



From
ST-VS/MKP1

Product Management

Nuremberg
29.09.2016

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:	6.32.0929

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

1 General

This firmware release 6.32.0929 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 to FW 6.32](#)
- CPP6 UHD cameras
 - [update from FW 6.10 or newer to FW 6.32](#)
- CPP5 encoders
 - update from FW 5.91 or newer to FW 6.30
- CPP4 HD cameras
 - [update from FW 6.10 or newer to FW 6.32](#)
- CPP3 cameras and encoders
 - update from FW 4.54.0026 or newer to FW 5.73
- CPP-ENC
 - VIP-X1600-XFM4 encoders: update from FW 4.2x or newer to FW 5.52
 - VJT XF and VJD-3000 update to latest FW 5.93

The combined firmware package includes the following build versions:

- [CPP7 H.264 6.32.0099](#)
- [CPP6 H.264 6.32.0099](#)
- CPP5 H.264 6.30.0047
- [CPP4 H.264 6.32.0099](#)
- CPP3 H.264 5.73.0046
- CPP-ENC H.264 5.93.0026 for VJT XF family, VJD-3000 and VJC-7000
- CPP-ENC H.264 5.52.0015 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 6.1x and architectural changes thereof, an upgrade to firmware 6.20 and higher is only possible from firmware 6.1x versions or higher.

Cameras with previous firmware versions below 6.1x first need to upgrade to firmware 6.1x.

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 New Features for CPP7 products

Imaging

- Settings for maximum gain control have been added.

Thermal Imaging

- Support of up to 640x480 pixels (VGA) thermal image.
- False Color Mapping selectable from a range of templates.
- Flat Field Correction (FFC) is synchronized with video analytics.

Refer to the release letter of DINION IP thermal 8000 for a comprehensive feature overview.

Security

- Strengthened password policy:
 - New passwords must now be a minimum of 8 characters including special characters.
 - Passwords are continuously demanded; message cannot be hidden anymore.
- For full support of HSTS, an option "HSTS plus HTTP redirection" has been added.
- Fallback to TLS 1.0 can be disabled.

VCA

- JPEG with VCA overlay is now also available in full screen view.
- Analytics algorithms have been optimized to support thermal images.

For details on VCA 6.30 please refer to the release notes of Essential Video Analytics or Intelligent Video Analytics.

Miscellaneous

- Improved user interface for 802.1x settings. Interface shows an EAP-MD5 password field and lists the EAP-TLS certificates with a link to the certificate store.
- Security coprocessor (TPM) version is listed in system overview.
- Preposition widget on Live page can be completely disabled in Web appearance settings.

Please check the release letter of CPP7 FW 6.30.0140 for completeness and details.



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4 New Features for CPP6 products

Security

- Strengthened password policy:
 - New passwords must now be a minimum of 8 characters including special characters.
 - Passwords are continuously demanded; message cannot be hidden anymore.
- For full support of HSTS, an option “HSTS plus HTTP redirection” has been added.
- Fallback to TLS 1.0 can be disabled.

VCA

- 6000 series cameras support Essential Video Analytics.
- 7000 series cameras support Intelligent Video Analytics.
- JPEG with VCA overlay is now also available in full screen view.

For details on VCA 6.30 please refer to the release notes of Essential Video Analytics or Intelligent Video Analytics.

Miscellaneous

- Improved user interface for 802.1x settings. Interface shows an EAP-MD5 password field and lists the EAP-TLS certificates with a link to the certificate store.
- Security coprocessor (TPM) version is listed in system overview.
- Proposition widget on Live page can be completely disabled in Web appearance settings.

Please check the release letter of CPP6 FW 6.32.0099 for completeness and details.



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5 New Features for CPP4 products

Imaging

- Lens settings Near Focus Limits for day and night have been added.
- Sectors in dome cameras can be more flexible set to 4, 8, 12 or 16 (default).

Security

- Strengthened password policy:
 - New passwords must now be a minimum of 8 characters including special characters.
 - Passwords are continuously demanded; message cannot be hidden anymore.
- For full support of HSTS, an option “HSTS plus HTTP redirection” has been added.
- Fallback to TLS 1.0 can be disabled.

VCA

- JPEG with VCA overlay is now also available in full screen view.

For details on VCA 6.30 please refer to the release notes of Essential Video Analytics or Intelligent Video Analytics.

Miscellaneous

- Improved user interface for 802.1x settings. Interface shows an EAP-MD5 password field and lists the EAP-TLS certificates with a link to the certificate store.
- Security coprocessor (TPM) version is listed in system overview.
- Aux and preposition widgets on Live page can be completely disabled in Web appearance settings.
- New capability “cluster group” has been introduced. MIC integrators can get the audio back channel capability on VIDEOJET connect 7000 from this cluster group.

Please check the release letter of CPP4 FW 6.30.0140 for completeness and details.



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6 Changes for CPP4, CPP6 and CPP7 products

- Limited frame rate stream capability names are presenting the frame rate as “skip” value, which is used as divisor in relation to the base frame rate.
A value “skip 5” results e.g. in 12 fps if base frame rate is set to 60 fps, or in 5 fps if base frame rate is set to 25 fps.
- In preparation for ONVIF Profile Q support, planned for next major firmware release, the default setting for Automatic IPv4 address assignment has changed from “On” to “On plus Link-Local”, a setting that had already been in the option list before.
Though this might seem a small change, it may have an impact:
The former default IP address 192.168.0.1 will virtually become obsolete.
Instead, the camera will assign itself an auto-IP address out of the range 169.254.1.0 to 169.254.254.255 as long as there is no other IP address assigned by a DHCP server.
https://en.wikipedia.org/wiki/Link-local_address
The advantage is that there are no more duplicate IP addresses, which is considered prohibited in a network.

Feldfunk



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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 5.52.
No newer firmware can be loaded onto these modules.
- The final firmware version for CPP3 devices is FW 5.73.
No newer firmware can 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.
- 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.
- Due to an internal file system being introduced to CPP4 and CPP6 since firmware 6.1x and architectural changes thereof, an upgrade to firmware 6.20 and higher is only possible from firmware 6.1x versions or higher.
Cameras with previous firmware versions below 6.1x first need to upgrade to firmware 6.1x.

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 6.02 or newer