

Release Letter

Product:	VIDEOJET decoder 7000, VJD-7523
Version:	11.10.0030

This letter contains latest information about the above-mentioned product.

1. General

This firmware release [11.10.0030](#) is a feature and maintenance release based on FW 11.03.0004.

Changes since last release 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 and H.264 encoding at up to 60 frames per second over IP networks.

VIDEOJET decoder 7000 (VJD-7523) is the successor of VIDEOJET decoder 7000 (VJD-7513). It is using the same housing but comes with different video output interfaces and provides improved performance and functionality.

Notes:

- Firmware update may take several minutes due to a large cumulative Microsoft patch when installed on a VJD-75x3.
- This firmware includes OpenSSL.

2. Applicable products

- VIDEOJET decoder 7000, VJD-7523

3. New Features

- [Support for licensing via IQSIGHT Remote Portal](#)
- [Cameo alarm frame border color can be configured](#)
- [Startup info and runtime info download on web page and in Configuration Manager](#)
- [Configurable video content analytics \(VCA\) overlays](#)

4. Changes

- IQSIGHT branding
- Log export does no longer require a device reboot to clean up afterwards

5. System Requirements

For configuration purposes:

- Configuration Manager 7.80 or newer

For operation purposes:

- BVMS 12.3 or higher
Note that not all features may be supported by BVMS yet.
Please refer to BVMS release notes.

6. Restrictions; Known issues

- 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, nor does it include metadata.
- Maximum password length is 19 characters.
- 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.
- 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.
- Log file download stability may be affected by workload of decoder. As a workaround, the download may need to be repeated, or the workload of the decoder may need to be reduced (disconnect all camera streams).
- Time zone configuration is only supported via TIME_ZONE_STRING.
- The KBD-DIGITAL keyboard is locked automatically during start-up of the decoder, or with re-connect. It will be unlocked after entering the PIN but the lock screen will remain until the next action on the keyboard.
- Certificates used with the decoder must not have any Windows policies defined.
- Overload messages and traps may appear too sensitive in cases where display refresh rates are lower than video stream frame rates.
- The 'next monitor' button may not always roll over when the last monitor is reached. If this happens, entering a valid monitor number manually recovers from this situation.
- In Firefox downloading the decoder's maintenance log file will result in a file with an inappropriate file extension (e.g. .html). The file extension of the downloaded file needs to be renamed to .zip. Then the zip file can be opened without problems.
- Upgrading firmware on a decoder connected via 802.1x may result in a network loss, which can be fixed by unplug and reconnect the network cable or reset the switch port.

7. Previous Revisions

7.1. New Features with 11.03.0004

- System logging enhanced by display adapter information and monitor information, such as enumeration, serial number or EDID for better analysis of field issues with display connections and display ordering

7.2. Changes with 11.03.0004

- PTZ keyboard detection time improved
- Dual keyboard feature works reliably when keyboard joysticks are operated simultaneously, also in maximum IP matrix setup with four decoders

7.3. New Features with 11.02.0005

- Keyboard layout AZERTY is now supported as well when operations like 'factoryreset' or 'clearconfig' needs to be performed via the login window.
Note: Configuration Manager 7.77 supports 'Reboot', 'Restore settings' and 'Factory default' operations for your convenience

7.4. Changes with 11.02.0005

- The way the decoder handles VOCS client requests is improved by adjusting timeouts and making the management of session descriptions more reliable
- Swapping background and foreground cameo on first frame from a Bosch panoramic camera is supported again

7.5. New Features with 11.01.0024

- The Improved configuration of the IP Matrix with ONVIF cameras includes selection of streaming profile and protocol and verification of all settings. Requires Configuration Manager 7.76
- Active PTZ operations (especially when using a PTZ keyboard joystick) will now be stopped when the active camera is disconnected or when user activates a different video panel for PTZ control. This avoids permanent panning of dome cameras when user switches the video panel focus while the joystick is not released and back in center position
- Memory overload protection enables the decoder to still operate when video memory consumption is about to exceed available memory by denying additional connection requests. This feature can be activated in future with a Configuration Manager version greater than 7.76
- The bit rate of the Video Capture Service (VOCS) can be configured

7.6. Changes with 11.01.0024

- For a better video experience, the video analytics attribute overlay for object class is switched off, whereas the attributes bounding boxes and trajectories remain on

- During MonitorWall application startup, video connection requests that occur within the first few seconds after startup, are not denied under certain circumstances, thus improving the reliability in conjunction with scripted mass video connections
- Blank password accepted when password policy enforcement is disabled
- User access to operating system requires now a service login license, which can be obtained via the support channel
- Video streaming improved for certain ONVIF camera models
- Improved handling of too many I frame requests for rtsp streams
- Security by default: fallback to TLS 1.0 and 1.1 is denied by default for Rcp+ control clients, TLS 1.2 is enforced by Rcp+ server on the decoder on port 443

