

FOR A GOOD **REASON GRUNDIG**

Owner's Manual

en

IP Cameras & Domes

GCI-H0522V	720P HD IP Colour Fixed Dome Camera
GCI-K0322V	1080P Full HD IP C/B&W AV Fixed Dome w/ IR LED

GCI-H0522V.12.1.31.01.2011 © ASP AG



Design and specifications are subject to change without notice

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1. Introduction

This GRUNDIG IP Dome Camera is capable of serving real time streaming and makes the images run more smoothly. In addition to MJPEG real time streaming, this camera develops H.264 codec to apply for high resolution digital broadcast.

With a compact and sophisticated mechanical design, this IP Dome Camera is easily installed and aesthetic. Additionally, the IP Dome Camera's vandal proof cover (IK10) can protect the camera from heavy damage. These instructions apply to the following products. For the different properties of the products please refer to the table.

Model	HD	IR-LED
GCI-H0522V	720p	-
GCI-K0322V	1080P	*

2. Important Safety Instructions

Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.

Do not place conductive objects (e.g. screwdrivers, coins or any metal items) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.

If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.

If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way. (GRUNDIG is not liable for problems caused by unauthorized modifications or attempted repair.)

To prevent fire or electric shock, do not expose the inside of this device to rain or moisture.

3. Package Contents

These parts are included:



4. Installation

Do not install in a location subject to high temperature (over 50°C), low temperature (below -10°C), or high humidity. Doing so may cause fire or electric shock. Keep out of direct sunlight and heat radiation sources. It may cause fire. Avoid aiming the camera directly towards extremely bright objects such as sun, as this may damage the image sensor.

Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock. Install it in a place with good ventilation.

When installing the camera, fasten it securely and firmly. A falling camera may cause personal injury.

If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.

4.1. Camera's Connectors

The diagram below shows the IP Dome Camera's reset button and various connectors. Definition for each connector will be given as follows.



4.2. System Requirements

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

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 XP / Windows VISTA / Windows 7

Web Browser : Microsoft Internet Explorer 6.0 or later Firefox Chrome Safari

Network Card : 10Base-T (10 Mbps) or 100Base-TX (100 Mbps) operation

Viewer : ActiveX control plug-in for Microsoft IE

4.3. Power Connection

Make sure the camera's power cable is correctly and firmly connected; refer to the pin definition table in section 4.1. Camera's Connectors. If using Power over Ethernet (PoE), make sure Power Sourcing Equipment (PSE) is in use in the network.

4.4. Ethernet Cable Connection

Use of Category 5 Ethernet cable is recommended for network connection; to have best transmission quality, cable length shall not exceed 100 meters. Connect one end of the Ethernet cable to the RJ45 connector of the IP Camera, and the other end of the cable to the network switch or PC.

NOTE: In some cases, you may need use an Ethernet crossover cable when connecting the IP Camera directly to the PC.

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



Green Link Light indicates good network connection. Orange Activity Light flashes for network activity indication.

4.5. Hard Ceiling

This IP Dome Camera can be installed directly on a wall or ceiling. Please note that the wall or ceiling must have enough strength to support the IP Dome Camera.

Follow the steps below to install the IP Dome Camera:

Step 1:

Unpack the IP Dome Camera package and take out the IP Dome Camera.



Step 2:

Use a Security Torx to unscrew the two Torx screws on the side of the Dome Cover, as shown in the figure, and open the Dome Cover. The Security Torx is included in the package.



Step 3: Press both sides of the Inner Cover and remove it from the Dome Camera unit.



Step 4: Unscrew the module-fastened screw, as indicated in the picture.



Step 5: Press the sides of the snap-on module, as indicated in the figure, and detach it from the Dome Camera's housing.

Step 6:

Mark the positions of the four screw holes on the base of the Dome Camera at the chosen installation location.

Step 7:

In the marked locations, drill each hole slightly smaller than the screw anchors.

Step 8:

Put the anchors into these drilled holes.



Step 9:

Fasten the Dome Camera's housing with four self tapping screws. Please use the supplied rubber washers for sealing the self tapping screws.



