

GEUTEBRÜCK



G-Cam/EWPC-3285

4K HD Micro Bullet IP Camera

Installation

Preface

The information given in this manual was current when published. The company reserves the right to revise and improve its products. All specifications are subject to change without notice.

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Notice



Mounting instructions for Dome Systems and permanently mounted Cameras especially for Pole Mount.

Please note that the place of mounting should be stiff enough to counter strong wind or other vibrations!

Otherwise all VCA functions like Motion Detection, Privacy Masking, etc. either in cameras or with DVRs could be disturbed heavily and can cause unliked and often alarms.

In some cases mechanical problems or defects can be the result of such vibrations, like overheating of focus motors caused by persistent mast shaking!

This manual provides the installation information for the 4MP Micro Bullet IP Camera. To work with the Dome Cameras, any installer or technician must have the following minimum qualifications:

- A basic knowledge of CCTV systems and components
- A basic knowledge of electrical wiring and low-voltage electrical hookups
- A basic knowledge of network system setting
- Have read this manual completely

Important Information

Before proceeding, please read and observe all instructions and warnings in this manual. Retain this manual with the original bill of sale for future reference and, if necessary, warranty service. When unpacking the unit, check for missing or damaged items. If any item is missing, or if damage is evident, DO NOT INSTALL OR OPERATE THIS PRODUCT. Contact the dealer for assistance.

Regulation



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



This symbol on the product or on its packaging indicates that this product shall **not** be treated as **household waste** in accordance with Directive 2002 / 96 / EC. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By proper waste handling of this product, please ensure that it has no negative consequences for the environment and human health, which could otherwise be caused if this product is thrown into the garbage bin. The recycling of materials will help to conserve natural resources.

For more details information about recycling of this product, please contact the local city office, household waste disposal service or the shop which purchased the product.



Compliance is evidenced by written declaration from our suppliers, assuring that any potential trace contamination levels of restricted substances are below the maximum level set by EU Directive 2002 / 95 / EC, or are exempted due to their application.

Warnings and Cautions

- **Handle the camera carefully**

Do not abuse the camera. Avoid striking, shaking, etc. The camera could be damaged by improper handling or storage.

- **Installing electricity wiring carefully**

Ask qualified personnel of electrical wiring for the installation. Please note the technical specifications for correct power supply at the end of this manual.

- **Do not disassemble the camera**

To prevent electric shock, do not remove screws or covers, only if you want to execute special functions like inserting a SD card, etc. There are no user serviceable parts inside. Ask a qualified service person for servicing.

- **Do not operate the camera beyond the specified temperature, humidity or power source ratings**

Use the camera under conditions which are described in the technical specifications.

- **Do not use strong or abrasive detergents when cleaning the camera body**

Use a dry cloth to clean the camera when it is dirty. In case the dirt is hard to remove, use a mild detergent and wipe the camera gently.

- **Never face the camera towards the sun**

Do not aim the camera at bright objects. Whether the camera is in use or not, never aim it at the sun or other extremely bright objects. Otherwise, the camera may be smeared or damaged.



Mounting instructions for Cameras especially for Pole Mount.

Please note that the place of mounting should be stiff enough to counter strong wind or other vibrations!

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1. Overview

The 4 MP Ultra-WDR Micro Bullet IP Camera supports both H.264 and MJPEG standard.

PoE is supported.

The camera also supports shutter WDR function, which can provide better image quality under extreme light contrast scenarios or light changing environments.



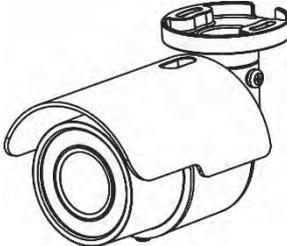
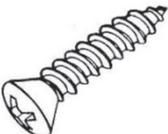
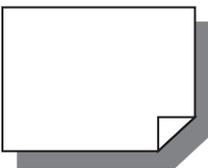
1.1 Features

- Sony Progressive Scan CMOS Sensor
- 4 M Resolution (2688 x 1520)
- Quad Streams Support
- Dual Streams- Full HD 1080p Real-time + Full HD 1080p Real-time
- Dual Stream Compression- H.264 Baseline / Main / High Profile + MJPEG
- Multi-language Support
- Smart Event Function-
Motion Detection / Network Failure Detection / Tampering Alarm
- Ultra Dynamic Range up to 120 dB
- Privacy Masks
- 3D Noise Reduction / 2D Noise Reduction
- Day / Night (ICR)
- IR LED Module (working distance up to 15 m)
- Weatherproof (IP66 International)
- PoE support (IEEE802.3af)
- microSD Support 64 GB
- ONVIF Support

1.2 Package Contents

Please check the package containing the following items listed below.

Vari-Focal Lens

 4 MP Multi-Streams Ultra-WDR Micro Bullet IP Camera with Vari-Focal Lens	
 Self-Tapping Screw (x5)	 Plastic Screw Anchor (x5)
 Quick Guide	 CD (bundled software and documentation)



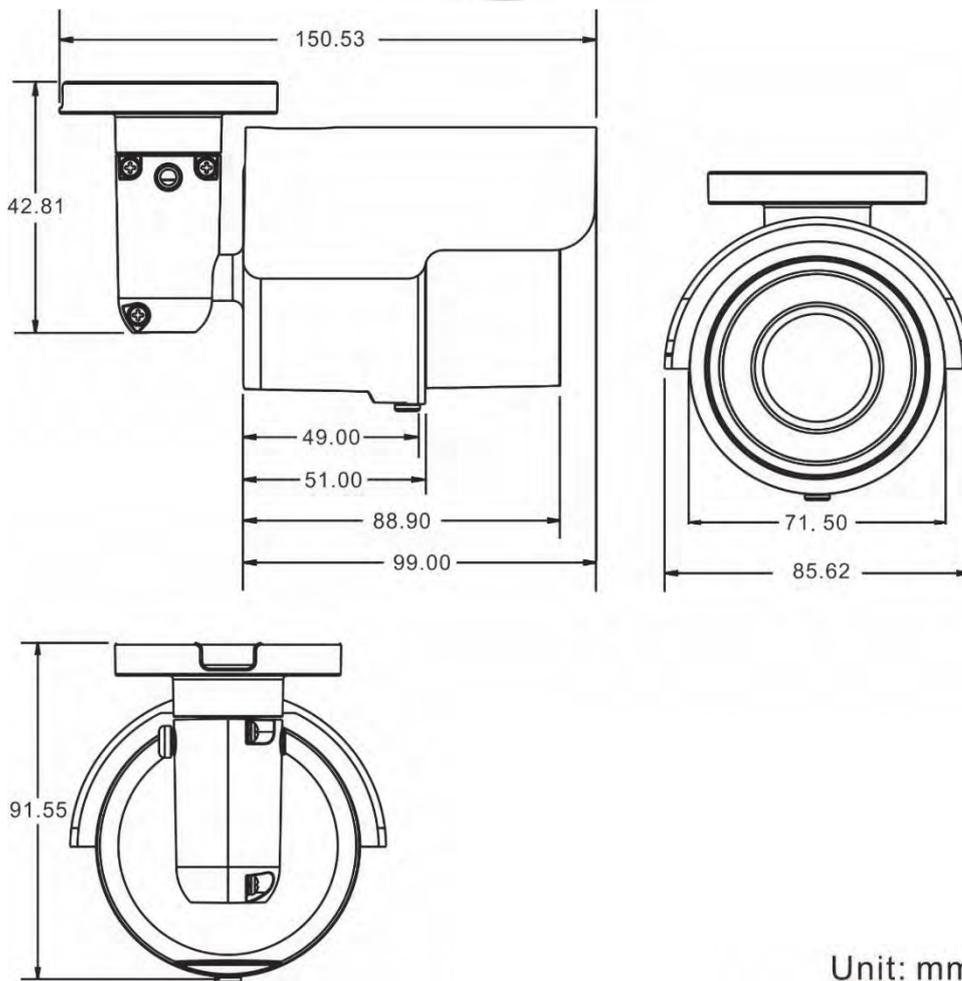
NOTE: The supplied self-tapping screws are for soft substances / materials such as wood. For other installation environments such as cement wall, it is required to pre-drill and use plastic anchors before fastening the supplied self-tapping screws on the wall.

