Nuremberg

22.10.2026

Release Letter

Product:	***Monitor Wall***
Version:	***11.10.0000.000178***

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

1 General

Monitor Wall 11 displays video from Standard Definition (SD), High Definition (HD), 4K Ultra High Definition (UHD), and Megapixel (MP) cameras and encoders using H.264 or H.265 encoding at up to 60 frames per second over IP networks on up to four HD or 4K displays.

Its scalable decoding technology and performance management architecture makes it easy for operators to simply connect cameras, regardless of resolution, bitrate, or frame rate. It automatically scales resources, distributing them over the connected streams to produce the best possible performance.

Changes since last release are marked in blue.

2 New Features

- Support for licensing via IQSIGHT Remote Portal
- Cameo alarm frame border color can be configured
- Support for dynamic background logos (animated gifs)
- Configurable video content analytics (VCA) overlays
- Startup info and runtime info download on web page and in Configuration Manager

3 Changes

- IQSIGHT branding

4 Restrictions; Known issues

- Keyboards KBD-DIGITAL and KBD-UXF are not supported.
- IP Matrix license is not supported.
- Analogue monitors are not supported.
- Alarms will not be signalled 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 provided with this firmware release.
  (Earlier ONVIF specifications do not include decoder support yet.)
- Audio level control is only possible with active speakers connected.
- Monitor Wall supports hardware-accelerated H.264 and H.265 decoding in addition to CPU-based decoding on compatible Nvidia GPUs and Intel onboard graphics. Compatibility is typically provided for professional Nvidia workstation GPU models that use the same microarchitecture as the recommended hardware configuration. Compatibility is not guaranteed for models not listed in this datasheet.
- Simultaneous hardware-accelerated decoding on Nvidia GPUs and Intel onboard graphics is not supported. For such workstation configurations, disable Intel onboard graphics in Windows Device Manager.
- Nvidia GPUs support a limited number of parallel decoding sessions and have an upper limit for real-time encoded data throughput. GPU memory limitations may also restrict the number of high-resolution streams processed in parallel.
- Monitor Wall uses a heuristic to decide whether a stream is decoded on the CPU or GPU to optimize overall system performance. Lower-resolution streams may be assigned to CPU decoding to reserve GPU resources for higher resolution streams. Some load-balancing preferences can be adjusted if required.
- The CPU-based decoding framework uses predictive scheduling to maintain real-time display during overload conditions. If decoding or rendering cannot be completed in time, the system may skip selected encoded frames.
- Aggressive CPU clock rate regulation can reduce prediction accuracy. Select the “High performance” power plan in Windows Power Settings.

5 System Requirements

Hardware	Management workstation like Z4 G5, Z2 G9
RAM	min. 16 GB
OS	Windows 11 (64 bit)
Graphic Card	Nvidia A400, A1000, T1000 or T400
Ethernet Card	1000 Mbps
Sound Card	Recommended
Free Memory (Installation)	200 MB

For configuration purposes:

- Configuration Manager 7.80 or newer

For operation purposes:

- BVMS 12.3 or newer
- For 3rd party software integration check with IPP.

6 Previous Revisions

6.1 New Features with version 11.01.0095

- Monitor Wall application supports FIPS compliant Windows 11 workstations
- Basic webpage available at Monitor Wall's built-in web server
- Support of various digital and dewarping zoom persistence modes
- Support for latest Bosch/IQSIGHT camera FW versions

6.2 Changes with version 11.01.0095

- For a better video experience when metadata overlay is enabled, the video analytics attribute for object class is switched off, whereas the attributes bounding boxes and trajectories remain on
- Blank password accepted when password policy enforcement is disabled
- 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

6.3 New Features with version 10.00.0164

- Support of multi-channel Nvidia graphic adapters for high-performance multi-stream video decoding on up to four HD or 4K display screens.
- Independently configurable and switchable layouts.
- Full-screen and picture-in-picture modes for operators.
- Multiple region-of-interest cutouts from panoramic cameras from a single decoded stream, remotely controllable by clients.
- Flexible customizable text overlays.
- Video freeze detection and alerting.
- Secured and encrypted connections.
- Watchdog for fast recovery and high availability.
- Improved performance from latest Video SDK.
- JSON RPC API for easy integration.

6.4 Changes with version 10.00.0164

- Introduction of a new licensing mechanism
  Licenses from previous installations are not applicable to this new version.
  Existing installations that upgrade to this version need to be re-licensed.

6.5 New Features with version 8.01

- An RCP message has been added to be sent whenever the decoder spots a FREEZE of the incoming video stream. This allows an external program to intercept this message and trigger controls of a supervisionary safety system.

6.6 Changes with version 8.01

- An issue with multi-channel encoders VIDEOJET multi 4000 and VIP-X16XF-E under high load where connections have been dropped sporadically has been fixed.

6.7 New Features with version 8.0

- Monitor Wall 8.0 now supports multiple monitors with separately configurable layout. The restriction that dual monitors are only possible in span mode has been solved.
- 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.

6.8 Changes with version 8.0

- 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 with FW 54.8.0 and VIP-XDHD FW 1.8.0.

6.9 New Features with version 5.01.0006

- Support for HD video with 720p and 1080p resolution.
- Support for latest H.264 and HD BVIP devices.
- Video smoothing capability has been added.
- System parameters can be set remotely via Configuration Manager.

6.10 Changes with version 5.01.0006

- Integration of MPEG-ActiveX 5.07 for improved HD support.
  This MPEG-ActiveX version is dedicated for Monitor Wall 5.01 only and shall not be installed anywhere else. A released MPEG-ActiveX 5.10 is available and should be used instead.