Thread the power and Ethernet cables through either the side conduit entry or back conduit entry, as illustrated. Users may use a coin to screw off the conduit entry block. NOTE: The Power Cable is omitted if using PoE.

Step 11: Connect the power and Ethernet cables to the mating connectors on the Dome Camera unit.



Step 12:

Step 10:

Attach the snap-on module into the Dome Camera housing, and screw the module-fastened screw tightly to secure the camera module.

NOTE: The terminal blocks should face the side conduit entry, as shown in the figure.

Step 13:

Connect the power and network outputs. NOTE: The Power Cable is omitted if using PoE.

Step 14:

Access the camera browser-viewer for viewing images. Please refer to 6. Accessing the Camera for further details. Users can also use the camera's BNC connector for video output. To use the BNC output, first you need to configure the video format in the sub-menu "Video Format" (in the Streaming main-menu) either as MJPEG+BNC or as H.264+BNC. Please refer to section 10.1. Video Format. In the default setting, there will be no signal for the BNC output.

Step 15:

Adjust the camera to a desired angle, as shown below. Pan adjustment range is nearly 360°; rotation angle range approaches 270°. The Tilt is adjustable between -10° ~ 90°.



Pan Adjustment



Rotation Adjustment



Tilt Adjustment

NOTE: Adjust the lens carefully within the limits mentioned above, otherwise the cables underneath could be harmed.



Step 16:

Adjust the zoom ring screw to set the desired zoom; subsequently, modifying the focus ring screw to set the desired focal length.

Step 17: Put the Inner Cover back to the Dome Camera unit.

Step 18:

Replace the Dome Cover back, aligning the arrow mark on the Dome Cover with the one on the housing as shown in the picture.



Step 19:

Screw on the two Torx screws on the side of the Dome Cover tightly to fasten the Dome Cover. Camera installation is complete.

4.6. 4S Mount Electrical Box

Before installing the IP Dome Camera in the 4S Electrical Box, please unscrew and open the Dome Cover with the Security Torx. In the picture below you can see a 4S Mount Electrical Box.



4S Mount Electrical Box

Step 1:

Run the wires (Ethernet and power) through the wall. NOTE: The power cable is omitted if using PoE.

Step 2:

Disassemble the Dome Camera's Inner Cover (see the illustration in 4.5. Hard Ceiling: Step 3) from the Dome Camera unit.

Step 3:

Detach the snap-on camera module from the Dome Camera's housing by unscrewing the module-fastened cross head screw first. Then press the sides of camera module and pull it out of the housing.



Step 4:

Thread the power and Ethernet cables through either the side conduit entry or back conduit entry. Then fasten the Dome Camera's housing on the Electrical Box with the two screws.

Step 5:

Connect the power and Ethernet cables to their connectors on the Dome Camera unit.

Step 6:

Attach the snap-on camera module onto the Dome Camera's housing and screw the module-fastened screw tightly to secure the camera module.

Step 7:

Access the camera browser-viewer for viewing images. Please refer to 6. Accessing the Camera for further details. Users can also use the camera's BNC connector for video output. To use the BNC output, first you need to configure the video format in the sub-menu "Video Format" (in the Streaming main-menu) either as MJPEG+BNC or as H.264+BNC. Please refer to section 10.1. Video Format. In the default setting, there will be no signal for the BNC output.

Step 8:

Position the camera at a desired angle by Pan/Tilt/Rotation adjustment.

Step 9:

Adjust the camera's focal length and focus via zoom and focus ring screws.

Step 10:

Replace the Dome Cover back, aligning the arrow mark on the Dome Cover with the one on the housing.

Step 11:

Screw on the two Torx screws on the side of the Dome Cover tightly to fasten the Dome Cover. Camera installation is complete.

5. Deleting the Existing GRUNDIG Viewer

For users who have installed the GRUNDIG Viewer for 1.3 Megapixel Series IP Cameras on the PC, please first delete the existing GRUNDIG Viewer from the PC before accessing this IP Camera.

Deleting the GRUNDIG Viewer :

Click "Control Panel", and then click on "Add or Remove Programs". In the "Currently installed programs" list, select "GRUNDIG Viewer" and click the button "Remove" to uninstall the existing GRUNDIG Viewer as shown in the figure below.



