



From
ST-VS/MKP1

Product Management

Nuremberg
28.04.2017

Release Letter

Products:	<i>Combined H.264 Firmware for CPP7 HD/MP cameras CPP6 UHD/MP cameras CPP5 encoders CPP4 HD cameras CPP3 cameras and encoders CPP-ENC H.264 encoders</i>
Version:	6.32.1621

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

1 General

This firmware release is a combined firmware package, applicable to H.264 products based on one of the following platforms.

Changes since last release are marked in [blue](#).



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This firmware supports:

- CPP7 UHD cameras
 - update from FW 6.30 or newer to latest FW 6.32
- CPP6 UHD cameras
 - update from FW 6.10 or newer to latest FW 6.32
- CPP5 encoders
 - update from FW 5.91 or newer to FW 6.30
- CPP4 HD cameras
 - update from FW < 6.10 to intermediate FW 6.11
 - update from FW 6.10 or newer to latest FW 6.32
- CPP3 cameras and encoders
 - update from FW 4.54.0026 or newer to latest FW 5.74
- CPP-ENC
 - VIP-X1600-XFM4 encoders: update from FW 4.2x or newer to latest FW 5.53
 - VJT XF and VJD-3000 update to latest FW 5.97

The combined firmware package includes the following build versions:

- [CPP7 H.264 6.32.0111](#)
- [CPP6 H.264 6.32.0111](#)
- [CPP5 H.264 6.30.0047](#)
- [CPP4 H.264 6.32.0111](#)
- [CPP4 H.264 6.11.0021](#)
- [CPP3 H.264 5.74.0004](#)
- [CPP-ENC H.264 5.97.0005 for VJT XF family, VJD-3000 and VJC-7000](#)
- [CPP-ENC H.264 5.53.0004 for VIP X1600 XFM4](#)

For detailed description please refer to the separate release letters.

Note:

Due to an internal file system being introduced to CPP4 and CPP6 since firmware 6.10 and architectural changes thereof, a direct upgrade from firmware below version 6.10 to latest firmware is only possible via intermediate firmware 6.1x.

CPP4 cameras with firmware versions below 6.10 need to upload this package twice.

Note:

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

Note:

This combined firmware cannot be applied to CPP5 products with firmware version older than 5.91. It is required to upgrade to intermediate firmware 5.91 first.



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2 Applicable products:

CPP7

- DINION IP starlight 6000
- DINION IP starlight 7000
- FLEXIDOME IP starlight 6000
- FLEXIDOME IP starlight 7000
- DINION IP thermal 8000

CPP6

- DINION IP starlight 8000 12MP
- DINION IP ultra 8000 12MP
- DINION IP ultra 8000 12MP with C/CS mount telephoto lens
- FLEXIDOME IP panoramic 7000 12MP 180
- FLEXIDOME IP panoramic 7000 12MP 360
- FLEXIDOME IP panoramic 7000 12MP 180 IVA
- FLEXIDOME IP panoramic 7000 12MP 360 IVA
- FLEXIDOME IP panoramic 6000 12MP 180
- FLEXIDOME IP panoramic 6000 12MP 360
- FLEXIDOME IP panoramic 6000 12MP 180 IVA
- FLEXIDOME IP panoramic 6000 12MP 360 IVA

CPP5

- VIDEOJET multi 4000
- VIP-X16XF-E



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CPP4 (formerly IPBE4)

- AUTODOME IP 4000 HD
- AUTODOME IP 5000 HD
- AUTODOME IP 5000 IR
- AUTODOME 7000 series
- DINION HD 1080p
- DINION HD 1080p HDR
- DINION HD 720p
- DINION imager 9000 HD
- DINION IP bullet 4000
- DINION IP bullet 5000
- DINION IP 4000 HD
- DINION IP 5000 HD
- DINION IP 5000 MP
- DINION IP starlight 7000 HD
- EXTEGRA IP dynamic 9000
- EXTEGRA IP starlight 9000
- FLEXIDOME corner 9000 MP
- FLEXIDOME HD 1080p
- FLEXIDOME HD 1080p HDR
- FLEXIDOME HD 720p
- Vandal-proof FLEXIDOME HD 1080p
- Vandal-proof FLEXIDOME HD 1080p HDR
- Vandal-proof FLEXIDOME HD 720p
- FLEXIDOME IP panoramic 5000
- FLEXIDOME IP indoor 5000 HD
- FLEXIDOME IP indoor 5000 MP
- FLEXIDOME IP indoor 4000 HD
- FLEXIDOME IP indoor 4000 IR
- FLEXIDOME IP outdoor 4000 HD
- FLEXIDOME IP outdoor 4000 IR
- FLEXIDOME IP micro 5000 HD
- FLEXIDOME IP micro 5000 MP
- FLEXIDOME IP outdoor 5000 HD
- FLEXIDOME IP outdoor 5000 MP
- FLEXIDOME IP micro 2000 HD
- FLEXIDOME IP micro 2000 IP
- IP bullet 4000 HD
- IP bullet 5000 HD
- IP micro 2000
- IP micro 2000 HD
- MIC IP dynamic 7000
- MIC IP starlight 7000
- TINYON IP 2000 family
- MIC IP dynamic 7000
- MIC IP starlight 7000
- TINYON IP 2000 family