1.3 Dimensions

The dimensions of the camera are shown below.



Vari-Focal Lens



Unit: mm

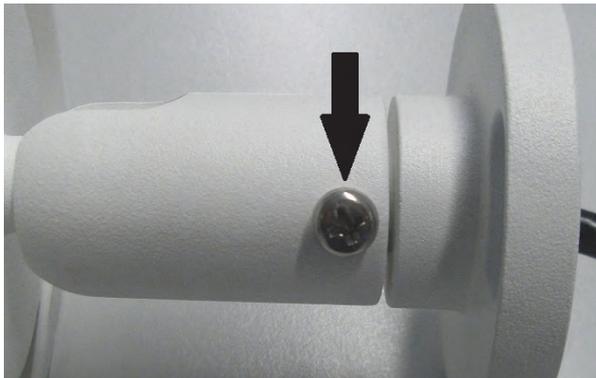
1.4 Installation

Take the camera socket and mark the two places for mounting (see following picture).

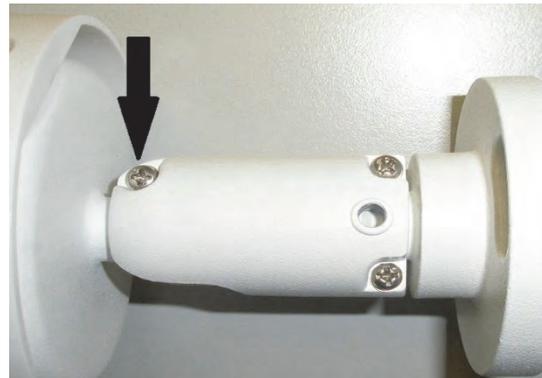


Drill two holes into the wall and press the plastic anchors (accessory bag) into them. You can choose, whether you pull the breakout cable through a third hole in the wall or use the outlet of the camera socket (then you have to ensure that the cable is placed into an IP 66 box). Take two screws (accessory bag) and fix the camera onto the wall.

For correct sight of the camera housing and its socket following screws can be unlocked:

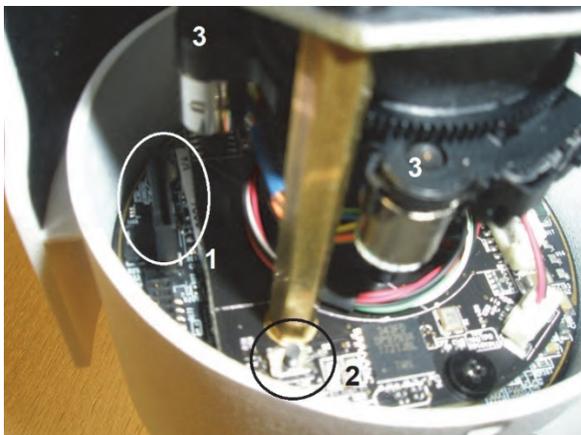


Socket fixing screw

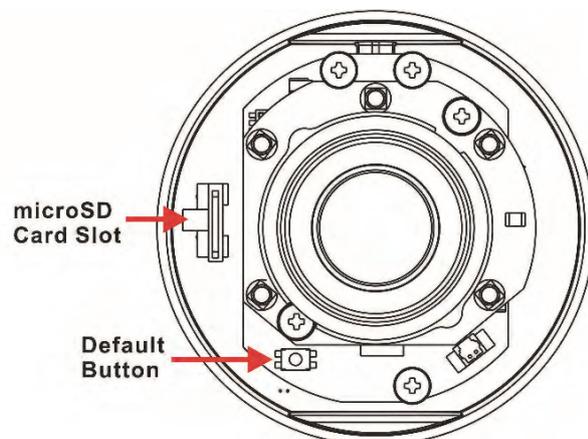


Housing fixing screw

When the desired angle of view is reached, fix these screws. If the lens is not fitting the desired background, correct zoom and focus (3) by using the tools on its webpage, or in G-Set or G-View.



Opened housing: 1 = SD card slot, 2 = Reset button, 3 = motors for zoom/focus



1.5 Breakout cable

RJ-45 Cable

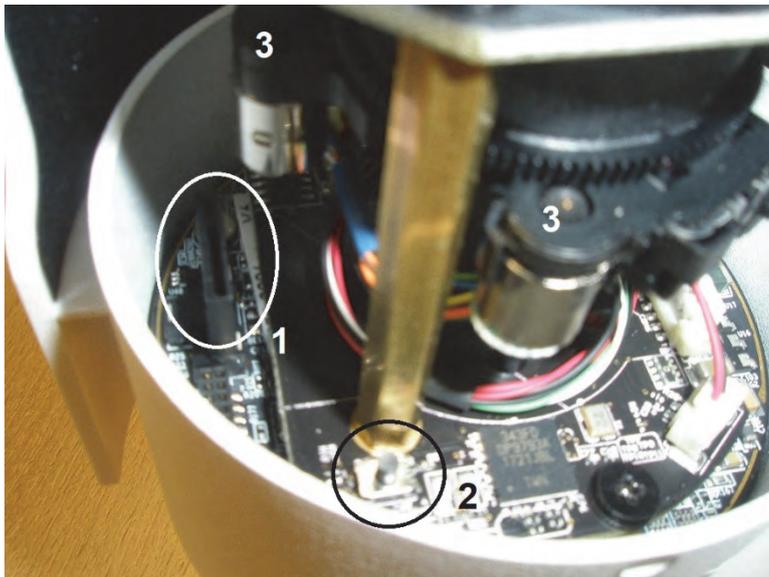


Definition

No.	Connector	Definition
1	RJ-45	For network and PoE connection

1.6 microSD Card Slot / Default Button / Focus + Zoom adjustment

The positions of the microSD card slot, the default button and the motors for Focus and Zoom are shown below.



1 = micro SD card slot

2 = Default button

3 = Focus and Zoom

microSD Card Slot

Insert the microSD card into the card slot to store videos and snapshots. Do not remove the microSD card when the camera is powered on.



NOTE: It is not recommended to record with the microSD card for 24/7 continuously, as it may not be able to support long term continuous data read/write. Please contact the manufacturer of the microSD card for information regarding the reliability and the life expectancy.

Default Button

Press the button with a proper tool for at least 20 seconds to restore the system.

Focus/Zoom

Adjust Focus and Zoom with the tools on the camera webpage, or in G-Set or G-View.

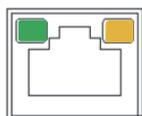
2. Camera Cabling

Before users connect cables, make sure that all cables are placed in dry and waterproofed environments, e.g. waterproof boxes. The purpose is to prevent moisture accumulation inside the camera and moisture penetration into cables, which might lead to camera breakdown. Please follow the instructions below to complete IP camera connection.

2.1 Ethernet Cable / Power Connection

For best transmission quality, cable length shall not exceed 100 meters. Connect one end of the Ethernet cable to the RJ-45 connector of the camera, and plug the other end of the cable to a PoE switch or a PoE injector.

Check the status of the link indicator and the activity indicator LEDs. If the LEDs are unlit, please check the LAN connection.



Green link light indicates good network connection.

Orange activity light flashes for network activity indication.

2.2 Waterproof Cable Connector

To reach safest IP 66, you should use an IP 66 box.

3. System Requirements

To perform the IP camera via web browser, please ensure the PC is in good network connection, and meet system requirements as described below.