Deleting Temporary Internet Files :

To improve the browser performance, it is suggested to clean up all the files in the Temporary Internet Files. The procedure is as follows (for other web browsers please read the corresponding manuals):

STEP 1: Click on the "Tools" tab and select the option "Internet Options".

	Tools Help	File Edit View Favorites
	Delete Browsing History	🙀 🏘 🛃 Google
'oogle	Pop-up Blocker Phishing Filter Manage Add-ons	
oogle	Subscribe to this Feed Feed Discovery Windows Update	
	Diagnose Connection Problems Sun Java Console	
ogle Search I'm Feeling Lucky	Internet Options	
re to watch the World Cup with Google Maps		
	Advertising Programs	

STEP 2: Click on "Delete" in the first pop-up window. Then tap the "Delete Files" in the "Temporary Internet files" section in the next pop-up window.

General Security Privacy Content Connections P	rograms Advanced
Home page	
To create home page tabs, type each addre	ss on its own line.
http://www.google.com/	*
	*
Use current Use default	Use blank
Browsing history	
Delete temporary files, history, cookies, sav	ed passwords,
and web form information.	
Delete	Settings
Search Change search defaults.	Cattings
	Settings
Tabs	
Change how webpages are displayed in tabs.	Settings
Appearance	
Colors Languages Fonts	Acc <u>e</u> ssibility
OK Cano	el Apply
UK Cano	cel Apply
	el Apply
Delete Browsing History	
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that	
Delete Browsing History Temporary Internet Files	
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies	_ O X
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies	
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information.	_ O X
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information. History	_ O X
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information. History	Delete files
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information. History List of websites you have visited. Form data	Delete files Delete cookies
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information. History List of websites you have visited. Form data	Delete files
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information. History List of websites you have visited. Form data Saved information that you have typed into forms.	Delete files Delete cookies
Delete Browsing (History) Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information. History List of websites you have visited. Form data Saved information that you have typed into forms. Passwords Passwords that are automatically filed in when	Delete files Delete cookies
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information. History List of websites you have visited. Form data Saved information that you have typed into forms. Passwords	Delete files Delete cookies Delete history
Delete Browsing History Temporary Internet Files Copies of webpages, images, and media that are saved for faster viewing. Cookies Files stored on your computer by websites to save preferences such as login information. History List of websites you have visited. Form data Saved information that you have typed into forms. Passwords Passwords that are automatically filled in when to a website you've previously	Delete files Delete cookies Delete history

6. Accessing the Camera

For initial access to the IP Camera, users can search the camera through the installer program: GRUNDIG Finder.exe, which can be found on the supplied CD.

GRUNDIG Finder Software Setup :

Step 1: Double-click on the program GRUNDIG Finder.exe (see the icon below); its window will appear as shown below. Then click the "Find Device" button.



Content Con				
C IP Relay		▼	Find D	evice
lodel Project	Name	IP	Port Netmask	MAC

Step 2: The security alert window will pop up. Click "Unblock" to continue.



 ${\sf Device}\;{\sf Search}:$

Step 3: Click "Find Device" again, and all the IP devices found will be listed on the page, as shown in the picture below. The IP Camera's default IP address is: 192.168.1.1.

Search Method		Project Fil	ter	1 de	vice(s) found!	
C IP Relay	_		-		Find Dev	rice
Model	Project	Name	IP	Port	Netmask	MAC
GCI-H0503B	GCI-H0503B	MegaPixelCamera	192.168.44.221	80	255.255.255.0	B8:41:5F:01:AD:B4

Step 4: Double-click or right-click and select "Browse" to access the camera directly via web browser.

GRUNDIG Find	er 1.00	-	Contraction of the local division of the loc	-			
Search Method	ast	Projec		1 device(s) fou Find		ice	
Model	Project	Name		IP	Port	Netmask	MAC
GCI-H06028	GCI-H06028	MegaPixelCame	Detail info. Browse Network se	tup	80	255,255,255,0	00.D0.89.06.B3.CF

Step 5: Then the dialogue box for entering the default username and password (as shown below) will appear for logging in to the IP Dome Camera.

