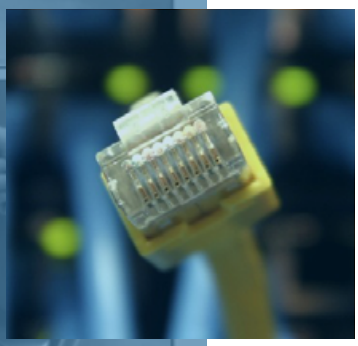
GEUTEBRÜCK
Competence in Video Security



G-Cam/EFD-3245

Full HD Ultra-WDR Dome IP-Camera

Installation

Table of Contents

1. Overview

The Full HD Ultra-WDR Compact Dome IP Camera is a compact camera with an easy setup design. PoE+ is supported to reduce complicated cabling without loosing performance.

With more computing power, the IP camera could provide more flexibility for users and system managers. The camera also supports Shutter WDR function, which can provide better image quality under extreme light contrast scenario or light changing environments.

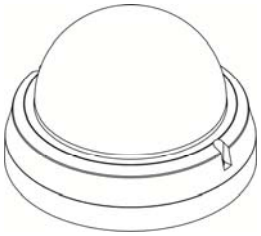
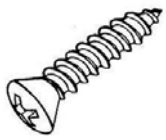
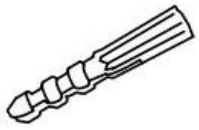
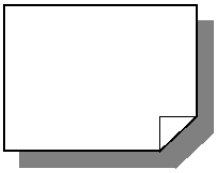
1.1 Features

- Sony Progressive Scan CMOS Sensor
- 2M Resolution
- Dual Streams
- Multi-language Support
- Tampering Alarm
- Ultra Dynamic Range
- Motion Detection
- Privacy Masking
- 3D Noise Reduction / 2D Noise Reduction
- Network Failure Detection
- Day/Night (ICR)
- IR LED Module (working distance up to 25 m)*
- Digital Image Stabilization (DIS)
- BNC Analog Output
- Weatherproof (IP66 International)
- PoE plus support (PoE+)
- microSD Support
- ONVIF Support

(*) Optional

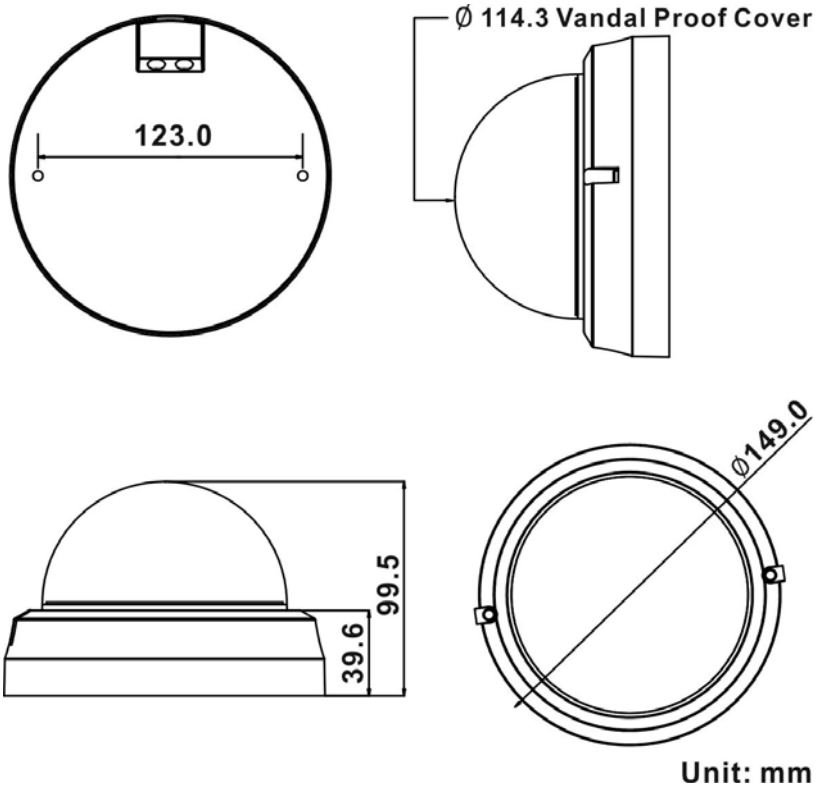
1.2 Package Contents

Please check the package contains the following items listed below.

<table>
<tr><td colspan="2"> 
Full HD Multiple Streams Ultra-WDR
Compact Dome IP Camera</td></tr>
<tr><td> 
Rubber Washers
(x2)</td><td> 
Security Torx</td></tr>
<tr><td> 
Self Tapping Screws
(x2)</td><td> 
Plastic Screw Anchors
(x2)</td></tr>
<tr><td> 
Quick Guide</td><td> 
CD
(bundled software and documentation)</td></tr>
</table>

1.3 Dimensions

The dimensions of the camera are shown below.

