



From		Telephone	Nuremberg
STVC/PRM	Product Management	+49 911 93456 0	16.10.2007

Release Letter

Products:	<i>VIP X1 / VIP X2 / VIP XD</i> <i>VIP X1600</i> <i>VideoJet X10 / X20 / X40</i>
Version:	<i>2.51.0008</i>

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

1. General

VIP X firmware version 2.51.0008 is an update release for the VIP X platform products. It includes support for AES encryption with key length of 128 bits. Except that, features are identical to the latest released firmware version based on 2.50. All bug fixes since the latest official release 2.50.0041 have been incorporated.

The graphical user interface supports 18 languages, while online help files in this release are German and English only. Other languages will be added with a later release.

2. New Features

- AES encryption with 128 bit key length for payload data within SSL-secured connections as a licensable option.



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3. Changes

- Online help files for VideoJet X10/X20/X40 show correct pin assignment for RS-485 connections.

4. Features

- IVMD 2.0, more advanced VCA algorithm, is available as licensable encoder option, except for VIP X1 and VIP X2 encoders.
Enhancements in comparison to IVMD 1.0 include aspect ratio filtering and detection of idle objects, removed objects, and loitering.
- New recording scheduler with graphical user interface similar to DiBos and BVMS, up to 10 programmable recording profiles, scheduling with flexible profile selection per camera and encoder presets for pre- and post-recording independently selectable.
This feature allows accelerating and/or changing resolution/bandwidth/quality on alarm, e.g. switching from CIF @ 1 ips to 4CIF @ 25/30 ips.
- Encoder settings can be changed when recording is active.
- CPU performance meter in the Web browser display indicates per processor required load for encoding, VCA and system functions like recording for easy check of configuration.
- Higher security due to encryption
Secure HTTP using SSL encryption with DES 56 bit keys for Web browser access and for connections to video management systems (RCP+ control channel).
SSL certificates can be uploaded.
- If higher access security is required, the ports for HTTP, HTTPS, telnet and RCP+ connections can be disabled.
- 802.1X support for network access authentication using a RADIUS server
- Low-pass filter for too noisy camera signal
- Livepage can show VCA metadata from MOTION+, IVMD 1.0/2.0 and can show IVMD 2.0 trajectories
- Automatic switching to daylight saving time with flexible editable time table.
- Configurable remote port enables hardware-hardware connections through NAT / Firewall.
- SNMP MIB enhancements, SNMP traps are selectable.
- SNTP time server support
Accuracy with SNTP now 0.25 microseconds, choice of SNTP and RFC868 available.
- DHCP integration for dynamic IP address assignment
- VIP-XD can decode MPEG-2 stream.
- Only one iSCSI connection will be required for recording to an iSCSI drive, now supporting 63 BVIP units connecting to a single Bosch iSCSI drive.
- Improved and simplified storage partitioning tool



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5. Restrictions; Known Issues

- Mixture between video standards, e.g. PAL encoder connected to NTSC decoder, is not supported.
- The scan network function of the decoder works only within a subnet.
- In QCIF resolution, stamping is not available.
- Only 1 audio channel for VIP XDA in single view, no audio in quad-view.
- No back (talk) channel from VIP XDA to VIP X2A when connected to video input 2.
- No audio connection between VJ1000 and VIP XDA, only video connection possible.
- 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 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).
- iSCSI recording on VIP X1 and VIP X2 requires a certain processing performance. Therefore, the higher the iSCSI recording load, the more reduced encoding power may cause a lower frame rate for video. See performance table.
- Due to lack of memory, VIP X2 with IVMD 1.0 enabled will lose VCA functionality on video input 1 when upgraded to firmware 2.50. The license will remain so that functionality is back when downgraded to firmware 2.0 again.
- 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.
- SNMP MIB II is only partially supported for trap generation.
- After firmware upload while summertime checkbox is activated the time zone must be adjusted.
- After firmware update it is recommended to erase and re-create recording partitions.



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6. System Requirements

- Microsoft Internet Explorer 6.0 or higher
- SUN Java Virtual Machine version 1.50.0.09 with SSL support or newer
- DirectX 9.0c
- MPEG-ActiveX 4.23.0030 or newer
- Configuration Manager 1.62.0026 or newer