

GEUTEBRÜCK

G-Core
Software Version 8.1.1

Release Notes

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G-Core Release 8.1.1

Type	Modul	Detailed Description
Bugfix	G-Core ONVIF IPC plugin	An issue causing a connection fail to an iPro WV-S2136L camera.
Bugfix	G-Core ONVIF plugin	An issue causing the live stream resolution switching although DSS is disabled and the viewer is not resized.
Bugfix	G-Core Axis plugin	Improved stability when connecting to Axis cameras.
Bugfix	G-Core Face mask detection	An issue causing the detection not to work properly.
Bugfix	G-View on G-Viewstation G3	An issue causing G-View to crash on a G-Viewstation G3.
Bugfix	G-Core G-Web	A missing library file caused a crash of G-Web when using a connection to older GeViScope or re_porter Devices.
Bugfix	G-Core G-View / G-Set	An issue causing G-View and G-Set crashing with a PNS camera with H.264.
Bugfix	G-Core Bosch IPC plugin	An issue causing a crash of the G-Core server.
Bugfix	G-Core G-View	An issue causing G-View to crash after several forced log-offs by Windows. Solution: Use Direct 3D mode if forced log-off after n minutes is turned on.
Bugfix	G-Core Server	A bug that caused the memory consumption in the G-Core server to increase significantly over the course of a week.
Bugfix	G-Core G-Tect	A bug that causes memory usage to steadily increase when using G-Tect.
Bugfix	G-Core G-Tect	A bug causing G-Tect to crash in some cases if a TimerangeChanged notification occurred.
Bugfix	G-View	An issue causing reduced performance on generation 12 hardware. Solution: On gen 12 hardware Direct 3D 11 must be activated.
Bugfix	G-Core G-View	A bug causing that video footage of body worn cameras could not be replayed in G-View.
Bugfix	G-Core services	An issue causing the G-Core services not being installed correctly.
Bugfix	G-Core G-View	An issue causing audio playback of a recorded MP4 file to break after a few minutes
Bugfix	G-Core Axis BWC	An issue causing a G-Core server crash after some time.
Bugfix	G-Core ONVIF IPC plugin	An issue that caused HikVision cameras not to be displayed or the pan/tilt functions not to be executed.
Bugfix	G-Core Central action manager	An issue causing Central action manager not to behave correctly.
Bugfix	G-Core G-Tect	An issue causing increase of memory usage after setup change
Improvement	G-Core	Memory usage detection has been implemented, which checks at regular intervals whether there is still enough memory available. If there is not enough memory available, the device is restarted automatically. The behavior can be set in the Windows registry.
Improvement	G-Core Axis Multihead plugin	After a change in the setup that does not affect the Axis Multihead, the connection to the Axis camera is not re-established. This reduces the risk of recording gaps in the event of setup changes.
Improvement	G-Core	The G-Core module MediaPlayer checks at startup whether the Intel graphics card UHD 7xx is present and the required Intel driver 31.0.101.4091 is installed. If a driver other than the required one is installed, a warning is displayed the first time a channel is switched to a viewer. All other viewers will also display this warning. After 5 minutes, the warning vanishes and is only displayed again after the client is restarted. The central solution causes the warning to be displayed automatically in all clients (G-View, G-Set, G-SIM OpCon, SDK application, ...).
Improvement	G-Core	Made slight modifications to the buffer pools used for GLib-Buffers, aiming at optimizing memory usage and improving performance during high-demand scenarios.

Release Notes for the Main Features

Windows 11 compatibility:

- G-Core server and clients are now fully compatible to Windows 11.

Videoplayer enhancements

- Client warnings due to unexpected graphics driver: If an unexpected Intel graphics driver is installed on the device where the client (G-View, G-SIM OpCon) is running, a warning message is displayed inside the viewers for 5 minutes after the first channel assignment to any viewer. The message automatically disappears from all viewers after this time.
- For hardware based decoding with Intel UHD 7xx devices the Intel graphics driver 31.0.101.4091 is needed. It [can be downloaded here](#).
- Enhanced video metadata rendering capabilities for improved performance. This update means faster rendering of overlay metadata, leading to higher display frame rates for a smoother video playback experience. Especially for High DPI displays (4k or more) with activated scaling the performance is improved.
- Updated our video processing library to ensure compatibility with the latest video standards, enhancing performance and stability.

Enhancements:

- Optimized memory management for improved performance, especially in high-demand video recording and playback environments.
- Improved memory handling methods for smoother software operation under heavy load.
- Eliminated unnecessary logging entries, improving system diagnostics and efficiency.
- Improved logging capabilities for better diagnostics and troubleshooting, particularly for camera connectivity and resolution issues.
- Enhanced handling of large volumes of video data, reducing performance bottlenecks.

Further hints:

- DVSP8 and DVSP16 devices are no longer supported on Windows 10 and Windows 11 with *Secure Boot option* activated.
- With G-Core 8.1.1, support for the "Body temperature measuring" feature will be discontinued.