Items	System Requirement
Computer	<ol style="list-style-type: none">1. Intel® Pentium® M, 2.16 GHz or Intel® Core™2 Duo, 2.0 GHz2. 2 GB RAM or more
Operating System	Windows VISTA / Windows XP / Windows 7 + 8 + 10
Web Browser	Microsoft Internet Explorer 7.0 or later Firefox Safari
Network Card	10Base-T (10 Mbps), 100Base-TX (100 Mbps) or 1000Base-T (1000 Mbps) operation
Viewer	ActiveX control plug-in for Microsoft IE

* **Note:** In some cases the Internet Explorer 11 mode “Edge” doesn’t show all elements of the page. Under compatibility mode you can switch to IE 10 or lower to solve this problem (press F12).

4. Access Camera

For initial access to the camera, users can search the camera through the installer program: DeviceSearch.exe, which can be found in “Device Search” folder in the supplied CD.

Accessing the Camera by Device Search Software

- Step 1:** Double click on the program Device Search.exe.
- Step 2:** After its window appears, click on the <Device Search> button on the top. All the finding IP devices will be listed in the page.
- Step 3:** Find the camera in the list by its IP address and click on it. The default setting of the camera is **DHCP**. If no DHCP server is in network, the camera sets itself to IP address **192.168.0.250**.
- Step 4:** The default IP address of the camera may not be in the same LAN as the IP address of the PC. If so, the IP address of the camera needs to be changed. Right click on the camera and click <Network Setup>. Meanwhile, record the MAC address of the camera, for future identification.
- Step 5:** The <Network Setup> page will come out. Select <DHCP> and click <Apply> down the page. The camera will be assigned with a new IP address.
- Step 6:** Click <OK> on the Note of setting change. Wait for one minute to re-search the camera.
- Step 7:** Click on the <Device Search> button to re-search all the devices. Find the camera in the list by its MAC address. Then double click or right click and select <Browse> to access the camera directly via web browser.
- Step 8:** A prompt window requesting for default username and password will appear. Enter the default username and password shown below to login to the camera.

Login ID	Password
root	admin



NOTE: ID and password are case sensitive.



NOTE: It is strongly advised that administrator's password be altered for the security concerns. Refer to the [4 MP Multi-Streams Ultra-WDR IP Camera web browser manual](#) in the supplied CD for further details.

Installing Viewer Software Online

For the initial access to the IP camera, a client program, Viewer, will be automatically installed to the PC when connecting to the camera.

If the web browser doesn't allow Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (refer to section [Setup Internet Security](#)) to continue the process.

The Information Bar (just below the URL bar) may come out and ask for permission to install the ActiveX Control for displaying video in browser.

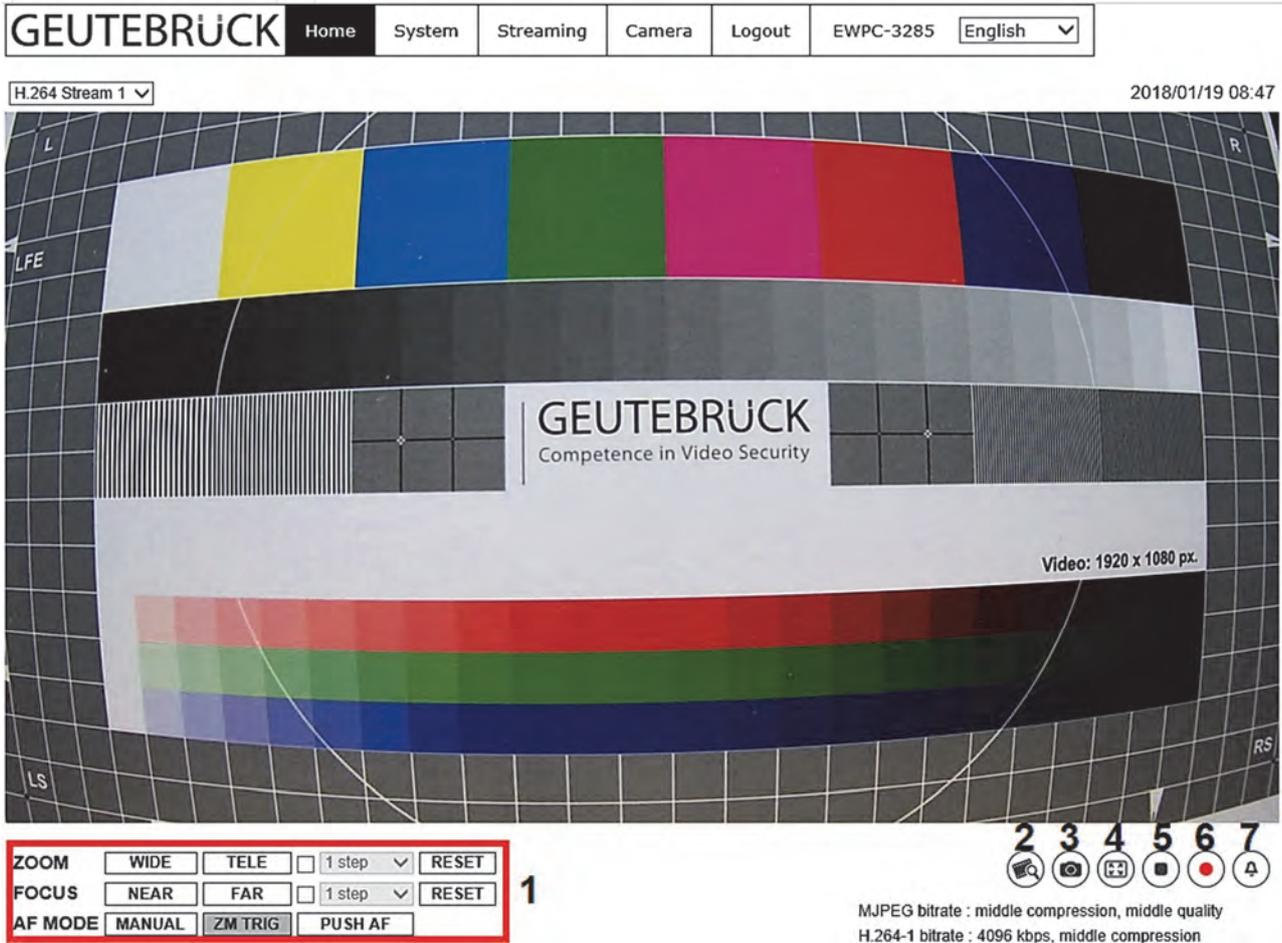
Right click on the Information Bar and select <Install ActiveX Control...> to allow the installation. Then the security warning window will pop up. Click on <Install> to carry on the software installation.

The download procedure of Viewer software is specified as follows.

Step 1: In the Viewer installation window, click on <Next> to start the installation.

Step 2: A status bar will be displayed to show the installation progress. After the installation is completed, click on <Finish> to exit the installation process.

Step 3: Click on <Finish> to close the Viewer installation page.



- 1 = OnScreen-Buttons for Focus and Zoom
- 2 = Display of Stream informations below the buttons
- 3 = Snapshot
- 4 = Full Screen
- 5 = Record Stop
- 6 = Record Start
- 7 = Manual Trigger

Once the Viewer is successfully installed, the Home page of the IP camera will be displayed as the figure below (example only).

 **NOTE:** For more details about the function buttons on the Home page, please refer to the [4 MP Multi-Streams Ultra-WDR IP Camera web browser manual](#) on the supplied CD.

5. Setup Video Resolution

Users can setup video resolution on Video Format page of the browser-based configuration interface.

Video Format can be found under this path: **Streaming > Video Format**.

Default value of video resolution at TV system **with** WDR is:

4M	H.264- 1920 x 1080 (25 fps) + H.264- 720 x 576 (25 fps)
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Default value of video resolution at TV system **without** WDR is:

4M	H.264- 2304 x 1296 (25 fps) + H.264- 720 x 576 (25 fps)
-----------	---



For more details about the combinations of video resolution, please check this by changing the combinations on the Streaming page (shown above).

In general, the camera doesn't support analog video.

Click on <Save> to store your choice.

5.1 Configuration Files Export / Import

To export / import configuration files, users can access the page under **System > File Import/Export**.

Users can export configuration files to a specified location and retrieve data by uploading an existing configuration file to the IP camera.

