

GEUTEBRUCK Excellence in Video Security

G-Code/EEN-2010

1-Channel Analog Video Encoder

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.

Notice

This manual provides the installation information for the Encoder. To work with the Encoder, any installer or technician must have the following minimum gualifications:

- 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

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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.

Precaution





This symbol is intended to alert the user the presence of un-insulated "dangerous voltage" within the product's enclosure, which may be sufficient magnitude to constitute an electric shock risk to persons.



This symbol is intended to alert the user the presence of important operating and maintenance (servicing) instructions within the guide manual

- Please read this manual carefully before installing the unit.
- Unauthorized disassembly may cause equipment failure or damage to the unit.
- Please do not place the unit on a place exposed to an excessive heat source.
- Do not operate the camera in environments beyond the specified temperature. Refer to "Environment Condition" on "APPENDIX (A): SPECIFICATIONS" in this manual.
- Before applying power to the camera, check the power source to ensure that it is within the specifications.
 Refer to "Electrical Characteristics" on "APPENDIX (A): SPECIFICATIONS"

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1. FEATURES

Streaming

- Dual streaming mode (such as different codec/resolution/bit rate, etc.)
- De-interlacing on DSP
- Burnt-in text supported
- Unicast/Multicast supported

Video/Audio

- Video compression: H.264 / MJPEG, 25/30 fps @ D1 (PAL / NTSC)
- Audio compression: G.711 (µLaw, aLaw) / PCM
- Analog video out for external monitors
- Video Motion Detection supported
- Two-way mono audio supported (listen only is supported by GEUTEBRUECK DVRs)

Network

- RTSP / HTTP protocol supported
- 10/100 Base-T Ethernet

Additional Features

- RS-485 supported (e. g. to remote control analogue PTZ cameras)
- SD memory card supported
- PoE supported

2. PACKAGE CONTENTS

Unpack carefully and handle the equipment with care. The packaging contains:

Encoder



Mounting brackets



Screws and anchor blocks



2.0 mm hex L-wrench



DC power adaptor



8 Pin terminal blocks



Quick Installation Guide





The above contents are subject to change without prior notice.

3. PART NAMES

3.1. Front Panel



① System Status LEDs

They indicate certain system information.

- Status: The LED turns on in orange when the encoder is powered on.
- Data: The LED turns on in green when the video signal comes in with a proper connection.

② Video Input BNC connector

As a video input connector, connect to the camera.

③ Video input/output Configuration Switch

This switch enables video input and output to be turned on or off. No video comes in or out with this switch off and only some test patterns will be displayed on the Webpage. You can change the video standard format of the device by moving the switch to NTSC side or PAL side as required. The device needs to be rebooted after moving the switch in order to apply the change.

④ SD memory card slot

Insert a SD memory card for local storage.

⑤ Loop out BNC connector

As a loop out connector, connect to a device such as a DVR or monitor.

3.2. Back Panel



6 LAN connector

Use the RJ45 LAN connector for 10/100 Base-T Ethernet.

⑦ DI/DO

The encoder supports two channels for each of DI and DO. Refer to the section **4.1. Connectors** for more specific information.

⑧ Audio IN/OUT (listen only is supported by GEUTEBRUECK DVRs)

The encoder has one channel mono audio input/output. As the output power for the audio is low, an amplifier speaker is needed.

9 RS-485

RS-485 terminal block is used for PTZ controls.

1 Reset

Reboot the device system or reset the device to its factory default settings. Refer to the section **7. Reboot** for more specific information.

1 Power connector

Connect the power adaptor for power supply. DC 12V 1A adaptor is needed.

4. CONNECTIONS

4.1. Connectors

Video connection

Connect the camera to the **Video input connectors** on the back panel using 75 ohm video coaxial cables with a BNC connector. Each video channel input among these connections can be looped to other equipment as monitor through **External Video output connector**.



Make sure to connect the analog video input before you turn on the encoder. Otherwise, the device must be rebooted to see the normal display if the camera is NTSC, because the encoder default setting is PAL without a video connection.

Audio connection (listen only is supported by GEUTEBRUECK DVRs)

Connect to the audio input device such as a Mic.



