



From BT-VS/ETP-MKP1	Product Management	Nuremberg 15.01.2021
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Release Letter

Product:	<i>VIDEOJET decoder 7000</i> <i>VJD-7513</i>
Version:	<i>Firmware 10.01.0036</i>

This letter contains latest information about the above mentioned product.

1. General

This firmware release 10.01.0036 is a feature release based on FW 9.60.0017.

Changes since last release FW 9.60.0017 are marked in [blue](#).

VIDEOJET decoder 7000 uses robust, fan-less technology designed for ambitious environmental conditions while providing maximum performance on minimum space in a nicely designed industrial housing.

VIDEOJET decoder 7000 displays video from Standard Definition (SD), High Definition (HD), 4K Ultra High Definition (UHD), and Megapixel (MP) cameras and encoders using H.265, H.264 or MPEG-4 encoding at up to 60 frames per second over IP networks.

VIDEOJET decoder 7000 is the successor of VIDEOJET decoder 8000 (VJD-8000, VJD-8000-N). It is using the same housing but comes with different video output interfaces, and provides improved performance and functionality.

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2. Applicable products

- VIDEOJET decoder 7000, VJD-7513

3. Installation notes

- ~~Due to security reasons HTTP Basic Authentication, which transports passwords as clear text, has been removed since Configuration Manager 5.5x. As Digest Authentication is not supported for HTTP in VIDEOJET decoder firmware, a firmware update using HTTP or RCP+ protocol will only work if no service password is set in the decoder.~~



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4. New Features

Security

- A protected configuration mode has been implemented, allowing to
 - enable SSD encryption (BitLocker) and to
 - disable USB ports, e.g. for installation of the decoder in public areas.
- The configuration of the decoder can be protected by Software Sealing, similar to IP cameras.
- The latest Microsoft Windows security updates have been included.

Miscellaneous

- A dewarped cutout from panoramic cameras can be defined with PTZ coordinates.
- A new way to control and integrate the decoder into a management system has been added by a JSON RPC API. This allows to send commands and retrieve status information via JSON remote procedure calls. The API documentation is added to the distribution package.
- A video output capture service (VOCS) has been implemented which could be activated via a license, applicable per display output. This service captures the memory of the video output and encodes it into a camera-like video stream, which can be recorded via Video Streaming Gateway (VSG) onto iSCSI storage.
- A time server can be added to synchronize the decoder.
- Decoder log file can be downloaded via Configuration Manager. This is especially recommended when download of the log file is not working correctly via web browser.

5. Changes

- Upload of background image and connection loss image to the decoder and reverting them to default is now also possible with service password set. The former restriction is obsolete.
- Various minor bug fixes.



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6. Restrictions; Known Issues

- Analogue monitors are not 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.)
- With "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 the decoder was forced into reboot for ten times within 10 minutes.
- HD 1080p60 streams that need to be up-scaled for display on a 4Kp60 monitor are jerking due to an issue in Intel's HD Graphics chip. This can be avoided by either not scaling up HD streams to full view but rather use e.g. a quad layout, or running the 4K monitor in 30 Hz.
- Monitors may be swapped after update. Swap back is possible using Configuration Manager.
- IP Matrix pre-requisites for multi-decoder clustering:
 - Fixed IP addresses must be assigned; DHCP configuration is not functional.
 - Passwords for service level must be same on all clustered decoders.
 - Passwords for user level must be same on all clustered decoders.
- After removing a slave decoder from the IP Matrix master, both decoders must be restarted.
- Camera sequences are paused when picture-in-picture mode is activated.
- Time related settings may appear in Configuration Manager only with delay or after a reboot.
- Monitors connected to the Display Port via USB-C may not always be detected during booting. In this case, unplug and reconnect the adapter or cable to the monitor. If only one monitor is used it is recommended to connect to the direct HDMI output.

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7. System Requirements

For configuration purposes:

- [Configuration Manager 7.11 or newer](#)

For operation purposes:

- [Bosch Video Management System 10.0.1 or higher](#)



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8. Previous Revisions

8.1. *New Features*

IP Matrix enhancements

- KBD-DIGITAL is supported in addition to KBD-UNIVERSAL XF. This keyboard requires a serial-to-USB adapter to connect to the decoder. Both keyboards can be mixed in a clustered multi-decoder IP Matrix, one keyboard per decoder.
- Playback from local recording is supported. Permission is configured via Configuration Manager for the whole IP Matrix, valid for all users.
- Buttons for next and previous camera have been added to the KBD-UXF functions.
- Audio can be switched on or off via keyboard.
- Camera channels can be extended via license up to 64 cameras per decoder unit.

Note:

IP Matrix manual is now separated into

- One configuration manual for IP Matrix
- One operation manual for IP Matrix using KBD-UXF
- One operation manual for IP Matrix using KBD-DIGITAL

Security

- The latest Microsoft Windows security updates have been included.

Miscellaneous

- Background image and connection loss image can be uploaded to the decoder, replacing the default images. Reverting them to default is done by uploading an empty image.
Note: Upload is only possible in conjunction with an empty service password.

8.2. *Changes*

- Temperature control margin increased to improve maximum performance at the specified maximum temperature, covering component tolerances, and to ensure that all products adhere fully to their specification.
- Various minor bug fixes.



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8.3. *Features with initial release 9.51*

- VIDEOJET decoder 7000 displays video from Standard Definition (SD), High Definition (HD), 4K Ultra High Definition (UHD), and Megapixel (MP) cameras and encoders using H.264 or MPEG-4 encoding at up to 60 frames per second over IP networks.
- VIDEOJET decoder 7000 provides an HDMI and a DisplayPort (via USB-C connector) output, both capable of driving up to 4K UHD displays simultaneously.
- Display settings are automatically discovered and set for optimal display performance.
- Monitor layouts can be switched independently for each display.
- Upright monitors (portrait mode) are supported.
- Video window (cameo) aspect ratio can be set to 16:9, 9:16, 3:4, or 1:1.
- Active camera connections and layout are stored and automatically reconnected after reboot if configured.
To avoid deadlock in case of an overload situation the automatic reconnect will be deactivated after VIDEOJET decoder 7000 was forced into reboot for 3 times within 10 minutes.
- Video smoothing can be configured.
- RTSP connections are supported, enabling connectivity to 3rd party and ONVIF cameras.
- Discovery port is configurable.
- Cameo distance is configurable.
- VIDEOJET decoder 7000 supports IP Matrix application as built-in feature.
- VIDEOJET decoder 7000 is able to display VCA metadata.
- VIDEOJET decoder 7000 provides bi-directional G.711 audio for the video stream shown in single view on the first monitor.
- Configuration is done using the Configuration Manager.
- The number of decoders presented in capabilities is configurable to regulate the consumption of VMS licenses. Default value is 30.
- System access is password-protected with two levels.
- The system firmware can be upgraded remotely.
- System API is compatible to predecessor VIDEOJET decoder 8000 for easy plug-and-play integration.
- Operating temperature is
 - 0 °C to +50 °C (+32 °F to +122 °F) ambient temperature, with airflow
 - 0 °C to +40 °C (+32 °F to +104 °F) ambient temperature, still air

For detailed functional description of inherited firmware features, please refer to the VIDEOJET decoder 8000 firmware 9.51 release notes.

For detailed technical specification, please refer to the datasheet.