R	
MegapixelIPCamera User name: Password:	£
Eassword:	Remember my password OK Cancel

The default login ID and password for the Administrator are:

Login ID: admin Password: 1234

NOTE: ID and password are case sensitive.

It is strongly advised that administrator's password be altered for security concerns. Refer to section 9.2. Security for further details.

Additionally, users can change the IP Camera's network property, either DHCP or Static IP, directly in the device finding list. Refer to the following section for changing the IP Camera's network property.

Example of changing IP Camera's network property :

Users can directly change an IP Camera's network property, e.g. from static IP to DHCP, in the finding device list. The way to change the IP Camera's network property is specified below:

Step 1: In the finding device list, click on the IP Camera of which you would like to change the network property. On the selected item, right-click and select "Network Setup". Meanwhile, record the IP Camera's MAC address, for future identification.



Step 2: The "Network Setup" page will come out. Select "DHCP," and press the "Apply" button down the page.

SRUNDIG Finde	r 1.00					
Search Method © Local Broadcas C IP Relay	t TCP		Project Filter	1 device(s) found!	evice	
	1	_	Network setup	<u> </u>		
Model	Project	Name	Device Information	_	Port Netmask	MAC
GCI-H0602B	GCI-H0602B	MegaF	Model GCI-H060	128	80 255.255.255.0	00:D0:89:06:83:CF
	1		Project GCI-H060	12B		
			Name MegaPixe	ICamera		
			MAC 00:D0:89	06:B3:CF		
			Network Property			
			C DHCP S	atic IP		
			IP Address 192.	168.1.1		
			Gateway 192.	68.1.254		
			Netmask 255.	255.255.0		
			DNS 0.0.0	.0		
			Apply	Close 🗸 🔻		
			•			

Step 3: Click "OK" on the Note of setting change. Wait for one minute to re-search the IP Camera.



Step 4: Click the "Find Device" button to search all the devices. Then select the IP Camera with the correct MAC address. Double-click on the IP Camera, and the login window will come out.

SRUNDIG Fir	der 1.00					
Search Method		Project Filt	er	1 de	vice(s) found!	
Local Broad C IP Relay			-		Find Dev	ice
Model	Project	Name	IP	Port	Netmask	MAC
GCI-H0503B	GCI-H0503B	MegaPixelCamera	192.168.44.221	80	255.255.255.0	B8:41:5F:01:AD:B4

Step 5: Enter User name and Password to access the IP Camera.

Installing the GRUNDIG Viewer Software Online :

For initial access to the IP Camera, a client program, GRUNDIG Viewer, will be automatically installed to your PC when connected to the IP Camera.

If the Web browser doesn't allow the GRUNDIG Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (see 14. Internet Security Settings) 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 (see the picture below). Right-click on the Information Bar and select "Install ActiveX Control..." to allow the installation.

🖉 network HD Camera - Windows Internet Explorer	NAMES OF TAXABLE PARTY.	
G . thp://192.168.44.220/		- 🖹 4 🗙 🚮 Google 🖉 -
👷 Favoriten 🛛 🙀 🍘 Vorgeschlagene Sites 🔹 😰 Web Sice-Katalog 🔹		
C network HD Camera		🦄 🔻 🖾 👻 🖓 👻 Seite 🕶 Sicherheit 👻 Extras 🕶 🔞 💌
This site might require the following ActiveX control: 'install cab' from 'ASP AG'. Please click	Install ActiveX Control	×
	What's the risk?	
GRUNDIG	Information Bar Help	

Then the security warning window will pop up. Click "Install" to carry on software installation.

Click "Finish" to close the GRUNDIG Viewer window when download is finished. For the detailed software download procedure, please refer to chapter 10. GRUNDIG Viewer Download Procedure.

Once logged in to the IP Camera, users will see the Home page as shown below:



Administrator/User Privileges :

"Administrator" represents the person who can configure the IP Camera and who authorizes users to have access to the camera; "User" refers to whoever has access to the camera with limited authority, i.e. to enter Home and Camera setting pages.

Image and Focus Adjustment :

This image appears on the Home page when successfully accessing to the IP Camera. Adjust zoom and focus as necessary to produce a clear image.