Sensor Input (D/I)

There are two sensor interface types – Voltage Type and Relay Type. The interface type can be controlled by the software. Before connecting sensors, check driving voltage and output signal type of the sensor. Since the connection is different according to sensor type, be careful to connect the sensor.



Input voltage range: 0 VDC minimum to 5 VDC maximum, Max 50 mA

Signal	Description
СОМ	Connect (-) cable of electronic power source for sensors to this port as shown in the circuit above.
D1~D2	Connect output of sensors for each port as shown in the circuit above.



Do not exceed the maximum input voltage or relay rate. Do not use voltage and relay type sensor together.

Alarm Output (D/O)

Only the relay type is supported. Relay Rating: Max 24 VDC 50 mA



Do not exceed the maximum relay rating.





RS-485

The RS-485 serial port consists of **TRX+** (RX+) and **TRX-** (RX-) like in the following image.



RS-485 Connection

5. CONFIGURATION

5.1. Set up network environment

The default IP address of the device is 192.168.XXX.XXX. Users can identify the IP address of the device from converting the MAC address's hexadecimal numbers, which is attached to the device. Be sure that the device and PC are on a same area network before running the installation.

IP address : **192.168.xxx.xxx** Subnet mask: **255.255.0.0**

General		General	
You can get IP settings assign this capability. Otherwise, you r the appropriate IP settings.	ed automatically if your network supports need to ask your network administrator for	You can get IP settings assign this capability. Otherwise, you the appropriate IP settings.	ed automatically if your network supports need to ask your network administrator for
O <u>O</u> btain an IP address auto	omatically	○ <u>□</u> btain an IP address automatically	
O Use the following IP address	200	OS Use the following IP addr	ess:
IP address:	10 . 10 . 110 . 179	IP address:	192 . 168 . 110 . 179
Sybnet mask:	255 . 255 . 255 . 0	S <u>u</u> bnet mask:	255.255.0 .0
Default gateway:		Default gateway:	
O Obtain DNS server addres	ss automatically	O Obtain DNS server addre	ess automatically
• Use the following DNS se	rver addresses:	● Use the following DNS se	erver addresses:
Preferred DNS server:		Preferred DNS server:	
<u>A</u> lternate DNS server:		Alternate DNS server:	· · ·
	Advanced		Adyanced

5.1.1. Generic IP Environment

In case of generic private network environment where IP address 192.168.XXX.XXX are used, users may view the live streaming images on a web page using the device's default IP address:

1. Convert the device's MAC address to the IP address. Refer to the Hexadecimal-Decimal Conversion Chart at the end of the manual.

(The MAC address of the device is attached on the side or bottom of the device.)



- 2. Start the Microsoft® Internet Explorer web browser and enter the address of the device.
- 3. Web streaming and device configurations are supported through ActiveX program. When the ActiveX installation window appears, authorize and install the ActiveX.

5.1.2. Custom IP Environment

IPAdminTool is a management tool, which automatically scans all of the network products for users to perform administrative tasks, which includes network configurations, firmware update, device reboot, and device organizations.

IPAdminTool v3.22.0.0					_ 🗆 ×		
File Setup System							
IP Setup Update Reboot Device Info Refresh Updating Exit							
Product Name 🔺	Rack Info	IP Address	MAC Address	USN	Friendly Name	Firmware	Uptime
EEN-2040	M1	192.168.0.129	00:13:23:08:FA:81	EB008FA81	EEN-2040	1.9.0.12	00,00:01
EEN-2040	M2	192.168.0.130	00:13:23:08:FA:82	EB008FA82	EEN-2040	1.9.0.12	00,00:01
EEN-2040	M3	192.168.0.131	00:13:23:08:FA:83	EB008FA83	EEN-2040	1.9.0.12	00,00:01
EEN-2040	MO	192.168.0.128	00:13:23:08:FA:80	EB008FA80	EEN-2040	1.9.0.12	00,00:01

To modify the device's default IP address for customized network area;

- 1. Find the device from the IPAdminTool's list and highlight the device's name.
- 2. Right-click the mouse and select IP Address; IP Setup window appears.

