GEUTEBRÜCK

G-Core

Software Version 5.1

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 5.1.0

Software	Type	Short Description	Detailled Description
New Feature	G-Tect AI	Coloring of detections	The recognitions drawn in G-Set and G-View are now color-coordinated to give the user visual feedback. For example, objects classified as "Protected" in Face Mask Basic are now displayed in green instead of red.
New Feature	LPR	LPR	Flight container plugin is now available in LPR setup
New Feature	Installer	G-Core Installer	In this G-Core release several plugins have been added. In order to maintain optimal system stability we recommend to use only the necessary plugins. For this reason the option for full installation in the installer has been removed.
New Feature	G-Tect AI	Tracking and sensitivity	Objects are tracked and their continuous detection is counted. A slider can now be used to configure the sensitivity of the detection before an alarm is triggered. This makes detection easily adaptable to different scenarios and use cases. If the sensitivity is high, a single detection is sufficient to trigger the alarm. A low sensitivity means that an alarm is only triggered if the same object is detected several times.
New Feature	Plugin	Modbus I/O Connect	The Modbus I/O plugin allows the connection of a G-Core system with external I/O modules that communicate via the Modbus standard. In general this includes functionalitys like receiving the I/O states of the module and the connection with events. For further details please go to the G-Core online help.
New Feature	SDK	SDK - Direct Image Feed API	It is now possible to feed single JPEG images into G-Core over an SDK interface. The image are routed through an internal media channel and can be stored in the video database. Please see the SDK documentation for more details.
New Feature	Plugin	Body temperature measurement	G-Core contains a plugin for real-time body temperature measurement. For further information please refer to the online help or contact the sales department.
Bugfix	G-View	G-View	In G-View, the behavior of slow forward and backward has been improved. P-frames are no longer skipped.
Bugfix	SAM	Edge Recording option	When used Edge recording in GCore, there will be only one GCoreCamConnect option consumed.
Bugfix	SAM	G-Core Remote SAM	The connection to the Remote SAM has been improved.
Bugfix	VAM	VAM	Deletion of old records has been improved.
Bugfix	TC Server	TC-Server	The problems with transcoding within the transcoding server have been fixed.
Bugfix	G-Set	G-Set Dialog Optionen	The requrest token is now saved without unnecessary characters.

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G-Core 5.1 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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Technical alterations reserved.

GEUTEBRÜCK GmbH
Im Nassen 7-9 | D-53578 Windhagen | Tel. +49 (0)2645 137-0 | Fax-999 | E-mail: info@geutebrueck.com | Web: **www.geutebrueck.com**