

GEUTEBRÜCK

G-Core
Software Version 8.0

Release Notes

Table of contents

Release Notes 4

Feature Description5

System Requirements..... 6

ONVIF S Profile and T Profile Features 8

G-Core Release 8.0

Type	Modul	Detailed Description
Bugfix	Axis IPC plugin	An issue causing that the maximum resolution of camera type Axis Q3819-PVE with H.264 cannot be used in G-Core. H.265 is not working at all.
Bugfix	G-Core Axis and ONVIF IPC plugins	An issue causing the outputs-contacts in Axis and Onvif to be numbered 2-5 instead of 1-4.
Bugfix	G-Core server	An issue causing a G-Core server crash when a thermal camera is connected to an ONVIF plugin.
Bugfix	G-Core server	A bug causing no client to be connected to the server.
Bugfix	G-Core Axis IPC-Plugin	An issue causing not being able to use Axis camera contacts.
Bugfix	G-Core Plugins ONVIF, Samsung and Wisenet	An issue causing that camera certificates are not checked in the ONVIF, Samsung and Wisenet plugins
Bugfix	Body worn Kamera (BWC)	A bug causing that the BWC was not working with G-Core 8.
Bugfix	G-Core Axis BWC	An issue causing a G-Core server crash after some time.
Bugfix	G-Core G-Tect	An issue causing increase of memory usage after setup change
Improvement	G-Core Installer	The Intel graphics card driver has been removed from the installer. It must now be installed manually if required. The compatibility list must be considered
Improvement	G-Core	Security update to ZLib 1.2.13
Improvement	G-View	The audio configuration made in G-View is now persistent. After a restart of G-View it will be restored automatically.
Improvement	ONVIF IPC plugin	Area zoom now works with Hawha cameras as well.
Improvement	ONVIF IPC plugin	An issue where HikVision cameras implementing Onvif 19.12 were not able to be connected to G-Core.
Improvement	G-Core Installer	The obsolete Microsoft Framework .Net 4.0 will no longer be installed. The .Net 5.0 framework has been replaced by .Net 6.0.
Improvement	G-View	Cross-server synchronization of video channels with audio (one channel has audio) has been improved.
New feature	G-Core	<p>The 2-way audio transmission is a new feature of G-Core that extends our current ONVIF plugin. It gives our operators the ability to talk directly to specific people through the camera speakers. The operator can use the microphone on the client computer to easily fulfill various scenarios such as directly addressing offenders during crimes.</p> <p>The 2-way audio transmission enables future developments such as the transmission of announcements or warning messages on extensive premises.</p>

Release Notes for the Main Features

Smart licensing

With G-Core 8.0 comes our new licensing procedure: Smart Licensing. It makes license ordering and management for G-Core, G-SIM and G-Health software easier and more flexible for you.

Accompanying this new licensing procedure we made it easier to prolong the upgrade eligibility for your system. Depending on the number of activated CamConnect options you can choose from 4 different upgrade packages that can be ordered directly in our shop and easily be activated on your system.

NOTE: The "Locking Code" is the identification number for your system. Therefore, please write down the locking code in a safe place.

2-way-audio transmission with ONVIF plugin

2-way-audio transmission allows to talk to persons via the camera integrated or external speakers.

Potential offenders can thus be deterred at an early stage.

Currently works only with the ONVIF IPC plugin in G-Core and G-View.

Reveal Bodyworn camera

G-Core is now prepared for using Reveal body worn cameras.

The Reveal BWC application to use the body cams will be released separately.

Customized user actions

Customized user actions allow to adapt G-Core actions to match requirements more accurate.

The action must be defined in an XML file which then must be copied to the server and client application folders.

After restart of the application the new actions are available.

G-Core installer

To close security gaps and streamline the installer, libraries have been updated and those that are no longer needed have been removed.

The Intel graphics driver has been removed from the installer as well. If required please manually install the driver. Please refer to the dedicated compatibility list.

Recertification to ONVIF profiles

We recertified our ONVIF T and S implementations

Please note that the support for G-Core 6.x ends with this release. No further bug-fix releases for this version will be created

G-Core 8.0 System Requirements

SERVER:

Storage for video	minimal: 50GB, recommended at least 1TB
Storage for installation	minimal 50GB, recommended: 128GB
RAM	min. 8GB
CPU recommendation	see table below
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 LTSC(1809), (21H2), Windows Server 2019 (1809), Windows Server 2022 (21H2)
Microsoft SQL Server	SQL Server 2014 & 2019, SQL Server 2014 Express & 2019 Express (Microsoft SQL Server Express supports 1 physical processor, 1 GB memory, and 10 GB storage)
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: 5G B
RAM	min. 8GB
CPU recommendation	see table below
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 LTSC(1809), (21H2), 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 8.0 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

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	27.20.100.9466 DCH (Win 10 21H1)
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	27.20.100.9168 DCH (Win 10 1809) 27.20.100.9168 DCH (Win 10 1809) 27.20.100.9168 DCH (Win 10 1809) 27.20.100.9168 DCH (Win 10 1809) 27.20.100.9168 DCH (Win Serv 2019 1809)
8th Generation Intel® Core™ i3, i5, i7 Processors	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630	25.20.100.6519 DCH (Win 10 1809)
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	26.20.100.7263 (Win 10 1809) 26.20.100.7584 (Win 10 1809, DCH)
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	27.20.100.8682 (Win 10)
4th Generation Intel® Core™ i3, i5, i7 Processors	Haswell	Core i5-4570S Processor 2.9Ghz Core i7-4770S Processor 3.1GHz	Intel® HD Graphics 4600	20.19.15.4377 (Win 10 1607)
Intel® Xeon® Processors E3 v6 Familie	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	21.20.16.4678 (Win Serv 2016, Legacy)
Intel® Celeron® Processors J Serie	Gemini Lake	Intel Celeron J4105 2.5 Ghz	Intel® UHD Graphics 600	27.20.100.9168 (Win 10 1809)

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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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