	IP Setup				
Selected Dev	Selected Device : EEN-2040(192.168.0.129)				
C DHCP	Static	.ocal Network information			
IP Address	192 . 168 . 0 . 129	Net 1 Net 2			
Subnet Mask	255.255.0.0	Client Network Information Adapter Info:Intel(R) Gigabit CT Desktop Adapter Adapter Name:{E382A60A-7588-471A-A6BC-715B7AC4C327} MAC Address:001b2139520a IP Address:0.0.00 Subnet Mask:0.0.0 Gateway:0.0.00 DNS:			
GateWay	192.168.0.1				
DNS	10.0.0.1				
Setup	Cancel				

- 3. In the IP Setup's window, information under **Local Network information** displays the user/PC's network area information. Those information need to be incorporated to the IP Address, Subnet Mask, Gateway, and DNS boxes, except the last 2 sets of IP Address, which are to be the unique numbers for the device. Refer to the image above for the setting
- 4. Click Setup to complete the modification.

5.2. View video on web page

Once the device's proper IP address has been identified, type the URL in a web browser to access the camera. At first time access, installation window may pop up.

		This website wants to install the following add-on: 'AxUMF.cab' from 'Cap Co'. <u>W</u> hat's the risk?	Install	×
1.	W	/hen the browser asks to install the AxUMF software, click Install to proceed	ł.	



2. When Setup installation pop-up window appears, click **Install** to proceed with rest of installations.



Depending on system OS and Internet Explorer version, installation experience may differ from one another. Figures described above are from Windows 7, Internet Explorer 9 environment.

5.2.1. Access through IPAdmin Tool

IPAdminTool automatically searches all activated network encoders and IP cameras and shows the product name, IP address, MAC address and etc.

- 1. From the IPAdminTool's product list, select the device by highlighting it.
- 2. Right-click the mouse and select **web-view**.

3			IPAdmi	nTool v3.22.0.0	
File Setup System					
IP Setup Upd	ate Reb	ooot Device	Info Refresh		
Selected Device : EEN-2	040(192.168.0.129	9)			
Product Name 🔺	Rack Info	IP Address	MAC Address	USN	Friendly
EEN-2040 EEN-2040 EEN-2040 EEN-2040	M1 M2 M3 M0	192.168.0.129 192.168.0.130 192.168.0.131 192.168.0.128	00:13:23:08:FA: 00:13:23:08:FA: 00:13:23:08:FA: 00:13:23:08:FA:	Web view Reboot Update IP Address Friendly Name Firmware update Ocx update	ite
				Device info	

3. The system's default web browser opens the device's address.



Whether directly accessing the streaming video through typing IP address on a web page or taking steps through IPAdminTool, the ActiveX is needed to be installed for the Microsoft® Internet Explorer to have the complete configuration privileges.

6. Commissioning in GEUTEBRÜCK Software

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 dome functions in Telecontrol.

Following this, the connected encoders (IP cameras) are available in the GeViScope / re_porter software.



Attention: To install the encoders (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 Encoders / 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 **Encoder** (**IP Camera Plugin <E2 IPC>**) that you would like to add.

) A	Add hardware module	0
-	G.	
÷	Hardware <0564edde-a66a-0600-0000-000000	
	PIP-Camera Plugins	-
1	, IP-Camera Plugin <arecontvision ipc=""> (32)</arecontvision>	-
1	IP-Camera Plugin <axis ipc=""> (32)</axis>	
6	IP-Camera Plugin <e2 ipc=""> (32) ◀━━</e2>	
6	IP-Camera Plugin <ecoline ipc=""> (32)</ecoline>	
6	IP-Camera Plugin <gnsd ipc=""> (32)</gnsd>	
1	IP-Camera Plugin <onvif ipc=""> (32)</onvif>	-

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) 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 802.3at High Power over Ethernet (PoE Plus) Switch. If there is a need to operate the Heater 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 encoder / IP camera devices! This operating mode should only be used if a continuous connection to the DHCP server is ensured!

