GEUTEBRÜCK

G-Core
Software Version 5.0

Release Notes

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Dear business partners,

In the course of an update from G-Core to non-Geutebrück hardware, we would like to point out that the following information must be observed and checked!

For regular Windows 10 installations Intel® has changed the driver model to so-called DCH drivers. These are distributed via the Windows Update and are no longer compatible with the Intel® drivers previously used, so-called legacy drivers. The installation of a DCH driver is not reversible.

The new DCH drivers are used with the following Windows versions:

- Windows 10 1709
- Windows 10 1803
- Windows 10 1809
- Windows Server 2019

If a driver with **version 25.20.100.6444** or newer is installed on one of these systems, it is most likely a DCH driver. The exact version can be checked on the Intel® homepage.

The Geutebrück G-Core Installer contains drivers that are installed on all HW platforms known to us. However, these are legacy drivers. If a legacy driver is installed on a system with new drivers, this can cause lasting damage to your system.

Installations that use Geutebrück hardware or a Geutebrück system image are not affected, as Geutebrück uses a Windows Embedded version (Windows 10 1607). This version does not support the Intel® DCH drivers, so the legacy drivers included in the installation can still be used without restrictions.

Why do Geutebrück install drivers?

Specially tested drivers are installed by us to ensure maximum operational reliability and performance on platforms known to us.

How do I proceed with the installation?
Geutebrück has adapted the G-Core installation to the extent that it checks whether Windows 10 1709/1803 or 1809 are installed on the system and warns the user accordingly, the installation of the Intel® drivers is automatically deselected.

In this case our software will use the already installed new DCH driver. Of course the GPU acceleration is also available with the DHC drivers. If you notice any abnormalities or are unsure about the performance, please contact our service department.

If necessary, the driver version must be checked manually to see if a legacy driver is installed. Only then may the legacy driver be downgraded by the Geutebrück installer by selecting the driver package in the installer.

What do I have to consider after installing with DCH drivers?
As a general rule, if G-Core software is run on your own hardware and Windows installations, you must check how performance and memory consumption are represented and change when Windows updates are performed.

This applies to all Geutebrück products that use GPU Intel® acceleration.

Further information about the drivers can be found on the following page:
https://www.intel.com/content/www/us/en/support/articles/000031275/graphics-drivers.html

If you have any questions, the Geutebrück team is at your disposal via the hotline or service@geutebrueck.com.

