

GEUTEBRÜCK

G-Core
Software Version 6.0.0

Release Notes

GEUTEBRÜCK

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 DCH 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 Release 6.0.0

Software	Type	Short Description	Detailed Description
New Feature	Viewer	Synced Viewer	Another synchronization mode has been added and the documentation has been revised. For more information, see the G-Core help.
New Feature	VCA	VCAServer Integration - Actions	Several new actions have been added to G-Core. For more information please refer to the ATI documentation in the G-Core help.
New Feature	Plugins	ONVIF - Wisenet Encoder Integration	You can enable sync loss detection for Wisenet encoders in the ONVIF plugin. For more information please refer to the ATI documentation in the G-Core help.
New Feature	Plugins	Axis Plugin - H265 Support	H265 can now be used as codec in Axis Plugin.
New Feature	Plugins	BOSCH IVA - Continues Object Drawing	Bosch IPC Plugin now allows drawing of moving objects within live and recorded streams. Therefore the tracking information is created in the plugin for each object itself.
New Feature	Plugins	Axis Bodycam Integration	<p>The Axis Bodycam Integration describes the connection between our Geutebrück VMS G-Core and the Axis Bodyworn System.</p> <p>The core functionality features the data transfer of video and audio files to the G-Core DB, which enables the possibility to view and search for this footage inside of G-View and to synchronize it with other video footage.</p> <p>The integration in G-Core covers a centralized view of all the footage from the connected bodycams and enables the operator to easily search for specific bodycam users in a specified range of time.</p> <p>The data transfer is fully automated after configuration and requires only enough space on the internal hard drive. The video footage afterwards include different water marks to ensure a manipulation proof usage.</p>
New Feature	PLC	Digital Output Action Processing	With HKLM\SOFTWARE\Geutebrueck\Gng\Server\PLC -> AllowUnknownOutputContacts = DWORD" is set to 1 you can now process unknown Output Contacts in the PLC.
New Feature	LPR	LPR Direction Filter	The configuration options of G-Tect/LPR have been extended. It is now possible to filter out movements of vehicles respectively license plates.
New Feature	G-Tect	Notification if G-Tect Service stops	Admin can be informed about the stop of G-Tect service and where service is running after Failover via new action.
New Feature	FaceRec	Prepare for a new FaceRec Action to enable better communication with SAFR.	Preparation for new FaceRec Action to allow better communication to SAFR. There is a new Face Recognition Action to allow most important information to be displayed in G-View provided by SAFR or other future Face Recognition providers.
New Feature	Database	Global Database Settings	There is now the improved possibility to centrally time limit the storage depth for all video and event data. These settings support you in the data protection-compliant setup of your G-Core system.
Improvement	Video Export	MP4 Export with Privacy Masking	The MP4 export now contains the client privacy masking again.
Improvement	Plugins	ONVIF Plugin - Axis Q6705	Better support for the Axis Q6705 camera.
Improvement	Plugins	ONVIF Plugin - Stability Improvement	In some cases (e.g. Wisenet cameras) there were crashes in the ONVIF plugin. The overall stability has been improved.
Improvement	Plugins	ONVIF Plugin - Input Contacts	The function of the input contacts has been improved.
Improvement	LPR	LPR Installer Display	The display of the LPR Installer has been improved.
Improvement	LPR	LPR - Maximum Instance Number	Systems are unexpectedly no longer sufficiently licensed. An error occurred during the initialization of the G-Tect/LPR setup when calculating the required G-Tect/LPR options. The number of required options was expanded to the amount of available cores on the CPU. This error has been fixed.
Information	Plugins	ONVIF Plugin - Smooth Movement of PTZ	With some PTZ cameras there are not smooth movements of the PTZ control. In these cases setting the registry key "ptz.SendPanTiltWithoutZoom" in the plugin can improve the behavior.
Bugfix	PLC	PLC Simulator	The digital I/O buttons were not colored correctly. The problem has been fixed.
Bugfix	LPR	C2V Creation with LPR Installer	When creating an LPR request required for licensing via LPR softdongle (.c2v file), the save operation was not completed. The error has been fixed.
Bugfix	Failover	G-Core Failover - Server Crash	In some cases the G-Core server crashes on failover. This problem is now fixed.
Bugfix	Events	H265 Picture-Event linked	When record a H265 camera over event, then the images will be recorded, but are not correlated to the event, so that in the event list cannot be jump to the images in event. This is fixed now.

G-Core 6.0 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	see table below
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 LTSC (1607), (1809), Windows Server 2016 (1607) Windows Server 2019 (1809)
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	see table below
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 LTSC (1607), (1809), Windows Server 2016 (1607) Windows Server 2019 (1809)
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)

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 6.0 System Requirements

Product Collection	Code Name	Processor-Number	Processor Graphics	Graphic Driver Version	Graphic Driver Version
8. Generation Intel® Core™ i3, i5, i7 Processors 9. Generation Intel® Core™ i3, i5, i7, i9 Processors	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630		25.20.100.6519 DHC (Win 10 1809)
		Core 9100 Serie Processor	Intel® UHD Graphics 630		27.20.100.9168 DHC (Win 10 1809)
		Core 9500 Serie Processor	Intel® UHD Graphics 630		27.20.100.9168 DHC (Win 10 1809)
		Core 9700 Serie Processor	Intel® UHD Graphics 630		27.20.100.9168 DHC (Win 10 1809)
		Core 9900K Serie Processor	Intel® UHD Graphics 630		27.20.100.9168 DHC (Win 10 1809)
		Xeon E-2244G Processor	Intel® UHD Graphics P630		27.20.100.9168 DHC (Win Serv 2019 1809)
Intel® Celeron® Processors J Serie	Gemini Lake	Intel Celeron J4105 2.5 Ghz	Intel® UHD Graphics 600	25.20.100.6582 (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)	

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>

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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