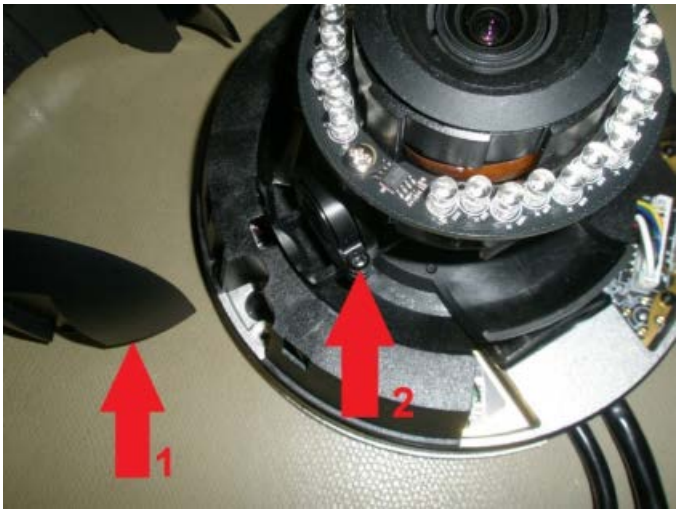


1.4 Loosen of the transport locking screw

IMPORTANT!

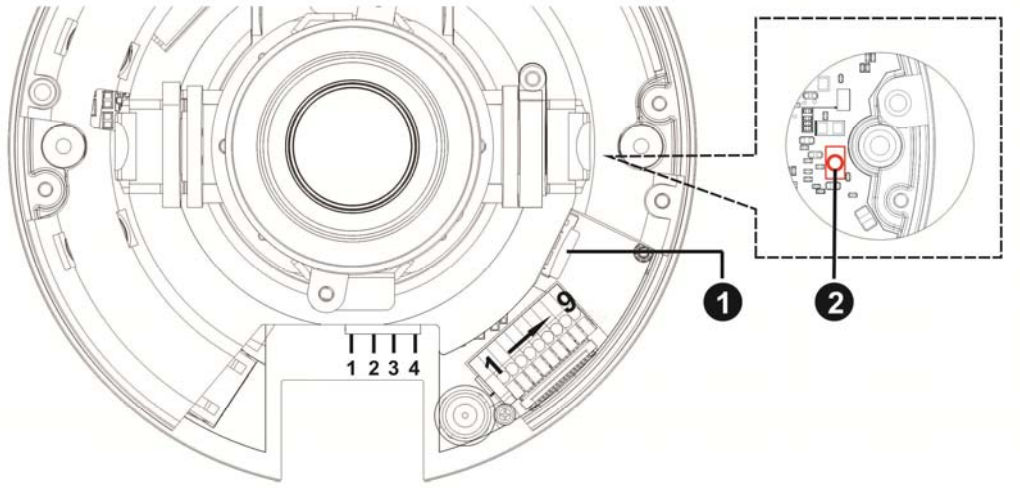
BEFORE setting the picture section, please **loosen the transport locking screw** (2).

Remove the transparent dome cover as well as the inner cover (1). Loosen the recessed head screw (2), don`t remove it.
Than try to tilt the camera module.



1.5 Default Button and micro SD card slot

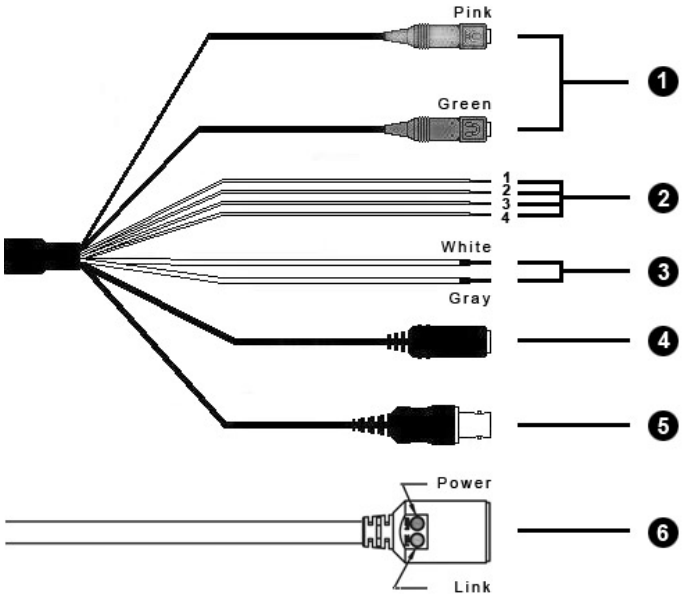
The diagram below shows the default button and micro SD card slot.



No.	Connector	Pin	Definition	Remarks
1	**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.	
2	**Default Button**	-	Press the button with a proper tool for at least 20 seconds to restore the system.	

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.

1.6 Function Cables



No.	Connector		Pin	Definition	Remarks
1	**Audio I/O**		Pink	Audio In	Two-way audio transmission
			Green	Audio Out	
2	**Alarm (4-Pin Terminal Block)**		1	Alarm In –	Blue
			2	Alarm In +	Green
			3	Alarm Out –	Yellow
			4	Alarm Out +	Orange
3	**Power**	**AC 24V**	White	AC 24V 1	Power connection
			Gray	AC 24V 2	
4	**Power DC Jack**		-	DC 12V	Power connection
5	**BNC**		-	For analog video output	
6	**RJ-45**		-	For network and PoE connection	
-	**Default Button**		-	Please refer to Default Button in the table under section 1.4.	