Export

Users can save the system settings by exporting the configuration file (.bin) to a specified location for future use. Click on the <Export> button, and the popup File Download window will come out. Click on <Save> and specify a desired location for saving the configuration file.

Upload

To upload an existing configuration file to the camera, please first click on <Browse> to select the configuration file, and then click on the <Upload> button for uploading.



NOTE: Between export and import of a setup file you must NOT upgrade your camera! If you upgrade your camera after file export you cannot import this file again.

When you use same firmware you must be sure that the camera model is the same (name and lens type).

6. Commissioning in GEUTEBRÜCK Software



Attention: To install the IP cameras correctly, the software must be in minimum:

- **GeViScope/re_porter Version 7.5.960.11** or higher
- **G-Scope Version 1.1.3.38** or higher

Older Software must be updated. Please download at:
www.geutebrueck.com

6.1 Commissioning of IP Cameras in GSC-Setup

The following steps are required:

- The IP cameras must be assigned an IP address and a function package.
- Adding and configuring of the media channels.
- Proof of the dome functions in Telecontrol.

Following this, the connected IP domes are available in the GeViScope / re_porter.

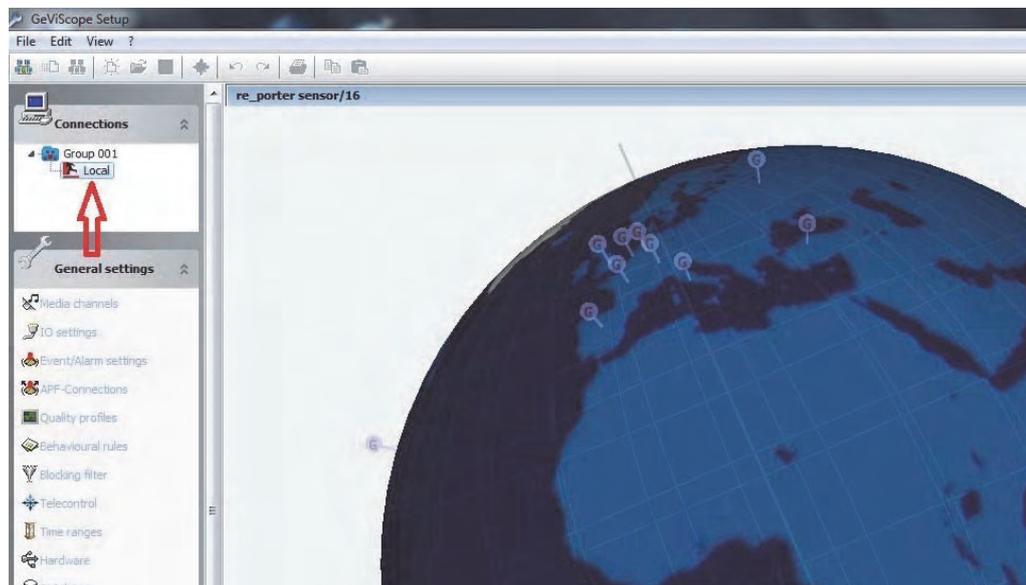
Adding of the G-Cam/E3 IP cameras

Open the GeViScope setup menu by double-clicking the desktop icon



Step 1: Connect the GeViScope to a server in the Connections menu.

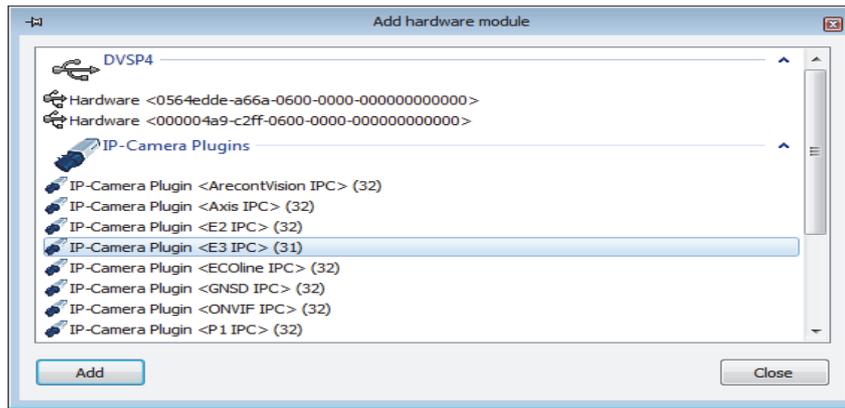
Step 2: Click the left mouse button to open the General Settings menu.



Click the menu item for Hardware in the General Settings menu.

The context menu is opened by clicking the  [Add] button.

In the list that appears, please select the E3 IP camera that you would like to add.



Confirm the selection by clicking **Add**.

The additional IP camera now appears in the hardware module list.

Click the icon  to send the settings to the server.

Select the IP camera that must be configured.

Choose the IP camera settings tab and assign an available IP-address.

Installation information for IP address configuration:

IP domes use static IP addresses. Therefore, the IP address of the GeViScope must have an IP address from the same IP subnet as the IP dome device.

a) Static IP address

GeViScope is assigned a fixed static IP address with the same IP subnet as the IP dome. This is the preferred configuration for a GeViScope that uses IP dome devices.

b) two network cards

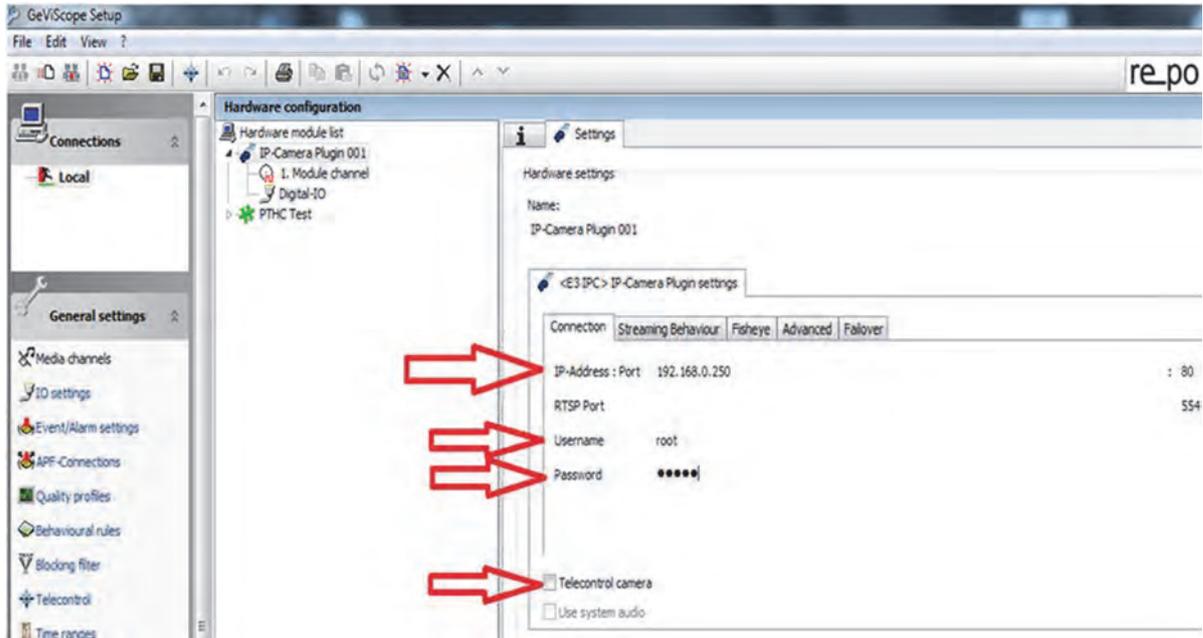
As an alternative to a) a second network card can be installed in the GeViScope. This makes a dual operation of DHCP and static IP possible. Communication with the IP dome devices is carried out over the second network card that is configured with a static IP address as in a).

c) DHCP Modus

A GeViScope that runs in DHCP mode must be assigned, by the DHCP server, either a static IP address or an IP address from the same IP subnet as the IP dome devices.