G-Core 5.0.0

Software	Type	Short Description	Detailed Description
New Feature	G-Tect AI	Detection of personal protective equipment	The detection of personal protective equipment (PPE) can be enabled via license. The G-Tect/ProtectiveEquipment includes helmets and vests. The algorithm checks whether they are worn by a person.
New Feature	Server	new PTZ preset action with a string	The new PTZ preset action now supports a string as input value. The action can be used with custom buttons. The new action is called PrePosCallUpOnvif.
New Feature	E4 plugin	G-Cam E4 Fisheye	The E4 plugin is now ready to use the new E4 fisheye camera G-Cam/EHC-4888 & G-Cam/EHC-4781.
New Feature	Server	SDK - G-Core Server read only mode	There is a new API for enabling read only mode of the server to stop all recordings. Please see the SDK documentation for more details.
New Feature	G-Tect AI	G-Tect AI integration	The G-Tect service allows the use of neural networks. Unlocking the AI integration requires one license per channel. The license G-Tect/AI-Connect contains a general network which allows the detection of persons, cars, trucks, mobiles and notebooks.
New Feature	Server	H265 Software Decoder	For all hardware platforms that do not support decompression of H.265 video with Intel GPU acceleration, there is an automatic fallback to a software decoder. This guarantees that video can be viewed but with a much higher cpu load.
New Feature	Bosch Plugin	Object drawing	Only objects are drawn in the viewer which triggered an alarm. Additionally the plugin now saves the VCA data in the local database. The TTL can be set in the plugin.
New Feature	Server	Live Stream Proxy	A plugin that manages live stream connections. See the online documentation for more technical information. The feature needs to be licensed. Please contact sales for more information.
New Feature	Server	Replication Status Page	A standalone application which shows the replication status of connected G-Core servers. Works only in connection with the G-Core Database Replication.
New Feature	Server	Database Replication	G-Core can now replicate the event and video data from a source G-Core server. See the online documentation for more technical information. The feature needs to be licensed. Please contact sales for more information. Remarks:The following features in G-View are currently not working with replicated video data: OSD drawing, some playmodes, timeline with events, event search & list, export of GBF files
New Feature	Plugin	People counting	For the people counting solution in combination with the VCA software there is now a people counting plugin integrated.
New Feature	G-Tect AI	Detection of Face masks	The Detection of face masks can be enabled with the license G-Tect/FaceMask. The algorithm checks if it is worn by a person.
New Feature	Server	G-Core database size	G-Core now supports a maximum video database size up to 450 TB.
Improvement	G-Tect	G-Tect improvements	The G-Tect failover takes the original setup into account when a failback happens. Additionally an external G-Tect needs the same version as the G-Core server.
Bugfix	Diagnostic Tool	Diagnostic Tool setup export	For the G-Core setup export you need a server connection now to get a valid setup file.
Bugfix	G-Set	Video profiles description	The video profiles description for H.264 were changed to H.26X. They are working with H.265, too.
Bugfix	G-Web	G-Web threads increase	The permanent threads increase when adding and closing viewers in G-Web is fixed now.
Bugfix	Failover	G-Core Failover - Database recording depth	In case of a G-Core failover the database size was limited to one day recording depth. It is only necessary to install the new SAM on the device with the Failover-Dongle to fix this problem.
Bugfix	Audit Trail	Image export notification	The image export notification action is now sent again on export. There is an entry in the audit trail as well.
Bugfix	G-Set	G-Set	The compatibility of different G-Set versions has been improved. G-Set can now handle unknown actions.

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G-Core 5.0 System Requirements

SERVER:

Storage for video	minimal: 50 GB, recommended at least 1 TB
Storage for installation	minimal 50 GB, recommended: 128 GB
RAM	min. 8 GB
CPU recommendation	7th Generation Intel Core i5 (min. 2,4 GHz)
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 LTSB (1607), (1809), Windows Server 2016, Windows Server 2019
Microsoft SQL Server	SQL Server 2014, SQL Server 2014 Express (Microsoft SQL Server Express supports 1 physical processor, 1 GB memory, and 10 GB storage)
Microsoft .Net Version	.NET Framework 3.5 & .NET Framework 4.6.1
Graphics card	Intel graphics card (only for hardware decoding)

CLIENT: SDK: same requirement as the client

Storage for installation	minimal: 5 GB
RAM	min. 8 GB
CPU recommendation	7th Generation Intel Core i3
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 LTSB (1607), (1809), Windows Server 2016, Windows Server 2019
Microsoft .Net Version	.NET Framework 3.5 & .NET Framework 4.6.1
Graphics card	Intel graphics card

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.

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version	Graphic Driver Version
4th generation Intel® Core™ i3, i5, i7 Processors	Haswell	Core i3-4330 Processor 3.5Ghz Core i5-4570S Processor 2.9Ghz Core i7-4770S Processor 3.1GHz	Intel® HD Graphics 4600	15.36.28.4332 (Win 8.1)	20.19.15.4377 (Win 10 1607)
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	21.20.16.4639 (Win 8.1)	
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	21.20.16.4678 (Win 10 1607)	26.20.100.7263 (Win 10 1809, Legacy) 26.20.100.7584 (Win 10 1809, DCH)
8th Generation Intel® Core™ i3, i5, i7 Processors	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630		25.20.100.6519 (Win 10 1809)
Intel® Celeron® Processor J Series	Gemini Lake	Intel Celeron J4105 2.5 Ghz	Intel® UHD Graphics 600	25.20.100.6582 (Win 10 1607)	
Intel® Xeon® Processor E3 v6 Family	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	21.20.16.4678 (Win Serv 2016)	

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

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ONVIF S Profile and T Profile Features

Onvif®

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

Features		S	T
General			
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		S	T
Events			
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.

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