2. Camera Cabling

Before users connect cables, make sure that all cables and the power adaptor are placed in dry and well-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 refer to the following sections for camera connection.

2.1 Power Connection

For power connection, please refer to section Function Cables Definition. Alternatively, users can power the camera by PoE if a Power Sourcing Equipment (PSE) switch is available. Please refer to the section below for Ethernet cable connection.

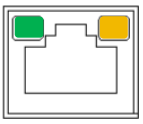
NOTE: If PoE is used, make sure PSE is in used in the network.

2.2 Ethernet Cable Connection

To have 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 the network switch or PC.

NOTE: In some cases, Ethernet crossover cable might be needed when connecting IP camera directly to PC.

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.

2.3 Alarm I/O Connection

Connect alarm devices to the blue, green, yellow and orange wires of the All-in-One cable. Refer to section Function Cables for pin definitions.

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
Personal Computer	1. Intel® Pentium® M, 2.16 GHz or Intel® Core™2 Duo, 2.0 GHz 2. 2 GB RAM or more
Operating System	Windows VISTA / Windows XP / Windows 7
Web Browser	Microsoft Internet Explorer 6.0 or later Firefox Chrome 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

4. Access Camera

For initial access to the IP camera, users can search the camera through the installer program DeviceSearch.exe, which can be found in “DeviceSearch” 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.

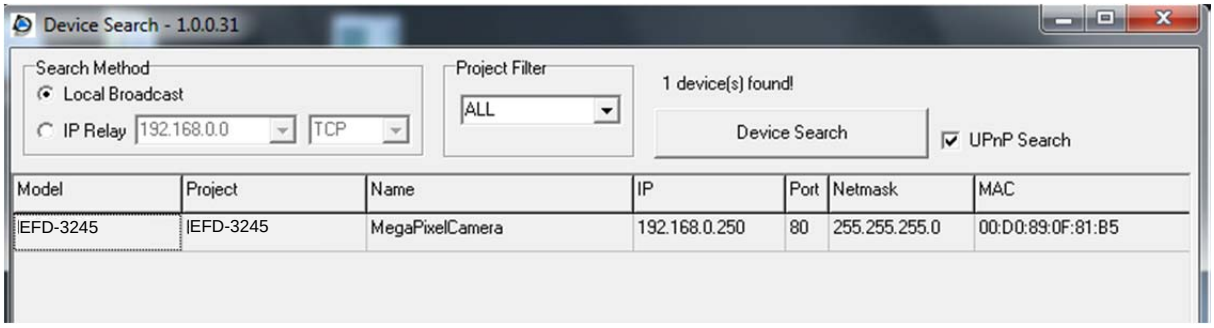
Step 3: Find the camera in the list by its IP address and click on it. The default IP address of the camera is: **192.168.0.250**.

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 a 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 Full HD Ultra-WDR IP Camera Menu Tree in the supplied CD for further details.

Installing DC Viewer Software Online

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

If the web browser doesn't allow DC Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (refer to Appendix C: 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.

The download procedure of DC Viewer software is specified as follows.

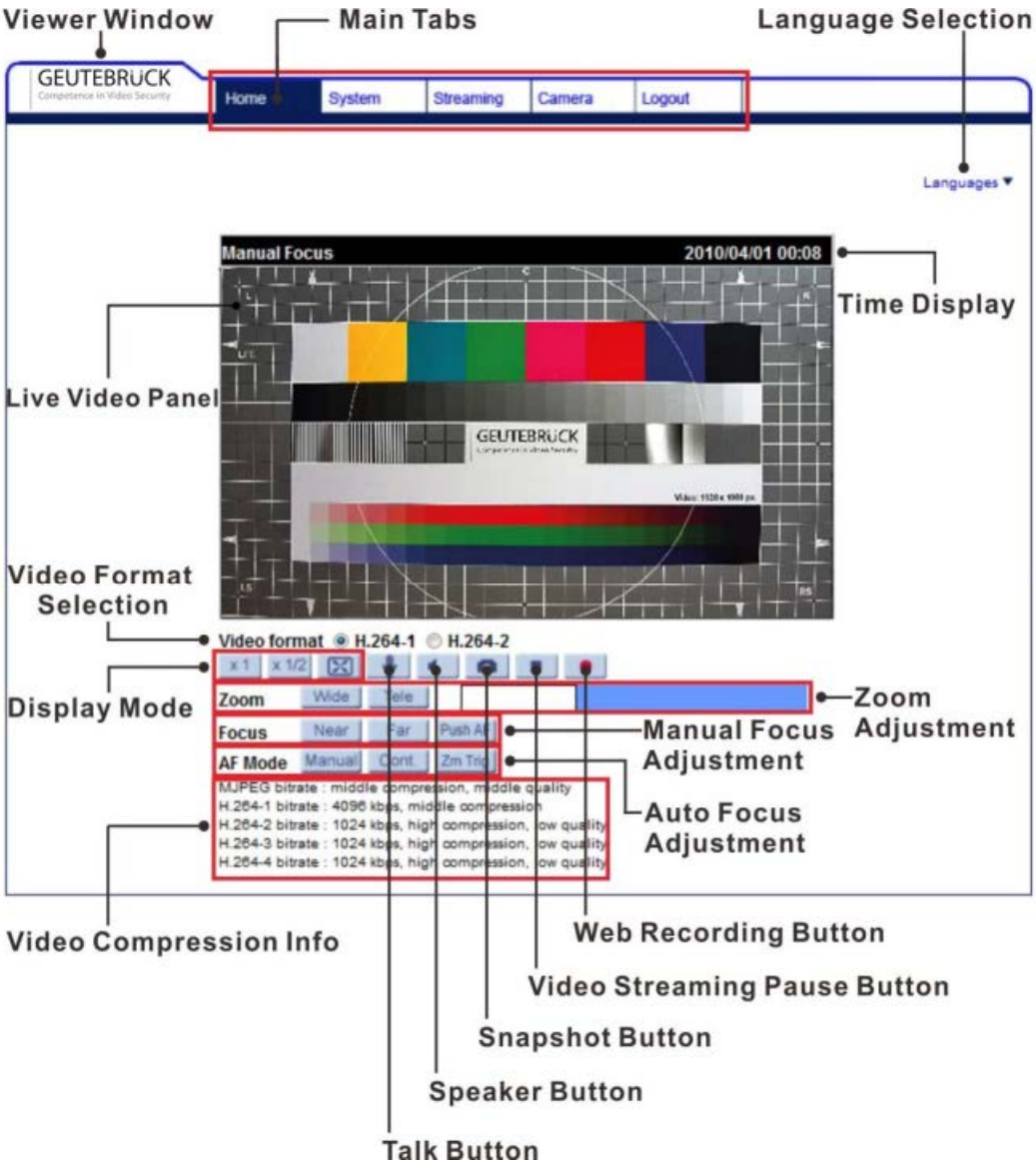
Step 1: In the DC Viewer installation window, click on <Next> to start installation.