Attention: A loss of the connection to the DHCP server can cause the connection loss to the IP dome devices! This operating mode should only be used if a continuous connection to the DHCP server is ensured!



Please insert the username “**root**” and password “**admin**”.

Activate the **Telecontrol camera** button, if you want to integrate an IP camera with motorized lens (Zoom and focus remote controlled) or of type EHC.

This activation configures automatically all needed parameters in the Telecontrol menu.

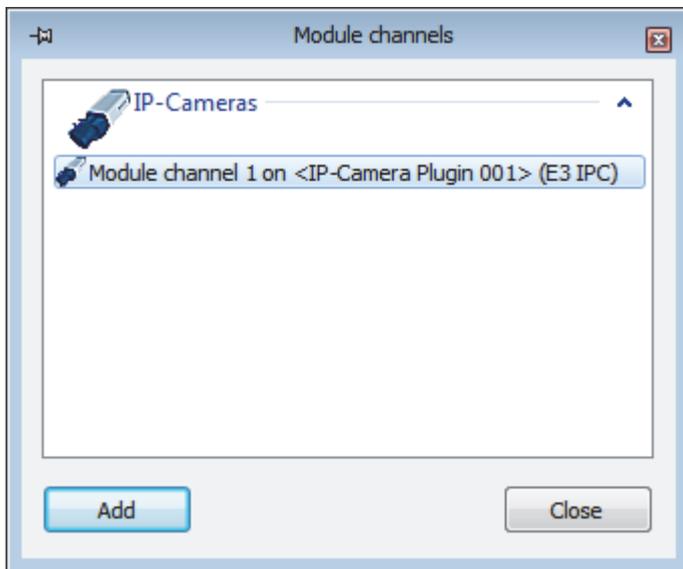
When you have checked all the settings yet again, click the  icon to send the settings to the server.

Adding and configuring media channels

On the General settings menu, click Media channels in order to initialize the media settings. The media channels of the basic unit are displayed.

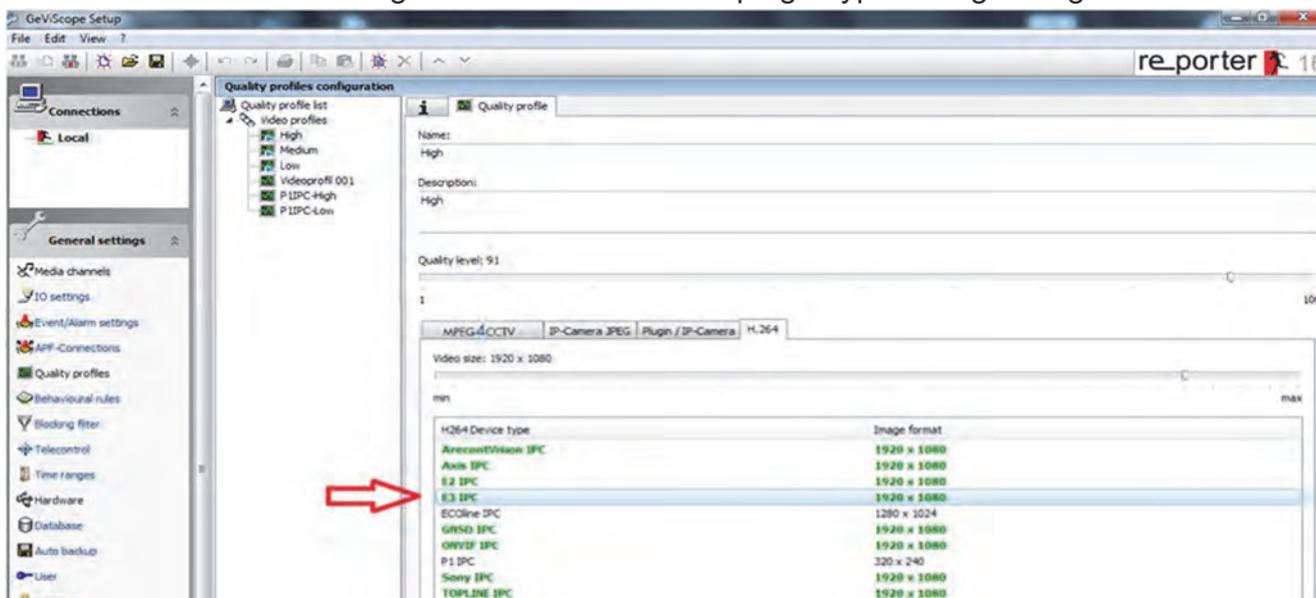
The context menu is opened by clicking the „Add“ button. 

Please select the channels that you would like to add from the list that appears.



Confirm the input by clicking **Add**.

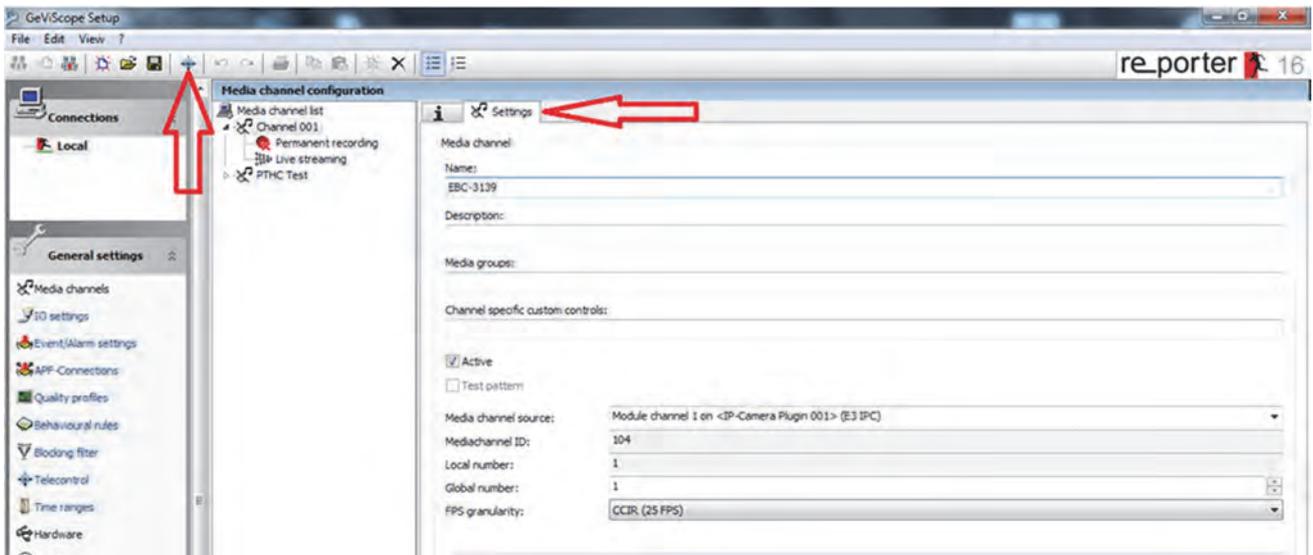
The compression format is automatically set to H.264.
You only should control the image quality in the menu Quality profile. Move the slider till the image format of the chosen plugin type changes to green.



When you have checked all the settings yet again, click the  icon to send the settings to the server.

Please click on tab **Media channels** folder **Settings** **Telecontrol** button to check the correct Telecontrol functions with joystick and sliders.

This function is only available for cameras, which have a motorized lens (Zoom and focus remote controlled).