GeViScope Setup	and the second se		-
File Edit View ?			
₩ 🗅 🏭 🔆 😂 🔛 🝕	+ က က 🖨 🖻 🖻 ဟိ 🔆 🗕 🗙	A ¥	re_po
_	Hardware configuration		
Connections A	Hardware module list	i Settings	
- Kocal		Hardware settings	
	▷ - 3≹ PTHC Test	Name:	
		IP-Camera Plugin 001	
General settings 🕆		Connection Streaming Behaviour Fisheye Advanced Failover	
Media channels			
TO settings		IP-Address : Port 192.168.0.250	: 80
_9 to settings		RTSP Port	554
Event/Alarm settings		Username root	
APF-Connections		Password •••••	
Quality profiles			
Behavioural rules			
W Blocking filter			
	C	Telecontrol camera	
* Telecontrol		Use system audio	
II Time ranges	E		

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).

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

When you have checked all the settings yet again, click the *included* 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.

4	🛱 Module channels 💽
	IP-Cameras Module channel 1 on <ip-camera 001="" plugin=""> (E2 IPC)</ip-camera>
	Add

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.

GeViScope Setup			
File Edit View ?			
品 🗅 品 🏠 😂 🖬 🦛	🗠 🍋 🖉 🕒 🛍 🕌 💥 🗙	A ¥	re_porter 🚺 16
	Quality profiles configuration Quality profile list	Duality profile	
Connections	Video profiles High Redum Low Videoprofil 001	lame: gh Description:	
General settings 🏦	PIIPC-Low	figh	
X ⁹ Media channels		juality level: 91	ſ.
JIO settings	1		100
event/Alarm settings		UNEC ACCENT TO COMMENT IDEC Divis (ID Comment H 264	
APE-Connections		MPEG4CCTV IP-Camera JPEG Piligin / IP-Camera 11201	
		Video size: 1920 x 1080	
Behavioural rules		min	max
20			
Y Blocking filter		H264 Device type	Image format
* Telecontrol		ArecontVision IPC	1920 × 1080
I Time ranges	E	Axis IPC	1920 × 1080
Set Hardware		E3 IPC	1920 x 1080
og naruware		ECOlne IPC	1280 x 1024
Database		GNSD IPC	1920 x 1080
📑 Auto backup		ONVIF IPC	1920 × 1080
		PIIPC	320 x 240
• User			1920 x 1080
A Licenses		FOR LARCE AND	1560 / 2000

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

Please click on tab **Media channels** \rightarrow folder **Settings** \rightarrow **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).

GeViScope Setup			
File Edit View ?			
甚 🗅 🏭 🎘 🖨 📕 🛉	∽	E #=	re_porter 🔥 1
Connections	Media channel configuration Media channel list Channel 001 Permanent recording Mu Live streaming D - PTHC Test	Media channel Name: EBC-3139 Description: Media groups:	
Media channels		Channel specific custom control	ls:
Event/Alarm settings APF-Connections Quality profiles		Active	
Behavioural rules		Media channel source: Mediachannel ID:	Module channel 1 on <ip-camera 001="" plugin=""> (E3 IPC) ▼ 104 1</ip-camera>
* Telecontrol	E	Global number: FPS granularity:	- 1 [CCIR (25 FPS)

ø				Control				
	Zoom	Focus	Iris	Preset position	n: 000	General f	unctions	Special functions
	In	Near	Open					
						Light		Function X On Off
						Wash	On Off	
	1.12	2122	+	4 5	6	Pump	On Off	Function Y On Off
	-4-	-6-				Camera	On Off	
			·	7 8	9	Text	On Off	Function U On Off
				Call 0	Save	Manual iris	On Off	
			~			Auto focus	On Off	
	Out	Far	Close					

6.2 Comissioning 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*

÷						G-Set – 🗖 🗙
🎝 Local	0	File	Edit	View	Help	GEUTEBRÜCK
	+	Options inform	ation			
ے لکھ Local 🛐 New connection (1)		Conn	ection to GCore	SAM at 'locall	host' established.	
		ntion 🖉	าร		Dongles	/ 🖉 Request new options 🛛 / 🎤 Failed requests
Media channels / Hardware	+	DONGL	ES			Option request
P Media channels						
🕮 Hardware		2.02337-	00-1370891			http://www.geutebrueck.com/?SNR=D0MB860+COdwvGoP6tQm5nRdZoLq1CehCDUN0U6pDto2jn/SzFKc7w=
Events / Behaviour rules	+					Select an option file ("SLK"):
 General settings 						
ि IO settings ★ Quality profiles						