Step 2: The status bar will 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 DC Viewer installation page.

Once the DC Viewer is successfully installed, the Home page of the IP camera will be shown as the figure below.

3x AF Lens Models



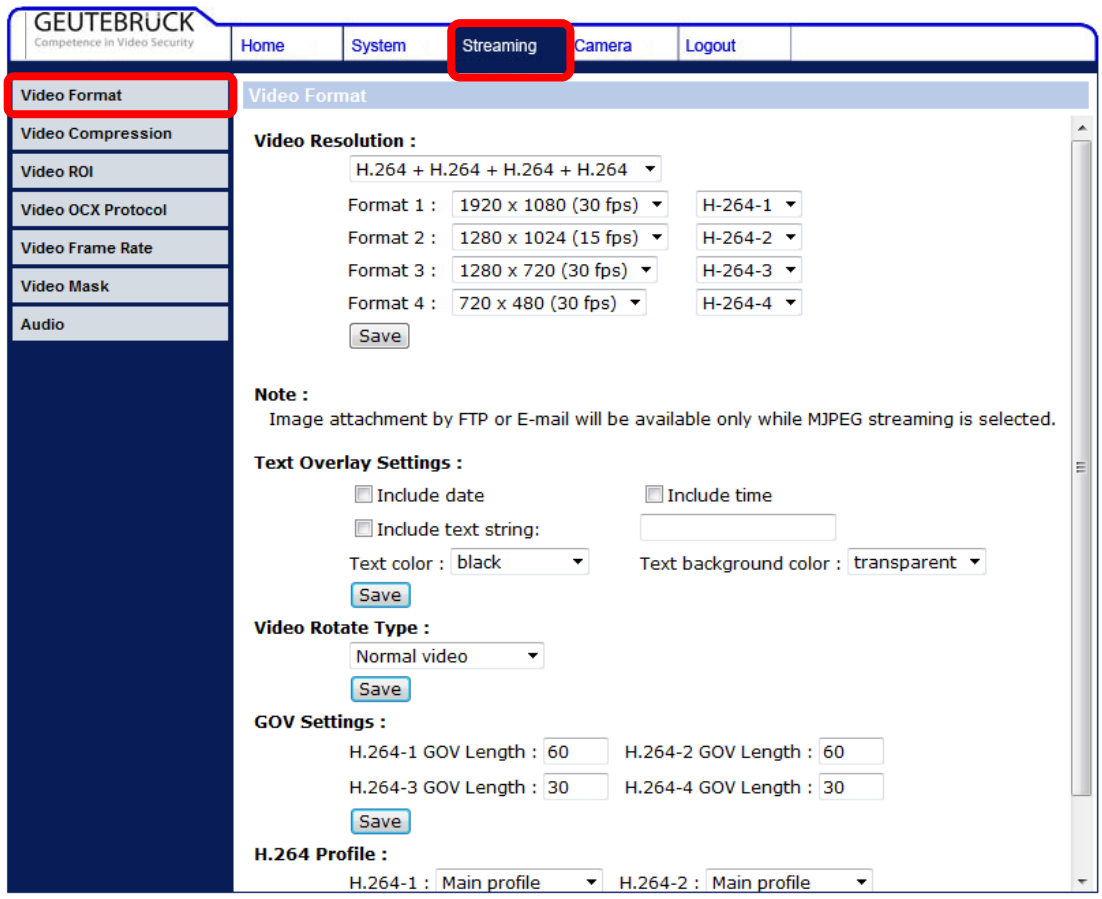
Zoom and Focus Adjustment (3x AF Lens Models)

The live image will be displayed on the Home page when the camera is successfully accessed. If zoom or focus is not at the desired position, please use the function buttons on the Home page for adjustment. Refer to the Full HD Ultra-WDR IP Camera Menu Tree in the supplied CD for more details about the function buttons.