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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
- DINION 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

CPP-ENC (formerly VIPX H.264)

- VIP-X1600-XFM4
- VJT-X20/X40XF-E
- VJT-XTCXF
- VIDEOJET decoder 3000, VJD-3000
- VIDEOJET connect 7000, VJC-7000



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3 Changes for CPP7 products

- New tuning of image pre-processing has been applied to improve motion sharpness and to reduce artifacts.
- VCA overlays are drawn after scaling to improve visibility.
- For DINION IP thermal 8000, non-functional rotate, flip and mirror were removed from web user interface. In addition, some smaller user interface clean-ups were applied.
- An issue has been fixed where the maintenance log could not be downloaded.
- An issue has been fixed where the wrong SD card recording status was displayed.
- [A security leak, which allowed to extract critical data from the device, has been fixed.](#)
- [A problem with incorrect time zone info in recording packets causing gaps in timeline has been fixed.](#)

Please check the release letter of CPP7 FW 6.32.0111 for completeness and details.

4 Changes for CPP6 products

- VCA overlays are drawn after scaling to improve visibility.
- An issue has been fixed where the maintenance log could not be downloaded.
- An issue has been fixed where the wrong SD card recording status was displayed.
- [A security leak, which allowed to extract critical data from the device, has been fixed.](#)
- [A problem with incorrect time zone info in recording packets causing gaps in timeline has been fixed.](#)

Please check the release letter of CPP6 FW 6.32.0111 for completeness and details.



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5 New Features for CPP4 products

AUTODOME 7000

- Mosaic privacy masks are supported in AUTODOME IP 7000 series.

5.1 Changes for CPP4 products

- VCA overlays are drawn after scaling to improve visibility.
- An issue has been fixed where the maintenance log could not be downloaded.
- An issue has been fixed where the wrong SD card recording status was displayed.
- [A security leak, which allowed to extract critical data from the device, has been fixed.](#)
- [A problem with incorrect time zone info in recording packets causing gaps in timeline has been fixed.](#)

Please check the release letter of CPP4 FW 6.32.0111 for completeness and details.

6 Changes for CPP-ENC and CPP3 products

- [A security leak, which allowed to extract critical data from the device, has been fixed.](#)



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7 Restrictions; Known Issues

- This firmware and its included platform firmware builds are not applicable to MPEG-4 products.
- The final firmware version for VIP-X1600-XFM4 modules is FW 5.53. No newer firmware will be provided for these modules.
- Configuration Manager cannot upload this Combined Firmware file to VIP-X1600-XFM4 modules. Use the module's web page instead for uploading; or use the separate firmware file.
- The final firmware version for CPP3 devices is FW 5.74. No newer firmware will be provided for these products.
- 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.
- Cameras or encoders with a minimum firmware version that is higher than the lowest firmware version in the combined firmware file may show error 0x0b in the upload history which can be ignored. Firmware upload is not affected by this.
- CPP4 cameras with firmware versions below 6.10 need to upload this package twice to receive the latest firmware version.
- CPP6 cameras with firmware versions below 6.10 need to upload the separate firmware version 6.1x first to receive the latest firmware version.
- [With products running firmware 6.32 below built 111, sporadically occurring incorrect time zone info in recording packets may lead to gaps displayed in the playback timeline. The video footage within the gap cannot be replayed but becomes accessible via exporting the affected period.](#)

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



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8 System Requirements

Possible clients for configuration purposes:

- Configuration Manager 5.42 or newer
- Web Browsers:
 - Microsoft Internet Explorer 11.0 or higher
 - Mozilla Firefox

Possible clients for operation purposes:

- Bosch Video Security iPad App 1.2
- Web Browsers:
 - Microsoft Internet Explorer 11.0 or higher
 - Mozilla Firefox
- BVC 1.7 or newer
- ~~Oracle Java Virtual Machine 1.6.0_35~~
- DirectX 9.0c
- [MPEG-ActiveX 6.04](#) or newer