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 Encoders / IP Cameras

G-Code/E2 Series

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:

ø		G-Set	_ 0 ×
📲 Local 🥥 🛛	ile Edit View Hel f)	GEUTEBRÜCK
1. Cameras 2. Media channels			
CAMERAS +	G-Cam G-Cam 0		
Preview 🗙 🗸	Channel settings	Camera settings	Camera preview
Refresh		Camera type: G-Cam	
<search> O</search>		DHCP: X V	
🗭 G-Cam <850-3250> 🗶 🗸	Channel group: <no group=""> + ▼</no>	IP address: 192.168.0.250	
	PTZ: × ✓	Subnet mask: 255.255.255.0	
	Camera name: ESD-3250		
	Mac address: 00-D0-89-11-07-73		
p G-Cam «600°C-34 ▼ ✓		You may change the camera IP settings Camera settings will be updated direct	i here.

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. Select the desired camera by clicking the tick box (changes to green) and edit the general information and the camera-specific data. 1

ò		G-Set	- 0 ×
🌆 Local 🥥 🛛	File Edit View Help		GEUTEBRÜCK
1. Cameras 2. Media channels	3. Summary		
CAMERAS +	G-Cam G-Cam 4		
Preview 🗙 🗸	Channel settings	Camera settings	Carnera preview
Refresh		Camera type: G-Cam	
<search> O</search>	Global number: 4	DHCP: X V	
🕞 G-Cam «ESD-3250» 🗶 🗸	Channel group: <no b="" group<="">> + ▼</no>	IP address: 192.168.0.250	
	PTZ: X V	Subnet mask: 255.255.255.0	
	Camera name: ESD-3250		
	Firmware: gb20150312N52		
🗗 G-Cam <ewrc-34 th="" 🗶="" 🗸<=""><th>Wat address. 00-00-03-11-01-13</th><th></th><th></th></ewrc-34>	Wat address. 00-00-03-11-01-13		
		Camera settings will be updated directly.	

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.

ø							G-S	et							- 🗇 🗙
-9	Local	Ø				Help								G	EUTEBRÜCK
	1. Cameras	2. Media	channels	3. Summary	7										
l	Configuration S	ummary		个											
			General infor	mation				Permanent	record	ing		Live str	eaming		
	Media channel	Global number	Channel group	Camera type	Camera name	IP address	Active	Video profile	Fps	Resolution	Active	Video profile	Fps	Resolution	
l	G-Cam 4	4		G-Cam	ESD-3250	192.168.0.250	True	FullHD (1080p)	25	1920 x 1080	True	FullHD (1080p)	25	1920 x 1080	
l	G-Cam 2			G-Cam	EWPC-3450	192.168.0.240	True	FullHD (1080p)	25	1920 x 1080	True	FullHD (1080p)	25	1920 x 1080	
	X V Previ														Export
	Cancel												Back		Save & Finish

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* **I** on the *command bar* of G-Set.

÷.						G-Set
💿 Local	Ø 💽	File	Edit	View	Help	
 Connections 	+ 1	Media chann	el configurat	ion □ ★ ★ =↓ :	=1	
🚽 Local		🗮 Media cł	nannel list	🏞 Sett	ings	

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. Reboot

- 1. While the device is in use, press the Reset button.
- 2. Wait for the system to reboot.



Please do <u>not hold the reset button for more than 2 seconds</u>. Otherwise, the device may be switched to its Factory Default settings.

7.1. Factory Default

Resetting the device back to the factory default will initialize all parameters including the IP address back to the factory defaults. To reset back to the factory default:

- 1. Press reset button and hold it while the device is in use.
- 2. Release the Reset button after 10 seconds until LED blinks.
- 3. Wait for the system to reboot.



The factory default settings can be inferred as follows:

IP address:	192.168.xx.yy
Network mask:	255.255.0.0
Gateway:	192.168.0.1
User ID:	root
Password:	admin

7.2. Safe Mode

What is Safe Mode?

