



From STDN/PRM	Product Management	Telephone +49 911 93456 0	Nuremberg 12.05.2011
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Release Letter

Products:	<p><i>AutoDome IP, Dinion IP</i></p> <p><i>Extreme IP, Flexidome IP</i></p> <p><i>VIP X1600, VIP XD</i></p> <p><i>VideoJet X10 / X20 / X40 / SN</i></p>
Version:	4.10.0056 (VIPX)

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

1. General

BVIP firmware version 4.10.0056 is a maintenance release for the VIPX technology-based Bosch Video IP platform products based on the former release 4.10.0041, applicable for all mentioned products above (not for VIP X1 and VIP X2).

The large increment on features in firmware 4.x has lead to an almost full utilization of available Flash memory. Thus, the firmware can only hold 2 languages which are English plus another one, and a number of firmware packages will be provided accordingly. There are 18 firmware packages available, supporting 19 languages.

Note:

All units to be upgraded to this version need to have firmware 3.x or higher installed previously.

Note:

This release letter provides information about the new features and how they can be used as the documentation will not be updated for this version but remains at the state of firmware 4.00.



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2. Changes in this release

- Adaptation to latest ONVIF 1.02 specification. ONVIF 1.01 is no more supported.
- RTSP authentication header parameters 'nc' and 'Cnonce' treated non-mandatory for compatibility with VLC, which does not send these despite being mandatory in RFC 2617.
- Various minor bug fixes have been implemented.

3. Changes in FW 4.10.0041

- Support of new H.264 products added to IP Matrix in decoders.
- Decoder logo support can be disabled via special license key to provide more free memory for decoding tasks.

To disable the decoder logo support a special Global License Key must be entered via the License page in the Web browser or the Configuration Manager:

02-01.1C.01-E6057081-3A57FAB0-D291F54C-49A2FDBA-00CDEA45

To allow the use of a decoder logo again, another Global License Key can be applied:

02-01.1C.00-6E830947-81ED8D6F-9A0688A2-50B8A7AA-105F3BD4

These Global License Keys are valid for all applicable products.

To avoid typing errors it is recommended to copy & paste the keys from this release letter.

- Japanese online help files are integrated.
- Various minor bug fixes have been implemented.

4. Changes in FW 4.10.0030

- VIP-X1600-XFM4 H.264 Encoder Modules:
Relative I frame quality is now configurable to allow for a more adequate continuous bandwidth demand and improved image presentation especially via bandwidth-limited transmission lines. This can be configured via newly introduced "Min. P-frame QP" and "Delta I/P-frame QP" settings.
- iSCSI recording is now compatible with SW-based 3rd party iSCSI targets using Windows 2003 server.
- UPnP can now be turned off. Default setting is on.
Standard UPnP requires, and automatically activates IGMP Multicast IP address 239.255.255.250 which is used via port 1900.



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- Internal temperature values are now included in system overview.
- Various bug fixes to improve iSCSI recording have been implemented.
- A problem with recording status command resetting the statistics of the recording report message which lead to inconsistent data rates on the VRM monitor has been fixed.

5. Restrictions; Known Issues

- Mixture between video standards, e.g. PAL encoder connected to NTSC decoder, is not supported.
- In QCIF resolution, stamping is not available.
- Occasional audio drop-outs may occur when replaying recordings from USB hard drive when recording with high performance is active. The recording itself has all data, and a local backup allows to smoothly retrieve all footage inclusive audio data.
- When decoding multiple video streams in parallel with a VIP XD, the visible video quality on the display may be reduced, especially for 4CIF/D1 streams. This has no effect on the quality of recordings of the same stream(s).
- With encoder settings in combination with video content analysis (VCA) that exceed the available calculation power, VCA may not always work properly. Encoder settings and/or sensitive area settings for VCA must be adjusted.
- After firmware upload while daylight saving time checkbox is activated the time zone must be adjusted.
- When filling an empty DST table and then update time zone too quickly, it may happen that time is shifted by 1 hour.
- After reboot, the system time re-synchronisation may be delayed up to 9 seconds for SNTP respectively up to 14 seconds for time server protocol.
- Resolutions for RTSP are depending on player capability.
- AUX commands with VideoJet X family are only possible for Autodomes.
- Ethernet daisy-chaining of VIP-X1600-XFB or VideoJet X is limited to 3 units.
- LUN size for local recording via "Direct iSCSI" is limited to 2 TB.
- VRM versions earlier than 2.0 will not be able to replay recordings from blocks that are recorded with FW 4.x
- When switching the encoding type while recording is active only the footage of the latest set encoding type can be replayed from this recording track.
- When upgrading to firmware 4.10 from 3.x while recording is active it may happen that recording is not restarted automatically after reboot. A manual restart may be necessary. It is advisable to deactivate recording during firmware upgrade.
- When upgrading to firmware 4.10 from 3.x with Multicast addresses configured it may happen that these get lost. It must be ensured that the settings still exist, else be re-created.



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- VIP X1600 XFM4 H.264 encoder modules only support grey colour for Privacy Masking areas.
- LACP, though mentioned in the documentation, is not supported by VIP X1600.
- For correct communication between the modules and the built-in switch in a VIP X1600, it must be ensured that the IP address 1.1.1.1 is not used elsewhere in the network.
- Due to limited computational power of the built-in switch in VIP X1600, IGMP Querying should only be activated in small network segments with no more than 3 VIP X1600 base systems respectively no more than 12 devices or modules.
IGMP Querying in VIP X1600 must be deactivated if a network switch can take over this task.
- When accessing the LIVEPAGE with a Web browser using VideoSDK 5.06, recording to the local PC from the live video is not supported though the button is shown. A message will indicate that recording has started but no recording file will be written.
- When decoder is being used with Bosch VMS, overscan must be set to less than 100%.
- LIVEPAGE recording does not work with VSDK 5.0. MPEG-ActiveX 4.4x must be used.
- Configuring VCA with an overloaded system may result in an inconsistent VCA configuration. In the case of IVA or IVA flow a warning "Configuration Mismatch" appears. The system must be returned to normal operation (no overload) to allow saving a consistent VCA configuration.

6. System Requirements

- Microsoft Internet Explorer 6.0 or higher
- SUN Java Virtual Machine 1.6.0_18
- DirectX 9.0c
- MPEG-ActiveX 4.40.02.02 or newer
- Configuration Manager 3.10.0007 or newer