7.7. New Features with 10.61.0006

- New feature: Alias mapping for camera keys in IP matrix
 - Enable greater number space up to 6 digits
 - Prepare integration into BVMS numbering space
- We now support for more convenience a wider range of Prolific serial port USB adapters

7.8. Changes with 10.61.0006

- Bugfix: Fix issue with duplicate encryption for CPP14 cameras

7.9. New Features with 10.60.0025

- The Video Output Capture Service (VOCS) has received enhancements:
 - RTSP server for VOCS added, supporting control protocols RTSP (port 554) and RTSPS (port 9554), digest authentication, and video streaming via UDP or TCP.
 - VOCS now supports rotated displays.
 - VOCS_CONFIG RCP+ command now supports simultaneous multi-line configuration.
 - Added VOCS RTSP server documentation for download on decoder webpage.
- Support of snap.jpg on rotated displays.
- IP Matrix supports mixed decoder groups with VJD-7513 and VJD-7523 devices.
- SNMP trap service logs are now included in log download.

7.10.Changes with 10.60.0025

- Human temperature detection (HTD) feature set is removed.
- Detector and handler added for sporadic one-time VOCS grabber issue after device boots.
- An issue is fixed for RCP via CGI commands with multi-packet responses.
- An issue is fixed to avoid timeout issues in some HTTP clients. HTTP POST return code for successful file uploads is changed from 200 to 204 to signal that no content will be sent to the client as response to the POST.
- RCP+ documentation is updated for download on decoder webpage.

7.11. Changes with 10.40.0061

- A security issue is fixed in the RCP+ SDK.
- An issue is fixed where empty passwords were not handled correctly for RCP+ via CGI commands.
- An issue is fixed in connection setup to support next Bosch camera FW 9.0.
- Support of further USB to serial COM port adapter for KBD-DIGITAL keyboard connectivity, CableCreation CD0487, based on the TFDI-FT232RL chipset.
 - Prolific PL2303 [hardware ID USB\VID_067B&PID_2303]
 - Prolific PL2303GT [hardware ID USB\VID_067B&PID_23C3]
 - ATEN UC232A [hardware ID USB\VID_0557&PID_2008]
 - Unitek Y-108 [hardware ID FTDIBUS\VID_0403+PID_6001]
 - CableCreation CD0489 (PL2303) [hardware ID USB\VID_067B&PID_2303] is compatible to the already supported Prolific PL2303 adapter.
 - CableCreation CD0487 [hardware ID USB\VID_0403&PID_6001].
- Log export file content has been reduced to only contain latest and only application-related logs.
- An issue is fixed with log export file encryption when the device webpage is used.
- An issue is fixed with the SetVocsConfig Rcp+ command.
- An issue is fixed with the CPU overload detection threshold, affecting the SNMP traps feature (processing overload trap).

7.12. New Features with initial release 10.40.0055

- SRTP for encrypted multicast traffic is supported. This allows fully secured communication with and video streaming from CPP13 and CPP14 cameras in multicast environments.
- SNMPv3 trap service has been added, including the support of SNMP-related RCP+ commands for configuration.
- A JPEG snapshot is now possible from each of the displays, including JPEG quality settings parameter.
- Display order can be re-arranged in case Windows display detection differs from mechanical order.
- The default layout is depending on the display number to simplify the identification of display order. The number of video windows per display increases as square of the display number.
- The web interface of the decoder has been updated to the latest style guide and re-structured to ease usage for installation, licensing, and integration purposes.
 - The new web pages provide links to documentation and include a live preview.
 - Maintenance log file creation and download is supported by a workflow mechanism.
 - A keyboard emulator supports initial setup for IP Matrix even without keyboard connected.

7.13. Changes with initial release 10.40.0055

- The Video SDK as one of the core components for the decoder firmware has been updated to latest version 6.40, providing a great number of improvements and fixes, mainly around ONVIF and RTSP support, increasing the overall robustness.
- Default number of video windows increased from 30 to 60 total.
- An issue is fixed for banner upload when banners are activated.
- An issue is fixed for zooming out in client dewarping mode of panoramic camera streams.
- An issue is fixed where client dewarping was not working on line 1 of a panoramic camera in onboard dewarping mode. Onboard dewarping is only available for lines 2 and higher, line 1 always provides the full warped image circle.
- An issue with DNS server configuration is fixed.
- An issue is fixed where CPP13 and CPP14 cameras were not correctly connected in camera sequences.
- Maintenance log file download is improved, supported by the new web interface structure.
- An issue is fixed where daylight saving time was incorrectly reflected in time zone offset calculation.

Since the firmware 10.40 development for this decoder is based on predecessor work, please refer to the release notes of VJD-7513 firmware 10.31.0005 for earlier feature enhancements and changes.

For detailed technical specification, please refer to the datasheet.