There may be certain occasions that your camera repeatedly fails to boot. Then, your camera may enter safe mode to be recovered from the occasions by providing the emergency firmware as a factory default.

What may have caused Safe Mode?

Here below are the main typical causes.

- * The power supply is continually unplugged certain times in the middle of system booting.
- * The firmware files required for system booting are damaged.
- * There are conflicts in the system settings.

How to recover your system from Safe Mode

Safe Mode
Your device has entered safe mode now. Device is usually forced to safe mode when device recognizes itself not operating normally over times. In most cases, repeated unstable power connection during the boot is the main cause for safe mode. If you have seen your device in safe mode for the first time, just follow the instructions below to reboot the device.
 Click 'Start Reboot' on the current page. Wait until the device completely reboots.(*It may take a few seconds to several minutes.) Refresh the webpage to check if it appears normal.
If the device is not recovered after you have done the above instructions, it may indicate that settings in device may have been corrupted. Then, try the instructions as follows to reset all settings.
 Click 'Reset All Settings' on the current page. Wait until the device resets all settings. (*It may take a few seconds to several minutes.) Check if the webpage appears normal.
If the device is still in safe mode after you have done the above procedure, it may indicate that there may be a corruption on the firmware of the device. In this case, the device cannot be booted normally. Thus, perform the firmware update according to the instructions below.
 Click 'Browse', and select the appropriate firmware file. Click 'START' to restore the firmware to the device.(*You will see the relevant messages during the firmware update.) Check if the webpage appears normal.
If you are still on this page even after the above procedure, your device may have encountered the worst situation. Certain part of the hardware on the device may have been broken. Thus, you should contact your local agency for further assistance.
Reboot
Start Reboot
Reset All Settings
Reset All Settings
Upload Firmware Image
Choose a firmware image to upload: Browse START

The messages above will appear on the webpage when your device has been rebooted in safe mode. Then, you should follow the instructions on the webpage according each step. If the unit remains in Safe Mode, you should contact your dealer.

8. WALL-MOUNTING

To wall-mount the encoder, follow this instruction:

The encoder has one mounting hole on each side. Mount the device using the included screws and anchor blocks. Refer to the image below.



APPENDIX (A): SPECIFICATIONS

Summary

Video					
Input	1 channel				
Output	1 channel (Loop Out, BNC connector)				
Compression Format	H.264, MJPEG Selectable per Stream				
Number of Streams	Dual Stream, Configurable				
Resolution	D1, 4CIF, 2CIF, VGA, CIF, QCIF, QVGA				
Compression FPS	25/30 fps @ D1 (PAL/NTSC)				
Deinterlacing	Support (DSP)				
Motion Detection	Support (DSP)				
Burnt-in Text (Digital)	Support (DSP)				
Audio (listen only is supported l	by GEUTEBRUECK DVRs)				
Input/output	1 channel / 1 channel				
Compression Format	G.711				
Function					
Digital Input/output	2 channel / 2 channel				
RS-485	1 channel				
RS-232	-				
Network	10/100 Base-T				
Power Over Ethernet	Supported				
Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1				
SD/SDHC Memory slot	1 x MicroSDHC slot (SD Card is not included)				

Electrical Characteristics

Video Input	1 Vp-p, 75Ω
Video Output	1 Vp-p, 75Ω
Audio Input	Mic-in, 0.178Vp-p, 10KΩ
Audio Output	Lineout, 2.26Vp-p , 10KΩ
Sensor(D/I)	Max 50 mA @ 5 VDC
	Max 50 mA @ 24 VDC
Alarm(D/O)	On-state resistance: 50 Ω (max continuous)
Power Source /Consumption (Approx)	DC 12V, PoE IEEE802.3af (Class 0) / 3W @ 12V

Environment Condition

Operating Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)
Operating Humidity	Up to 85% RH

Mechanical Condition

Dimension	103 (W) x 38 (H) x 141 (D) mm
Weight (Approx)	430 g

APPENDIX (B): POWER OVER ETHERNET

The Power over Ethernet (PoE) is designed to extract power from a conventional twisted pair Category 5 Ethernet cable, conforming to the IEEE 802.3af Power-over-Ethernet (PoE) standard. IEEE 802.3af allows for two power options for Category 5 cables.