6.2 Commissioning of IP Cameras in G-Set

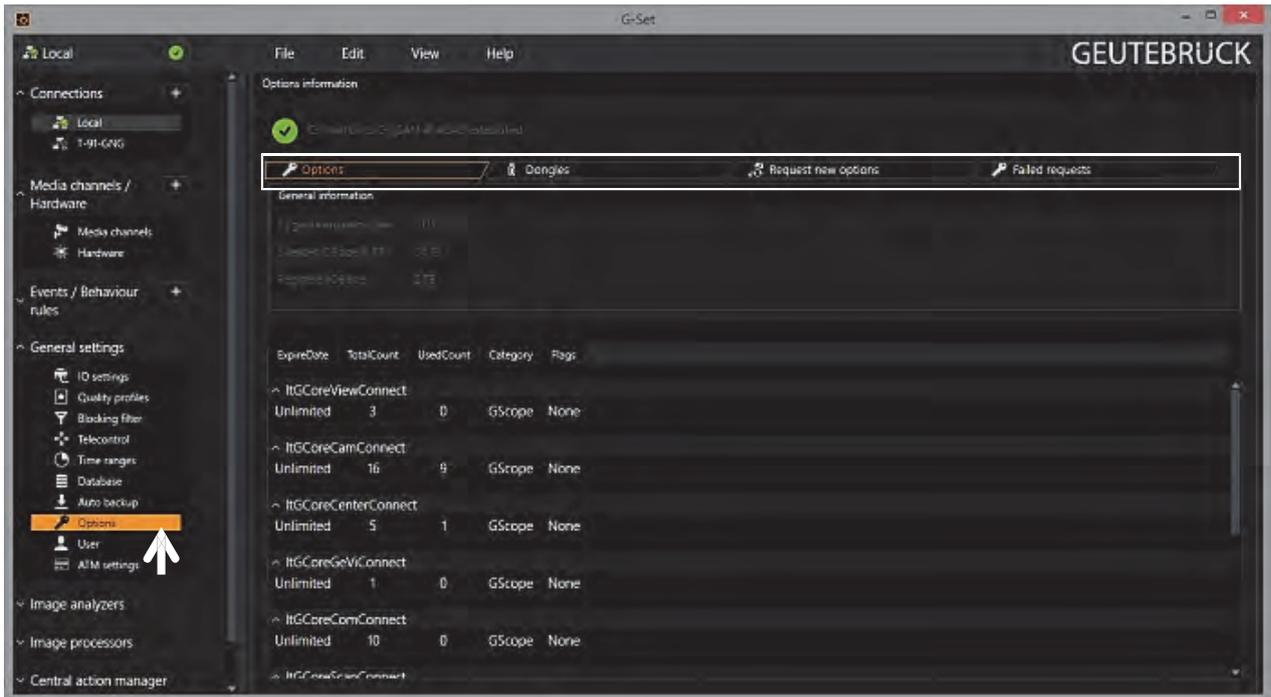


NOTE: For correct installation of IP cameras one **Option G-Core/CamConnect** must be available for each camera.

Available options are shown in G-Set at *General settings - Options*.

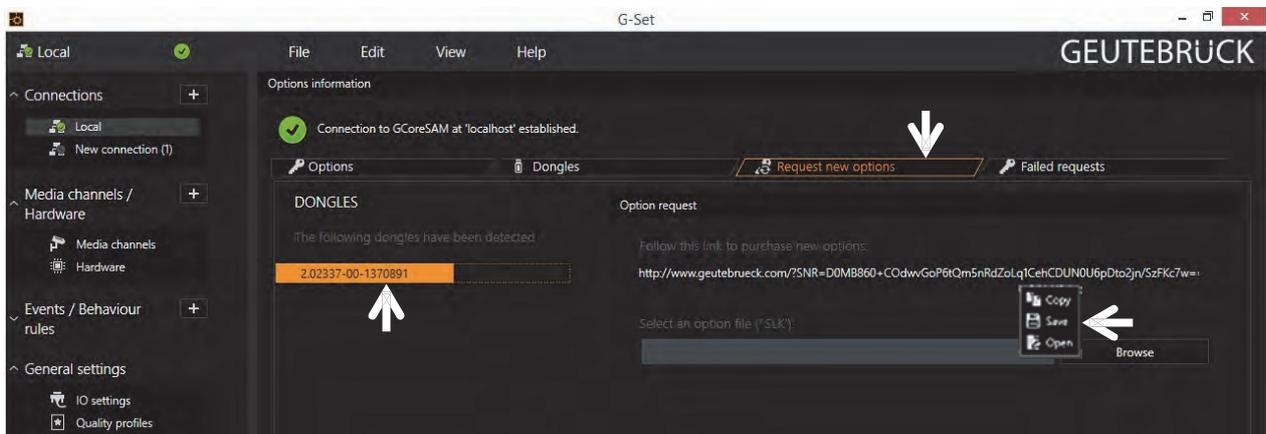
Required options can be ordered using *General settings - Options* in G-Set.

After clicking on *Options*, the options dialog opens with the first tab, which shows an overview of the available options.



The dialog shows the four tabs *Options*, *Dongles*, *Request new options* and *Failed requests*.

Request new options



New options can be requested using this dialog. When you click the dongle that will be assigned the new options, an URL appears in the field *Follow this link to purchase new options*.

Right clicking this URL opens a menu in which the URL can be copied, saved or opened in the default browser.

After passing the URL to a browser, follow the instructions on the GEUTEBRÜCK website.

Adding IP Cameras

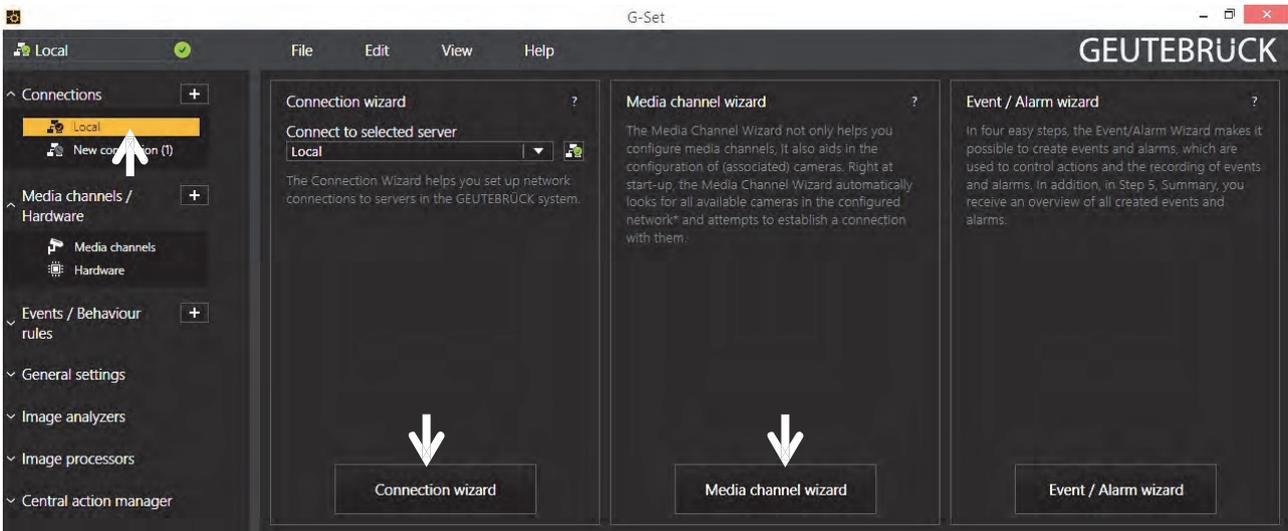


Please double click at desktop on the G-Set icon to open the G-Set configuration menu.