G-Core 8.1.1 System Requirements

SERVER:

Storage for video	minimal: 50GB, recommended at least 1TB
Storage for installation	minimal 50GB, recommended: 128GB
RAM	min. 8GB. If G-Tect shall be used together with high resolution cameras (4k) a higher amount of memory ist strongly recommended (32 GB)
CPU recommendation	see table below
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 LTSB(1809), (21H2), Windows 11 (22H2), Windows Server 2016, Windows Server 2019 (1809), Windows Server 2022 (21H2)
Microsoft SQL Server	SQL Server 2014, 2019 & 2022, SQL Server 2014 Express, 2019 Express & 2022 Express
Microsoft .Net Version	.NET Framework 4.8 & .NET 6.0
Graphics card	Intel graphics card (only for hardware decoding)

CLIENT:

SDK: same requirement as the client

Storage for installation	minimal: 5GB
RAM	min. 8GB. If high resolution (4k) cameras and monitors shall be used a higher amount of memory is strongly recommended. 32 GB or more. Please see our performance tests as well.
CPU recommendation	see table below
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 LTSB(1809), (21H2), Windows 11 (22H2), Windows Server 2016, Windows Server 2019 (1809), Windows Server 2022 (21H2)
Microsoft .Net Version	.NET Framework 4.8 & .NET 6.0
Graphics card	Intel graphics card (only for hardware decoding)

These drivers are not necessarily part of the G-Core installer. You may find an updated list in our Knowledge Base: <https://support.geutebrueck.com/de/search/detail/intel-gpu-driver-recommendation.html>

G-Core 8.1.1 System Requirements

HARDWARE RECOMMENDATION:

We recommend the following CPU and Intel graphic drivers. We cannot guarantee functionality and performance without the use of recommended drivers. GPU drivers are like any software, each new release can introduce performance and stability issues. If a problem appears at one point, we recommend to try to use a tested version.

View Stations:

For older hardware please disable the "Direct 3D-11 Rendering" setting in the general section of the G-View settings.

DIRECT3D-11 rendering activated:

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version
12th Generation Intel® Core™	Alder Lake	Core 12000 Serie Processor	Intel® UHD Graphics 770	31.0.101.4091 (Win 10 21H2)

DIRECT3D-11 rendering NOT activated:

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version
10th Generation Intel® Core™ i3	Comet Lake	Core 10300 Serie Processor	Intel® UHD Graphics 630	31.0.101.2115
9th Generation Intel® Core™ i3, i5, i7, i9 Processors		Core 9100 Serie Processor Core 9500 Serie Processor Core 9700 Serie Processor Core 9900K Serie Processor Xeon E-2244G Processor	Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics P630	31.0.101.2115
8th Generation Intel® Core™ i3, i5, i7 Processors	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630	31.0.101.2115
7th Generation Intel® Core™ i3, i5, i7 Processors	Kaby Lake	Core i3- 7100TE Processor 3.9Ghz Core i5- 7500 Processor 3.4Ghz Core i7- 7700 Processor 3.6Ghz	Intel® HD Graphics 630	31.0.101.2115
6th generation Intel® Core™ i3, i5, i7 Processors	Skylake	Core i3- 6100TE Processor 2.7Ghz Core i5- 6500 Processor 3.2Ghz Core i7- 6700 Processor 3.4Ghz	Intel® HD Graphics 530	31.0.101.2115
Intel® Xeon® Processors E3 v6 Familie	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	31.0.101.2115
Intel® Celeron® Processors J Serie	Gemini Lake	Intel Celeron J4105 2.5Ghz	Intel® UHD Graphics 600	31.0.101.2115

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<https://support.geutebrueck.com/de/search/detail/intel-gpu-driver-recommendation.html>

Geutebrück supports the following features of the Onvif S Profile (Client) and the Onvif T Profile (Client) :

Features			
General		S	T
System Settings		C	C
User Authentication	WS-Username Token	M	
	Digest Authentication	M	M
User Handling		C	C
Query Services and Capabilities		M	M
Device Discovery		C	M
Network Configuration		C	M
Zero configuration		C	
IP Address Filtering		C	
NTP		C	C
Media Profile Configuration		C	C
Media Transport	(1) RTP/UDP	M	M
	(1) RTP/RTSP/HTTP/TCP	M	M
	RTP/RTSP/HTTPS/TCP	M	C
	RTP/UDP Multicast	C	C
Video			
Video Streaming	MJPEG	M	
	MPEG4	C	
	H.264	C	M
	H.265		M
Video Encoder Configuration		M	M
Video Source Configuration		C	C
Media Profile Streaming Ready out of the box		C	M
Video Streaming	RTSP/RTP	M	M
Imaging Settings			M

Features			
Events		S	T
Event Handling	Pull-point	M	M
	Base-notification	M	
Motion Alarm Events			M
Tampering Event			M
Audio			
Audio Streaming	G.711	C	C
	AAC	C	C
	G726	C	C
Audio Encoder Configuration		C	C
PTZ			
PTZ Move	Absolute	C	M
	Continuous	C	M
	Relative	C	
PTZ Presets		C	C
PTZ – Home Position		C	C
PTZ Configuration		C	C
Additional			
Relay Outputs		C	C
Auxiliary commands		C	C
Focus Control			C
Digital Inputs			C
Metadata Configuration		C	C
Metadata Streaming			C

(1) Client must support at least one of UDP and HTTP.

Function List use the following abbreviations:

M: Mandatory

C: Conditional

= Feature is supported.

= Feature is not supported.

Technical alterations reserved.

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