



From STDN/PRM	Product Management	Nuremberg 29.07.2013
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Release Letter

Product:	<i>VIDEOJET decoder 7000</i> <i>VJD-7000</i>
Version:	<i>Firmware 54.7.0</i>

This letter contains latest information about the above mentioned product.

1. General

This initial release covers the multi-stream, dual-monitor HD Decoder VIDEOJET decoder 7000.



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2. Features

- VJD-7000 displays high definition and standard definition video from cameras and encoders using H.264 or MPEG-4 encoding at up to 60 images per second over IP networks.
- VJD-7000 provides bi-directional G.711 audio for the video stream shown in single view on the first monitor
- VJD-7000 provides three monitor outputs, DVI-I, HDMI and DP; where two out of them can be used simultaneously.
- Monitors are automatically discovered and set for optimal display performance.
- Monitor layouts can be switched independently for each monitor.
- Upright monitors (portrait mode) are supported.
- Video window (cameo) aspect ratio can be set to 16:9, 9:16 or 3:4.
- Active camera connections and layout are stored and automatically reconnected after reboot. To avoid deadlock in case of an overload situation the automatic reconnect will be deactivated after VJD-7000 was forced into reboot for 3 times within 10 minutes.
- TCP connections are supported.
- Discovery port is configurable.
- Cameo distance is configurable.
- VJD-7000 can be used as an extended monitor to IP Matrix in single and quad view.
- The RCP+ command CONNECT_PRIMITIVE is supported.
- VJD-7000 is able to display VCA metadata.
- Configuration is made using the Configuration Manager.
- The number of decoders presented in capabilities is configurable to regulate the consumption of VMS licenses. Default value is 25.
- System access is password-protected with two levels.
- The system firmware can be upgraded remotely.
- Operation is possible with
 - Bosch Video Client 1.4 SR3 and
 - Bosch Video Management System 4.5.5

Note:

VJD-7000 is supported by BVMS only with a single monitor.



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Decoding Performance

- VJD-7000 is capable of decoding streams according to the following table:

<i>Encoding</i>	<i>Streams</i>	<i>Resolution</i>	<i>Max. bit rate</i>
H.264 HD	4	1080p30	10 Mbps
	6	1080p30	5 Mbps
	8	1080p30	2.5 Mbps
	4	720p60	10 Mbps
	6	720p60	5 Mbps
	8	720p60	2.5 Mbps
	6	720p30	10 Mbps
	10	720p30	5 Mbps
	14	720p30	2.5 Mbps
H.264 SD	12	4CIF/432p	5 Mbps
	20	4CIF/432p	2.5 Mbps

System

- VJD-7000 is based on the latest Intel H77 Express Chipset on a Mini-ITX board with a Core i3 CPU running at 3.1 GHz.
- The system has a 16 GB Flash module as boot medium for operating system and application.
- The system runs a tailored and Bosch-branded Microsoft Windows 7 Embedded operating system, which has been designed to be highly resistant to viruses and other malware, and Monitor Wall software based on HD-capable VideoSDK 5, both fine-tuned for High Definition video decoding support.
- It uses a Gigabit Ethernet port.
- 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).

For detailed technical specification please refer to the datasheet.



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3. 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.)
- VJD-7000 is supported by BVMS 4.5.5 only with a single monitor.

4. System Requirements

For configuration purposes:

- Configuration Manager 4.45 or newer

For operation purposes:

- with Bosch Video Client 1.4 SR3 and
- with Bosch Video Management System 4.5.5