



From

STDN/PRM

Product Management

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Nuremberg

06.12.2012

Release Letter

Products:	<i>H.264 Firmware for</i> CPP3 cameras and encoders CPP4 HD cameras CPP-ENC H.264 encoders
Version:	<i>5.60.1206</i>

This letter contains latest information about the above mentioned firmware version.

1 General

This firmware release 5.60.1206 is a maintenance release based on the former release 5.52.1126. It is a combined firmware package, applicable to all H.264 products based on one of the following platforms.

The platforms have been renamed for a more generic recognition to "Common Product Platform", short CPP, followed by the architecture-related number or suffix. The filenames are adapted accordingly.

This firmware supports:

- CPP3 cameras and encoders
 - update from FW 4.54.0026 or newer
- CPP4 HD cameras
 - update from FW 5.01 or newer
- CPP-ENC
 - VIP-X1600-XFM4 encoders: update from FW 4.2x or newer to FW 5.52



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Note:

To upgrade to a firmware version 5.6x using this combined firmware package, firmware versions before 5.5x require an intermediate update cycle using the respective platform firmware version mentioned above.

The combined firmware package includes the following build versions:

- CPP3 H.264 5.60.0063
- CPP4 H.264 5.60.0063
- CPP-ENC H.264 5.60.0054 for VJT XF family
- CPP-ENC H.264 5.52.0015 for VIP X1600 XFM4

For detailed description please refer to the separate release letters.

2 Applicable products:

CPP4 (formerly IPBE4)

- DINION HD 1080p HDR, NBN-932V-IP
- FLEXIDOME HD 1080p HDR, NDN-832V0x-IP
- DINION HD 1080p, NBN-832V-xP
- FLEXIDOME HD 1080p, NDN-832V0x-xP
- DINION HD 720p, NBN-733V-xP *
- FLEXIDOME HD 720p, NDN-733V0x-xP *
- Indoor Minidome 1080p, NDC-274-Px
- Indoor Minidome 5 MP, NDC-284-PT

CPP-ENC (formerly VIPX H.264)

- VIP-X1600-XFM4
- VJT-X20/X40XF-E
- VJT-XTCXF *

(* new with this release)



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CPP3 (formerly IPBE3)

- AutoDome Easy II IP series
- AutoDome Junior HD, Jr HD fix
- AutoDome 700 IP IVA
- AutoDome 800
- AutoDome Junior 800
- VG4 AutoDome IP series
- VG5 AutoDome IP series
- DINIONDINION XF 720p+, NBN-921-P
- DINION XF, NBC-455-P
- DINION 2X, NBN-498-P
- FLEXIDOME XF 720p+, NDN-921-P
- FLEXIDOME XF, NDC-455-P
- FLEXIDOME 2X, NDN-498-P
- Economy Box Cameras, NBC-225 series, NBC-255 series, NTC-255-PI
- Economy Dome Cameras, NDC-225 series, NDC-255 series
- Economy HD Box Cameras, NBC-265 series, NTC-265-PI
- Economy HD Dome Cameras, NDC-265 series, NDN-265-PIO
- Extreme series EX30 IR, NEI-30 IR Imager
- Far Infra-Red camera, VOT-320
- VIP X1 XF Single-Channel H.264 Encoder
- WLAN cameras NBC-255-W and NBC-265-W
- Economic version VIP-X1XF-E
- Video Conference Dome IVA
- REG 1.5 IP and REG L2
- MIC IP PSU



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3 New main features

- Support of DINION and FLEXIDOME 720p60 cameras NBN-733 and NDN-733
- Support of VJT XTC XF transcoder

Transcoder

- Dynamic Transcoding for live view and advanced remote replay on two simultaneous channels up to 1080p30 enables HD video over bandwidth-limited connections.
- Region-of-interest encoding on both live view and recording
- Forensic Search via Web browser or Bosch Video Security iPad App

Encoder

- “Virtual cameras” through second instance of region-of-interest (ROI) stream 2, fully supporting independent electronic pan/tilt/zoom, session-based addressable
- Upright 9:16 ROI cut-out for portrait view (corridor mode)
- 4:3 ROI cut-out (D1/4CIF) to serve “old-world” viewing systems
- Area-based encoding to reduce unnecessary bandwidth. Up to 8 regions can be set for better or flawed encoding, depending on interest or importance of area.
- New SEI (supplemental enhancement information) packets are added to the video stream, providing information about timestamp and timezone of originating device, geographic information based on world coordinates, only available when fully calibrated, PTZ positions, and ROI cut-out positions.
- Auxiliary data packets are added to the AAC audio stream, providing information about timestamp and timezone of originating device.

Recording

- Fixed ROI recording, with E-PTZ off
- Support Dropbox cloud based storage as export location
- Accounts for FTP and Dropbox, 4 accounts possible.

VCA

- Object tracker for E-PT-capable box cameras and ROI
- Face detection and Smart Search for faces, including rule engine syntax elements for best face, face quality and face size.
Faces can be exported as high-detail JPEGs to configured accounts for further processing.



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Miscellaneous

- Out-of-the-box support for Bosch Cloud-based Security & Services(CbS)
- Lease time for electronic pan/tilt/zoom (E-PTZ) of ROI, similar to true PTZ cameras
- Dynamic DNS extension to alternative providers no-ip.com and selfhost.de
- Central URL <http://downloadstore.boschsecurity.com> where devices automatically check for new FW when Internet access is provided.
- A JPEG thumbnail image is returned in auto-detect reply after network scan.
- ONVIF conformance to Profile S, validated with recent ONVIF test tool 12.06, with additional beta features of Profile G, like search service and replay service.

Please check the release letter of a platform firmware for specific features respectively the IVA 5.6 release letter.

4 Restrictions; Known Issues

- This firmware and its included platform firmware builds are not applicable to MPEG-4 products.
- For CPP-ENC (formerly VIPX H.264) only English-German is included. Other language firmware files can be downloaded from the product catalogue in the respective product folders.
- The final firmware version for VIP-X1600-XFM4 modules is FW 5.52. FW 5.60 can not be loaded onto these modules.
- The Combined Firmware file does not load onto VG4 AutoDome or AutoDome Easy II via the browser when running a firmware version before 5.52.0017. The specific platform file should be used instead.

Please check the respective release letter of a camera or encoder for further device-specific restrictions.



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5 System Requirements

Possible clients for configuration purposes:

- Configuration Manager 4.40 or newer
- Web Browsers:
 - Microsoft Internet Explorer 8.0 or higher
 - Mozilla Firefox

Possible clients for operation purposes:

- Bosch Video Security iPad App 1.0
- Web Browsers:
 - Microsoft Internet Explorer 9.0 or higher
 - Mozilla Firefox
- BVC 1.4 or newer
- Oracle Java Virtual Machine 1.6.0_35
- DirectX 9.0c
- MPEG-ActiveX 5.60 or newer