5. Setup Video Resolution (see 1.1 Features)

Users can setup Video Resolution on Video Format page of the user-friendly browser-based configuration interface.

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



The default values of video resolution are as below.

2M	H.264- 1920 x 1080 (15 fps) + H.264- 1280 x 720 (30 fps)

NOTE: For more details about the combinations of video resolution, please refer to the Full HD Ultra-WDR IP Camera Menu Tree in the supplied CD.

6. Commissioning of the IP Camera 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.

Attention: To install the IP cameras correctly, the GeViScope/re_porter Software must be **version 7.5.960.xx** or higher.
Older Software must be updated. Please download at:
www.geutebrueck.com

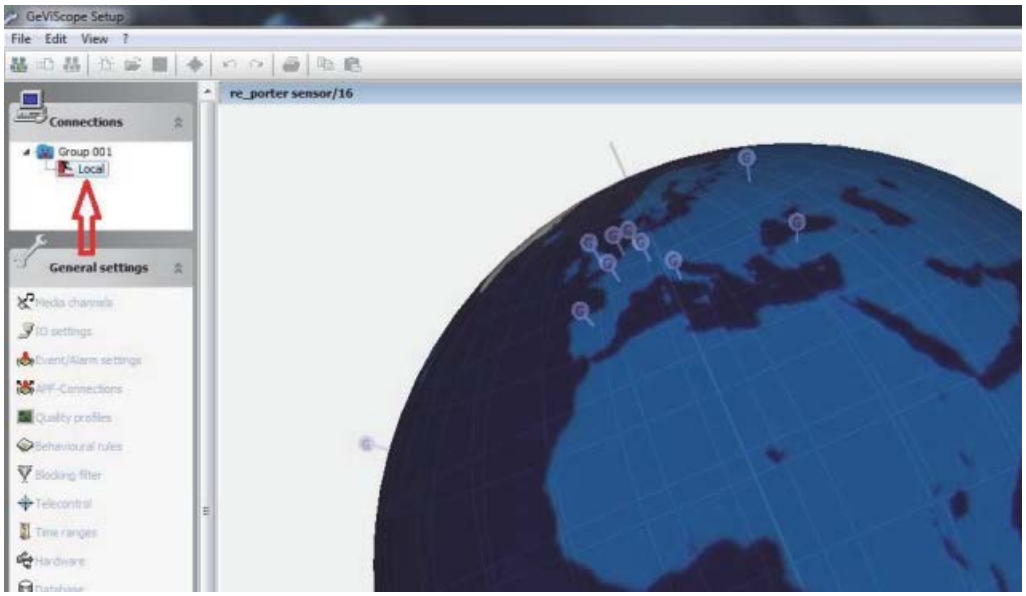
Adding of the E3 IP-cameras

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

.

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

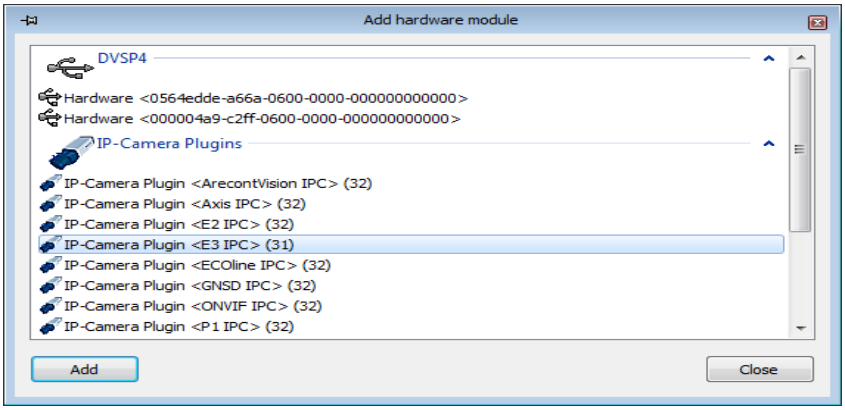
Step 2: Click the left mouse button to open the General Settings menu.



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-adress.

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) 2 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

