



From
STDN/PRM

Product Management

Nuremberg
29.07.2013

Release Letter

Product:	<i>VIDEOJET decoder 3000</i> <i>VJD-3000</i>
Version:	<i>Firmware CPP-ENC 5.85.0027</i>

This letter contains latest information about the above mentioned product.

1. General

This initial release covers the H.264 decoder VIDEOJET decoder 3000.

Note:

Initial production of VJD-3000 runs a pre-release firmware 5.85.0027 which might still comprise issues that will be fixed in the final firmware release.

It is recommended to upgrade to the released firmware as soon as it becomes available.



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2. Features

- VJD-3000 displays high definition and standard definition video from cameras and encoders using H.264 or JPEG encoding at up to 60 images per second over IP networks.
- It supports H.264 Baseline Profile, Main Profile and High Profile.
- It can decode an H.264 HD stream of 1080p30 720p60 at 10 Mbps in single-view.
- Alternatively it can simultaneously decode four H.264 Standard Definition streams at up to 6 Mbps, e.g. from fast-moving AUTODOME cameras. Standard definition streams up to 960H are supported.
- It can decode up to 4 JPEG streams simultaneously.
- The VJD-3000 directly drives an HD display device connected to its digital HDMI output. It supports the following video modes:
 - PAL, 704 x 576i @ 50 Hz
 - NTSC, 704 x 480i @ 59.97 Hz
 - 960H25, 960 x 576i @ 50 Hz
 - 960H30, 960 x 480i @ 59.97 Hz
 - 720p50, 1280 x 720p @ 50 Hz
 - 720p60, 1280 x 720p @ 60 Hz
 - 1080i50, 1920 x 1080i @ 50 Hz
 - 1080i60, 1920 x 1080i @ 60 Hz
 - 1080p25, 1920 x 1080p @ 25 Hz
 - 1080p30, 1920 x 1080p @ 30 Hz
- It directly drives an analogue PAL- or NTSC-compatible display device connected to its analogue CVBS output.
- It provides bi-directional G.711 audio in parallel to the video stream displayed in single-view.
- VJD-3000 uses a 100Mbps Ethernet port.
- It provides four alarm inputs and one relay output.
- It provides a serial interface for connecting an IntuiKey CCTV keyboard.
- It supports the IP Matrix e-license.
- VJD-3000 can be directly mounted to a wall by using the included wall-mount accessories. It can also be inserted into a rack-mount kit, available as separate accessory.
- Configuration is made using the Configuration Manager or any modern Web browser.
- VJD-3000 provides a Connection Page via its Web user interface which can be used to set the initial mode of operation and connect the cameras for display.
- It automatically re-connects the configured cameras after re-boot or power loss.
- System access can be password-protected with two levels.
- The system firmware can be upgraded remotely.



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- Operation is possible with
 - Bosch Video Client 1.4 SR3 and
 - Bosch Video Management System 4.5.5

Note:

VJD-3000 must be manually added to the BVMS system as “VIP-XDHD”.

For detailed technical specification please refer to the datasheet.

3. Restrictions; Known Issues

- Monitors, not providing correct EDID information, may function only in VGA fallback mode, according to HDMI specification.
- HD video is only accepted in single display mode.
- In quad-mode, no HD video is accepted. No feedback is given to the user if the connection is not established due to this decoder limitation.
- Maximum resolution of acceptable video streams is Full HD (1920 x 1080). Higher resolutions, like from a 5 MP camera, will not be accepted without providing user feedback.
- Video streams in 4CIF from interlaced sources containing B frames may cause the displayed video to freeze.
- When in quad-mode, connecting another device may cause jerking of the existing video streams for the first 1-2 seconds.
- If a camera with different resolution and/or aspect ratio than the previous stream is connected, for a short moment it may happen that the video is wrong-sized, or ghost pictures may be shown.
- When substituting a connection with audio by another camera with audio it may happen that audio is played out too fast until the time stamps are synchronized.
- Audio may not always be fully synchronized to video.
- In quad-mode, when the decoder is at its computational limits, sometimes a clicking noise is induced to the audio signal.
- PTZ via IntuiKey does not work when stream 2 on a camera is set to region of interest (ROI).
- No feedback is returned when attempting to connect to a camera with wrong password.
- The decoder logo for upload must be a non-progressive JPEG image that bears as little header information as possible. Image size should be qHD format (960x540) for optimized display on a full HD monitor and shall not exceed 100 kB. An invalid format of the decoder logo will cause decoding to fail until the logo is deleted again.
- ONVIF conformance is not yet provided with this firmware release.
- The cables on both analogue and digital video outputs must not exceed a length of 30 m (98.43 ft).

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4. System Requirements

For configuration purposes:

- Configuration Manager 4.45 or newer
- Web browser:
 - Microsoft IE9 or higher
 - Mozilla Firefox
 - Google Chrome
 - Apple Safari

For operation purposes:

- BVC 1.4 SR3 or newer
- BVMS 4.5.5 or newer