Step 1: Connection to a server

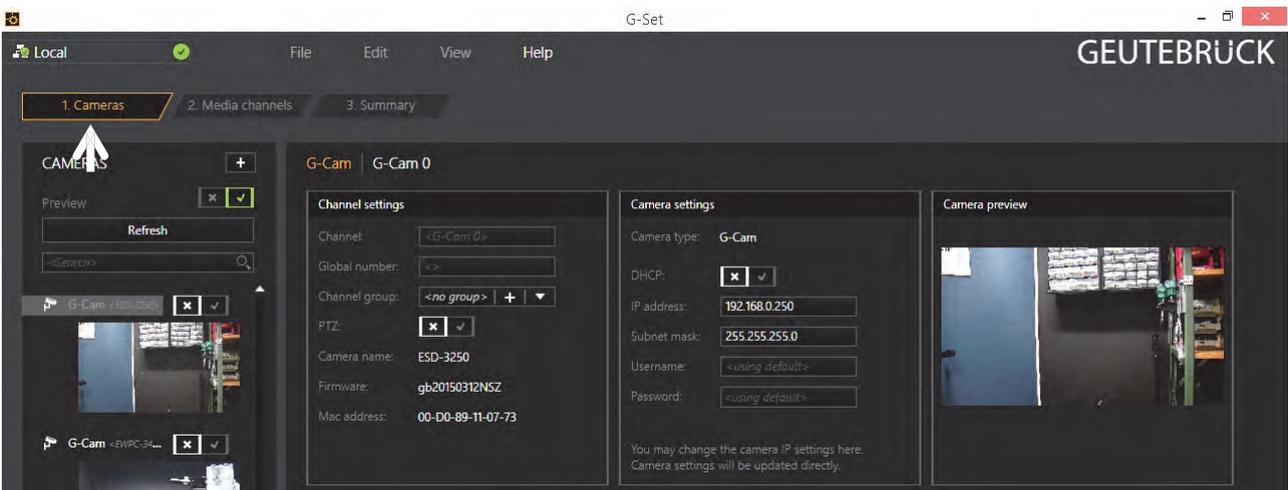
To connect G-Core with a (local or remote) server,

- Double-click on a connection available under *Connections* in the selection menu or
- In the Connection wizard dialog select a server from the list and click on the icon.
- By clicking *Connection wizard*, you can also configure new server connections.



Step 2: Activation and configuration of Media channels.

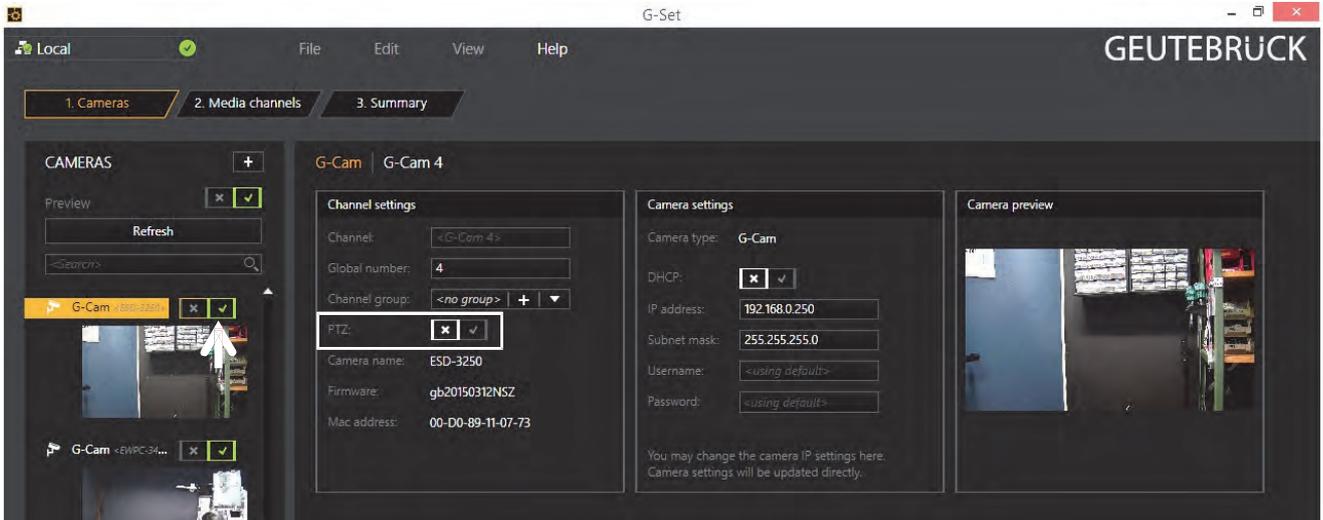
Left mouse click at *Media channel wizard* and click on tab *Cameras* opens the following window:



The Media Channel Wizard automatically searches for existing network cameras and displays them in the first column.

Cameras for which access rights are available are also displayed with a small camera image.

You can now select the desired camera by clicking the tick box (changes to green) and edit the general information and the camera-specific data.



 **NOTE:** If you want to control a PTZ camera, the **tick box PTZ** in the menu *Channel Settings* **must** be activated.

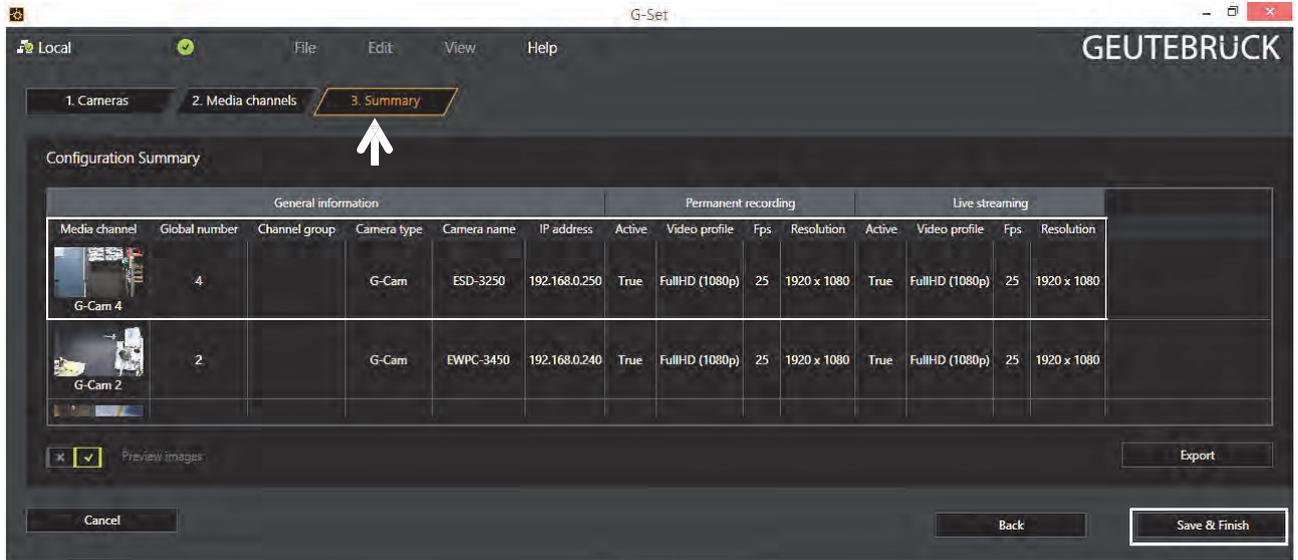
Left click on the tab *Media channels* opens the configuration window.
At left column (camera tree) please choose the desired camera.



In the camera menus you can make the desired settings for *Permanent Recording* and *Live Stream*.

Step 3: Summary (check settings, confirm and transfer settings to the server).

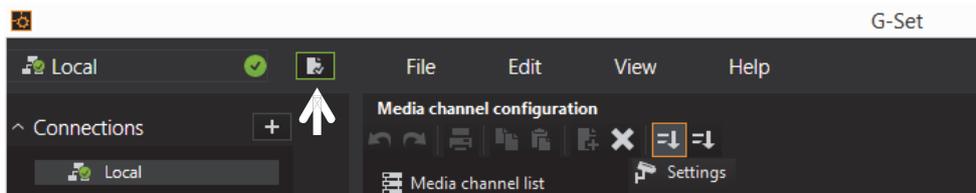
Mouse click on tab *Summary* provides you with an overview of all the settings that have been defined for your cameras.