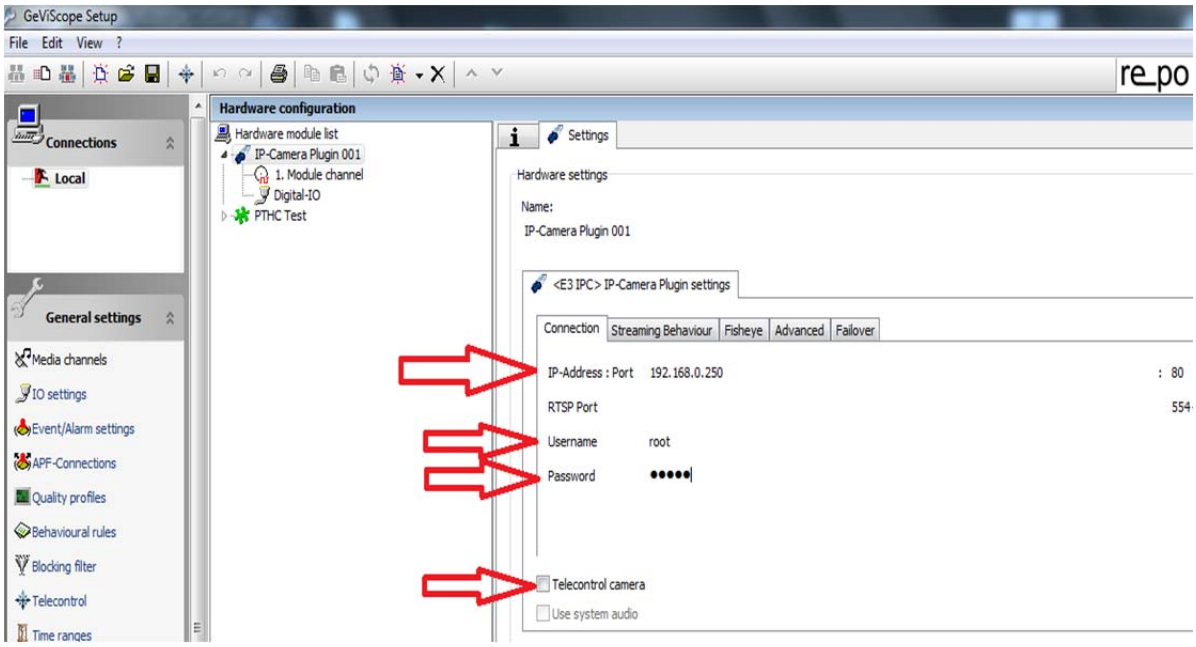
A GeViScope that runs in DHCP mode must be assigned, by the DHCP server, either a static IP address or an IP address from the same IP subnet as the IP dome devices.

To power up the Camera, please connect the Ethernet cable to the Camera's Ethernet Port and plug the other end of the cable into an IEEE 802.3af Power over Ethernet (PoE) Switch for indoor dome, PoE+ for outdoor dome.

If there is a need to operate the Heater you can also use AC 24V for

Outdoor Models. Please plug the AC 24V cable into the Camera's Power Connector to power up the Camera instead.

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.

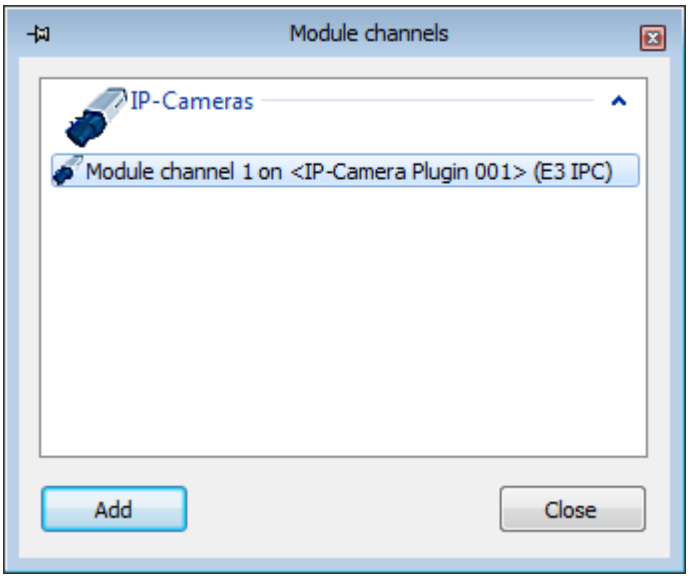
When you have checked all the settings yet again, click the  icon to send the settings to the server.

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.

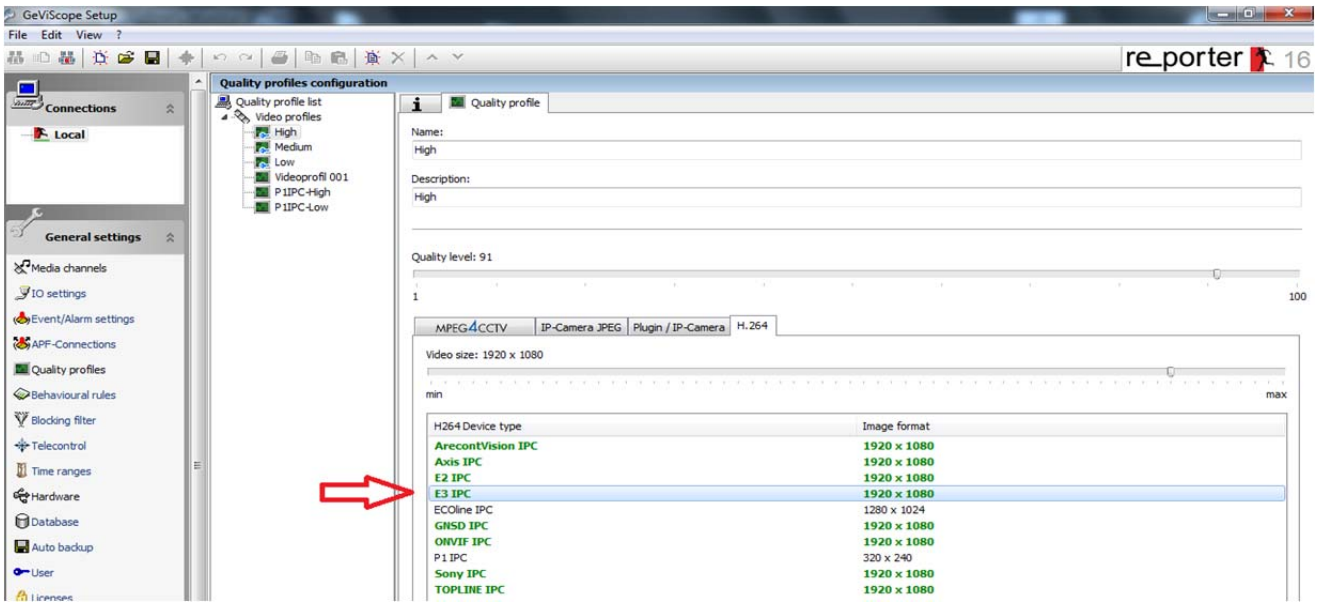
The context menu is opened by clicking the „Add" button.