The PoE module signature and control circuit provides the PoE compatibility signature and power classification required by the Power Sourcing Equipment (PSE) before applying up to 15 Watt power to the port.

PoE compatibility

With non Power Sourcing Equipment (PSE)

When it is connected with non PSE, the power adaptor should be connected.

With power adaptor

Connecting both PSE and power adaptor does not do any harm to the products. Disconnecting power adaptor while it is operating does not stop operation. The product continues to work without rebooting.

Power classification

The PoE Power Class supported by the IP device is Class 0.

Class	Usage	Minimum Power Levels Ou	Maximum Power Levels at					
		tput at the PSE	the Powered Device					
0	Default	15.4 W	0.44 to 12.95 W					

APPENDIX (C): DIMENSIONS





(Unit: mm)

APPENDIX (D): HEXADECIMAL-DECIMAL CONVERSION TABLE

Refer to the following table when you convert the MAC address of your device to IP address.

Hex	Dec	Нех	Dec	Hex	Dec	Hex	Dec	Нех	Dec	Hex	Dec	Hex	Dec
00	0	25	37	4A	74	6F	111	94	148	B9	185	DE	222
01	1	26	38	4B	75	70	112	95	149	BA	186	DF	223
02	2	27	39	4C	76	71	113	96	150	BB	187	EO	224
03	3	28	40	4D	77	72	114	97	151	BC	188	E1	225
04	4	29	41	4E	78	73	115	98	152	BD	189	E2	226
05	5	2A	42	4F	79	74	116	99	153	BE	190	E3	227
06	6	2B	43	50	80	75	117	9A	154	BF	191	E4	228
07	7	2C	44	51	81	76	118	9B	155	C0	192	E5	229
08	8	2D	45	52	82	77	119	9C	156	C1	193	E6	230
09	9	2E	46	53	83	78	120	9D	157	C2	194	E7	231
0A	10	2F	47	54	84	79	121	9E	158	C3	195	E8	232
0B	11	30	48	55	85	7A	122	9F	159	C4	196	E9	233
0C	12	31	49	56	86	7B	123	A0	160	C5	197	EA	234
0D	13	32	50	57	87	7C	124	A1	161	C6	198	EB	235
0E	14	33	51	58	88	7D	125	A2	162	C7	199	EC	236
0F	15	34	52	59	89	7E	126	A3	163	C8	200	ED	237
10	16	35	53	5A	90	7F	127	A4	164	C9	201	EE	238
11	17	36	54	5B	91	80	128	A5	165	CA	202	EF	239
12	18	37	55	5C	92	81	129	A6	166	СВ	203	FO	240
13	19	38	56	5D	93	82	130	A7	167	CC	204	F1	241
14	20	39	57	5E	94	83	131	A8	168	CD	205	F2	242
15	21	3A	58	5F	95	84	132	A9	169	CE	206	F3	243
16	22	3B	59	60	96	85	133	AA	170	CF	207	F4	244
17	23	3C	60	61	97	86	134	AB	171	D0	208	F5	245
18	24	3D	61	62	98	87	135	AC	172	D1	209	F6	246
19	25	3E	62	63	99	88	136	AD	173	D2	210	F7	247
1A	26	3F	63	64	100	89	137	AE	174	D3	211	F8	248
1B	27	40	64	65	101	8A	138	AF	175	D4	212	F9	249
1C	28	41	65	66	102	8B	139	B0	176	D5	213	FA	250
1D	29	42	66	67	103	8C	140	B1	177	D6	214	FB	251
1E	30	43	67	68	104	8D	141	B2	178	D7	215	FC	252
1F	31	44	68	69	105	8E	142	B3	179	D8	216	FD	253
20	32	45	69	6A	106	8F	143	B4	180	D9	217	FE	254
21	33	46	70	6B	107	90	144	B5	181	DA	218	FF	255
22	34	47	71	6C	108	91	145	B6	182	DB	219		
23	35	48	72	6D	109	92	146	B7	183	DC	220		
24	36	49	73	6E	110	93	147	B8	184	DD	221		



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