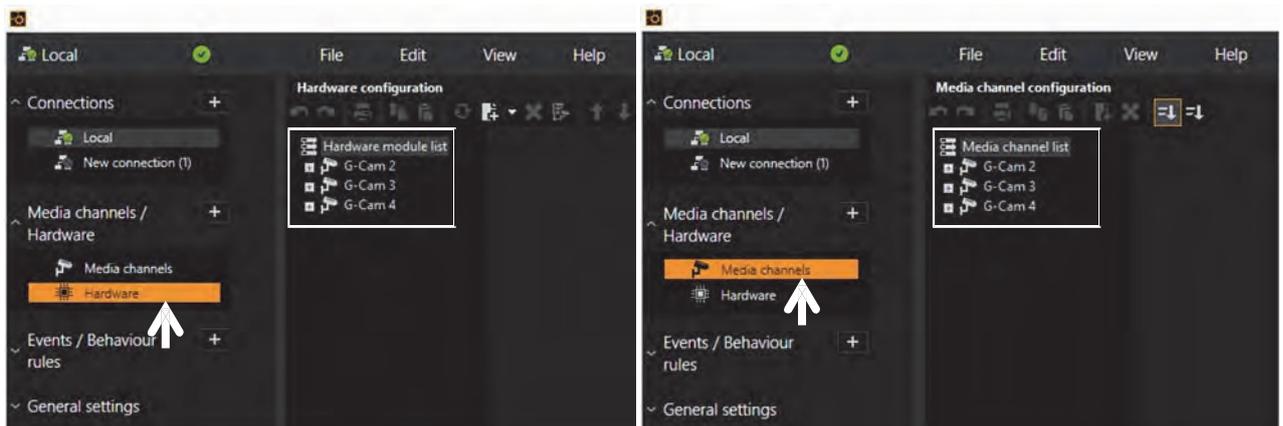
Please confirm your settings by clicking the button *Save & Finish*.

IMPORTANT: For settings to take effect, they **must** be sent to the server by clicking the icon .

You can find the *transfer button*  on the *command bar* of G-Set.



Finally, with click at *Hardware* and *Media Channels*, you can check whether the camera is present in the network and the media channels are configured correctly



7. Delete the existing DC Viewer

For users who have installed Viewer in the PC previously, please remove the existing Viewer before accessing the IP camera.

Deleting the Viewer

Activate the <Control Panel>, and then double click on <Add or Remove Programs>. In the <Currently installed programs> list, select <Viewer> and click on <Remove> to uninstall the existing Viewer.

Deleting Temporary Internet Files

To improve browser performance, it is suggested to clean up all the files in the <Temporary Internet Files>. The procedure is as follows.

Step 1: In the web browser, click on the <Tools> tab on the menu bar and select <Internet Options>.

Step 2: Click on the <Delete> button under <Browsing history> section. Then tick the box beside the <Temporary Internet Files>.

Step 3: Click on <Delete> to start deleting the files.

7.1 Setup Internet Security

If ActiveX control installation is blocked, please either set Internet security level to default or change ActiveX controls and plug-ins settings.

Internet Security Level: Default

Step 1: Start the Internet Explorer (IE).

Step 2: Click on the <Tools> tab on the menu bar and select <Internet Options>.

Step 3: Click on the <Security> tab, and select <Internet> zone.

Step 4: Down the page, click on the <Default Level> button, and click on <OK> to confirm the setting. Close the browser window, and restart a new one later to access the IP camera.

ActiveX Controls and Plug-ins Settings

Step 1: Repeat **Step 1 to Step 3** of the previous section above.

Step 2: Down the page, click on the <Custom Level> button to change ActiveX controls and plug-ins settings. The Security Settings window will pop up.

Step 3: Under <ActiveX controls and plug-ins>, set **ALL** items (as listed below) to <Enable> or <Prompt>. Please note that the items vary by IE version.

ActiveX controls and plug-ins settings:

1. Binary and script behaviors.
2. Download signed ActiveX controls.
3. Download unsigned ActiveX controls.
4. Allow previously unused ActiveX controls to run without prompt.
5. Allow Scriptlets.
6. Automatic prompting for ActiveX controls.
7. Initialize and script ActiveX controls not marked as safe for scripting.
8. Run ActiveX controls and plug-ins.
9. Only allow approved domains to use ActiveX without prompt.
10. Script ActiveX controls marked safe for scripting*.
11. Display video and animation on a webpage that does not use external media player.

- Step 4:** Click on <OK> to accept the settings. Then there will be a prompt window for confirming the setting changes, click <Yes(Y)> and close the Security Settings window.
- Step 5:** Click on <OK> to close the Internet Options screen.
- Step 6:** Close the browser window, and restart a new one later to access the IP camera.

Appendix A: Technical Data

Image sensor (Chip)	1/3" Sony Progressive CMOS
Picture format	16:9
Scanning system	Progressive scan
Mega pixel	4 MP (2688 x 1520)
Minimum sensitivity	0.0 Lux (color), 0.01 Lux (B/W)
Day/Night function	Auto / LEDs on / LEDs off / smart / light sensor
IR-LEDs and sensor	IR-LEDs (850 nm; 5 ea)
IR-LED visible range	max. 15 m
Wide Dynamic Range	Shutter WDR < 120 dB
White balance	Manual / One Push / ATW / AWB
Exposure	Automatic / Manual
Shutter	1 - 1/10,000 s
Back Light Compensation	On/Off (only with TV system w(o WDR)
Digitale Noise Reduction	2D/3D (low/middle/high/off; with motion compensation)
Text overlay	Yes
Interface	RJ-45 (10/100 Mbps)
OSD-Menu	English/German/French/Italian/Korean/Simplified Chinese/Traditional Chinese/Russian/Spanish/Japanese/Portuguese
Mirror-Function	Normal/Flip/Mirror H/180° Rotation/90° cw/90° ccw
Compression	H.264, MJPEG
Picture rate (TV system w/o WDR; ISO+ off); Single Stream	Single Stream (H.264): 2688 x 1512 to 960 x 544, frame rates from 15 fps up to 60 fps max.; in sum 8 resolutions in 16:9 format each; Single Stream (MJPG): 1080p to 960 x 544, frame rates from 25 up to 60 fps max.; 5 resolutions in 16:9 format each
Picture rate (TV system w/o WDR; ISO+ off); Dual Stream	Dual Stream (H.264+H.264): Stream 1 with 2688 x 1512 to 960 x 544, frame rates from 15 fps up to 60 fps max.; in sum 7 resolutions in 16:9 format each; Stream 2 (H.264): 720p to 384 x 216, framerates 15 fps max. each; in sum 5 resolutions in 16:9 format each
Stream parameter influences caused by	TV system with WDR: frame rate 30 fps max.; ISO + active: resolution and frame rates can be reduced; DSS active: limitation of streams through setting in E3 plugin
Video Streaming	Quad Stream, configurable
Protocols	HTTP, HTTPS (TLS 1.2 Metadata only), TCP, FTP, RTSP, RTP, UDP, SMTP, SNMP, ICMP, IGMP, DHCP, UPnP, PPPoE, UPnP, QoS, ONVIF, IPv4/v6, IEEE802.1X (SHA-2)
Access levels	Multiple user access levels with password protection

Network security	IP filtering
Motion detection	Yes; 4 sets with 10 fields each
Browser	Internet Explorer 7.0 and higher, Firefox, Safari
Privacy masking	5 adjustable masking zones (8 colors)
Picture Memory	μSD slot 64 GB max.
Lens (manual adjustment)	f = 2.7 mm to 12 mm (variable)
Digital zoom	yes; x2 - x10
Auto Focus	Yes; One Touch Function, Zoom Trigger, manual
F-Stop	F1.6
Angle of view	f = Wide/ 99,2° (H) f = Tele / 31,2° (H)
Operating temperature	- 30 °C to + 50 °C
start-up temperature	- 10 °C to + 50 °C (no heater!)
Humidity in operation	10 - 90 % rel. humidity (non condensing)
Voltage supply	PoE (IEEE 802.3af)
Power consumption system	2.9 W
Power consumption of other modules	IR LEDs + 1.2 W; SD card + 0.6 W
IP class	IP 66
Dimensions in mm (diameter x length)	86 x 151
Weight	Approx. 330 g
Certifications	FCC, CE, RoHS
Licensing	unit dependent (Gsc or G-Core)
Brand	GEUTEBRUCK
Order No.	5.02601

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