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



Confirm the input by clicking **Add**.

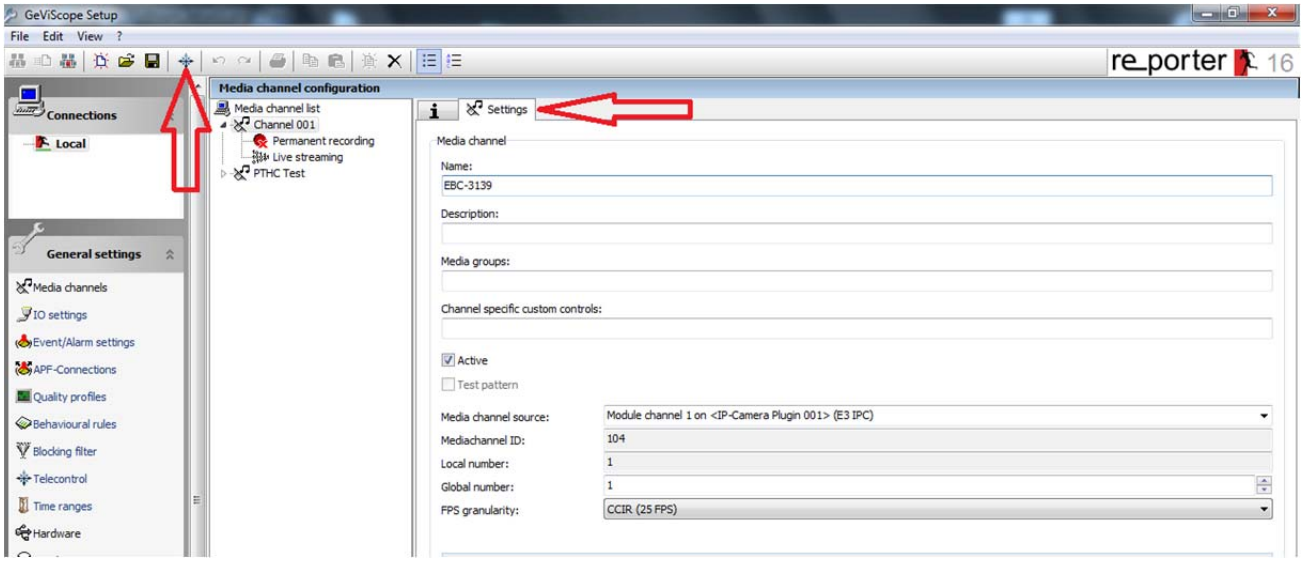
The compression format is automatically set to H.264.
You only should control the image quality in the menu Quality profile. Move the slider till the image format of the chosen plugin type changes to green.

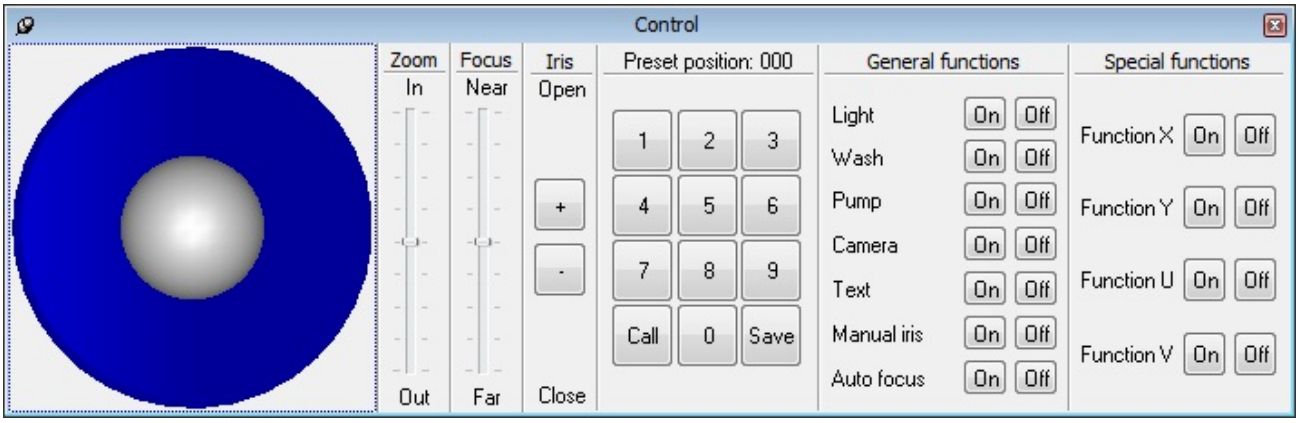


When you have checked all the settings yet again, click the  icon to send the settings to the server.

