8.2.1.15	8.2.1.21	8.2.1.35	8.3.0.11	8.3.2.12	8.3.2.19	8.3.2.22	8.3.3.10
Problem with Day/Night filter shifter in models of the Ultraline series fixed	O	O	O	O	O	O	O	O	O	O	X	X
General minor bug fixes and stability improvements	O	O	O	O	O	O	O	O	O	O	X	X
Video Content Analysis (VCA) on single-sensor cameras of the 5300 & 5400 series added	O	O	O	O	O	O	O	O	O	O	O	X
ONVIF (Profile S) conformance test passed	O	O	O	O	O	O	O	O	O	O	O	X
Problem with one-push white balance (bluish image) fixed	O	O	O	O	O	O	O	O	O	O	O	X

X = New/changed feature available in firmware version

O = New/changed feature not available in firmware version

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