



From
ST-VS/MKP1

Product Management

Nuremberg
29.04.2014

Release Letter

Product:	<i>VIP-XDHD</i>
Version:	<i>Firmware 1.8.0</i>

This letter contains latest information about the above mentioned product.

1 General

This firmware is a feature release for the multi-stream HD Decoder VIP XDHD based on the former release 1.4.0.

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



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2 Applicable products:

- VIP-XDHD

3 New Features

- VIP-XDHD now supports 2 monitors connected to two out of the three monitor outputs.
- Reconnect last devices
Active camera connections are stored and automatically reconnected after reboot.
To avoid deadlock in case of an overload situation the automatic reconnect will be deactivated after VIP-XDHD was forced into reboot for 3 times within 10 minutes.
- TCP connections are supported.
- Discovery port is configurable.
- Cameo distance is configurable.
- Audio is supported in single view.
- The RCP+ command CONNECT_PRIMITIVE is supported.
- The number of decoders can be configured to match licensing in management systems.
The number of allowed decoders per monitor is calculated from the number of decoders divided by the number of monitors. Layout selection will be restricted to those with number of cameos not exceeding the number of allowed decoders per monitor by 20%.
- A video stretch mode allows using the full cameo space when accepting distortion.
- Resolutions up to 8 MP are supported but may fall back to I-frame-only display mode if system runs into performance issues.
- Cameo 1:1 selection added to allow 3x2 layout on a 16:9 or 16:10 monitor.
- Connection text displayed within empty cameo can be hidden.
- Hidden Web page added to reset password via our Service & Support.

4 Changes

- VideoSDK overlay icons are only displayed if metadata display is enabled.
- Addressing of the layout per monitor has changed and is now compatible with VJD-7000 and Monitor Wall 8.0.



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5 Restrictions; Known Issues

- IntuiKey keyboard is not supported.
- IP Matrix license is not supported.
- Analogue monitors are not supported.
- ~~AES Encryption is not yet supported.~~
- Connecting encrypted streams without proper signalling may result in crashing the software decoder instance, resulting in black video displayed.
- Alarms will not be signaled with a red border around the cameo if connection was established using CONNECT_PRIMITIVE.
- Using CONNECT_PRIMITIVE via TCP is not possible.
- CONNECT_PRIMITIVE does not support "first available" feature.
- Audio may remain audible despite layout change to other than single view.
- RCP+ command CONF_ALARM_CONNECT_TO_IP is not supported.
- Alarm connection does not support audio.
- Maximum password length is 19 characters.
- ONVIF 2.0 conformance is not yet provided with this firmware release. (Earlier ONVIF specifications do not include decoder support yet.)
- VIP-XDHD is supported by BVMS 4.5.x only with a single monitor.
- [Audio level control is only possible with active speakers connected.](#)
- [IP matrix remote monitor is only possible with UDP. TCP not supported.](#)

6 System Requirements

For configuration purposes:

- Configuration Manager 5.01 or newer

For operation purposes:

- Bosch Video Client 1.4 SR3 or newer
- Bosch Video Management System 4.5.5 or newer

[For 3rd party software integration check with IPP.](#)



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7 Previous Revisions

7.1 Features with initial release 1.4.0

- VIP-XDHD displays high definition and standard definition video from cameras and encoders using H.264 or MPEG-4 encoding at up to 30 images per second over IP networks.
- It can decode four H.264 720p30 streams at 10 Mbps or two 1080p30 streams at 10 Mbps.
- Alternatively it can simultaneously decode six H.264 Standard Definition streams at up to 6 Mbps from fast-moving AutoDome cameras.
- When H.264 Standard Definition streams at up to 2.5 Mbps from medium activity scenes are connected, up to twelve streams can be displayed.
- VIP-XDHD is based on the latest Intel H67 Express Chipset on a Mini-ITX board with a Core i3 CPU running at 3.1 GHz.
- The system has an 8 GB Flash module as boot medium for operating system and application.
- It uses a Gigabyte Ethernet port.
- The system runs a tailored and Bosch-branded Microsoft Windows 7 Embedded operating system, and Monitor Wall software based on HD-capable VideoSDK 5, both fine-tuned for High Definition video decoding support.
- VIP-XDHD provides three monitor outputs, DVI-I, HDMI and DP; only one of these can be used at a time.
- Monitor Resolutions are:
 - DVI-I 1920 x 1200 max (WUXGA) at 60 Hz
 - HDMI 1920 x 1200 max (WUXGA) at 60 Hz
 - DP 2560 x 1600 max (WQXGA) at 60 Hz
- The system can be directly mounted to the back of a monitor, using the VESA mount options of 75 mm (2.953 in) or 100 mm (3.937 in).
- Configuration is made using the Configuration Manager.
- System access is password-protected with two levels.
- The system firmware can be upgraded remotely.
- Operation is possible
 - with Bosch Video Client 1.2 and
 - with Bosch Video Management System 3.0

For detailed technical specification please refer to the datasheet.