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) or are of type EHC.





NOTE: The joystick operates only with IP cameras of type EHC (Motion within the quad display).

7. Configuration Files Export / Import

To export / import configuration files, users can access the Maintenance page on the user-friendly browser-based configuration interface.

Maintenance setting can be found under this path: **System > Maintenance**.

Users can export configuration files to a specified location and retrieve data by uploading an existing configuration file to the camera. It is especially convenient to make multiple cameras having the same configuration.

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 a configuration file to the camera, click on <Browse> to select the configuration file, and then click on the <Upload> button for uploading.

Appendix A: Technical Specifications

Image sensor (Chip)	1/2,8“ Sony Progressive CMOS
Picture format	16:9
Video output (permanent)	Composite video: 1 Vpp, 75 Ohm (BNC)
Scanning system	Progressive scan
Mega pixel	2 MP (Full HD)
Minimum sensitivity: Color B/W	 0,05 Lux (F1,2; Shutter 1/30; 50 IRE) 0,01 Lux (F1,2; Shutter 1/30; 30 IRE) 0,01 Lux (F1,2; Shutter 1/30; 50 IRE) 0,001 Lux (F1,2; Shutter 1/30; 30 IRE)
Day/Night function	Removable IR cut filter
Wide Dynamic Range	2 Shutter Ultra WDR 96 dB
White balance	Automatic / Manual ATW / Indoor / Outdoor
Exposure	Automatic / Manual
Shutter	1 - 1/10,000 s
Slow Shutter	2 Shutter WDR
Back Light Compensation	On/Off
Digitale Noise Reduction	2D/3D (low/middle/high/off)
Text overlay	Yes
Interface	Browser interface
Color / B/W switching	Auto/manual
B/W mode	Yes
Mirror-Function	Flip, Mirror H, 180° Rotation
Portrait/Corridor View	Yes (On/Off); 90° ccw only
Compression	H.264, MJPEG
Picture rate (full resolution)	MJPEG: 50 fps; H.264: 50 fps (not at the same time!)
Resolutions	QCIF up to Full HD
Video Streaming	Dual Stream, configurable
Audio	1x In, 1x Out/G.711, G.726
ONVIF compatible	Yes
Motion detection	Yes
Alarm In/Output	1x In, 1x Out
Browser	Internet Explorer 6.0 and higher, Chrome, Firefox, Safari
Privacy masking	5 adjustable masking zones (8 colors)
Picture Memory	SD slot
Lens	f = 3.0 mm to 9.0 mm (variable)
Auto Focus	Yes (One-Touch-Function)
Angle of view	f = 3.0 mm / 92.3° (H) x 73.3° (V) f = 9.0 mm / 30.9° (H) x 24.4° (V)
Operating temperature	- 40 °C to + 50 °C (heater on)
Humidity in operation	10 - 90 % rel. humidity (non condensing)
Voltage supply	12 VDC/24 VAC or PoE (indoor), PoE + (outdoor)
Power consumption	7.0 W (camera) + 10.0 W (heater)
IP class	IP 66
Connectors	All-in-one-cable: RJ-45 for 10/100 BASE-T Ethernet; Alarm I/O; Audio In/Out; connector for external power supply; BNC connector for permanent analogue video output
Dimensions in mm (diameter x length)	149 x 99.5
Weight	Approx. 650 g
Interface standard	ONVIF
Certifications	FCC, CE, RoHS
Licensing	Licence/GSC/IP-Cam (8.31150) required
Optional accessories	G-Cam/EBFC-004 (5.04730) False ceiling kit G-Cam/EBDA-001 (5.04731) Bracket to dome adapter G-Cam/EBWM-003 (5.04732) Metal wall mount G-Cam/EBWM-004 (5.04733) Plastic wall mount G-Cam/EPMA-003 (5.04735) Pole mount adapter
Brand	GEUTEBRÜCK
Order No.	**5.04703**

Appendix B: Delete the Existing DC Viewer

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

Deleting the DC Viewer

In the Windows <Start Menu>, activate <Control Panel>, and then double click on <Add or Remove Programs>. In the <Currently installed programs> list, select <DCViewer> and click on the button <Remove> to uninstall the existing DC 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: Click on the <Tools> tab on the menu bar and select <Internet Options>.

Step 2: Click on the <Delete> button under the <Browsing History> section.

Step 3: In the appeared window, tick the box beside the <Temporary Internet Files> and click on <Delete> to start deleting the files.

Appendix C: 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-in 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-in 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. A prompt window will appear for confirming the setting changes, click <Yes(Y)> to close the Security Setting 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.

G-Cam/EFD-3245_IA_EN 11.09.2014

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