7. Browser-based Viewer Introduction

The picture below shows the Home page of the IP Camera's viewer window.



There are five tabs on the left (Home, System, Streaming, Camera and Logout) and one tab on the right (Languages).

Home :

Users can monitor the live video of the targeted area.

System setting :

The administrator can set host name, system time, admin password, network related settings, etc. Further details will be interpreted in chapter 9. System Related Settings.

Camera setting :

Users can adjust various camera parameters.

Logout :

Click on the tab to re-login the IP Camera with another username and password.

Languages : Please choose one of the supported languages (German, English or French).

8. Home Page

In the Home page, there are several function buttons right down the displayed image.



NOTE: Please note that the function buttons will vary depending on the camera model.

Display Mode (Screen Size Adjustment) : Image display size can be adjusted to x1/2 and full screen.

Digital Zoom Control :

In the full screen mode, users can implement digital PTZ by rotating the mouse wheel (for zoom in/out), and drag the mouse into any direction.

Talk button (on/off) :

Talk function allows the local site to talk to the remote site. Click on the button to switch it to on/off. Please refer to section 9.2. Security: User >> Add user >> Talk/Listen for further details. This function is only open to the "User" who has been granted this privilege by the Administrator.

Please note that additional equipment will be necessary.

Speaker button (on/off) : Press the Speaker button to mute/activate the audio.

Snapshot button :

Press the button, and the JPEG snapshots will automatically be saved in the appointed place. The default place of saving snapshots is: C:\. For changing the storage location, please refer to section 9.13. File Location for further details.

NOTE: Users with Windows 7 operating system need to follow the following procedure to be able to use the Snapshot function. First you need to log on to your computer as an Administrator. Then you go to Windows Start menu, click with the right mouse button on your Internet Browser and select in the appearing pop-up window "Run as Administrator". Afterwards you can log in to your camera as usual (as an administrator or user).

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Video Streaming Stop/Restart button (stop/restart) :

If you press the stop button to disable video streaming, the live video will be displayed as black. Press the restart button to show the live video again.

Recording button (on/off) :

Press the button and the recordings from the Live View will be saved to the location specified in the "File Location" (snapshot) page. The default storage location for the recording is: C:/. See section 9.13. File Location for further details.

NOTE: Users with Windows 7 operating system who want to use the Recording function, need to follow the procedure in the NOTE below the "Snapshot button" section in this chapter.

Multiple Languages Support : Multiple languages are supported for the viewer window interface.

9. System Related Settings

The picture below shows all categories under the "System" tab. Each category in the left column will be explained in the following sections.

NOTE: The	"System"	configuration	page is only	accessible by the	Administrator.
NOTE. THE	System	configuration	page is only	accessible by the	Aunmistrator.

GRUNDIG		
> System	System	
System	Host Name : MegaPi	ixelCamera
Security 🔻	Time zone : GMT+0	01:00 Tunisia, France, Germany, Italy
Network 🔻		
DDNS	🔲 Enable daylight savi	ing time
Mail	time offset: 0	01:00:00
FTP	Start date: Ja	lan • 1st • Sun • Start time: 00:00:00
нттр	End date: Ja	lan ▼ 1st ▼ Sun ▼ End time: 00:00:00
Application	p	
Motion detection	Sync with computer	r time
Storage management	PC date: 2	2010/11/10 [yyyy/mm/dd]
Recording	PC time: 0	08:53:03 [hh:mm:ss]
File location	© Manual	
Iris adjustment	Date: 2	2007/01/01 [yyyy/mm/dd]
View log file		
View user information	lime: U	00:00:00 [hh:mm:ss]
View parameters	Sync with NTP serve	er
Factory default	NTP server: 0	0.0.0.0 [host name or IP address]
Software version	Update interval: E	Every hour 🔻
Software upgrade	S	Save
Maintenance		
< Back		

9.1. Host Name and System Time Setting

Press the first category: <System> in the left column; the page is shown below.

GRUNDIG		
> System	System	
System	Host Name :	MegaPixelCamera
Security 🔹	Time zone :	GMT+01:00 Tunisia, France, Germany, Italy
Network 🔻		
DDNS	Enable daylig	ht saving time
Mail	time of	fset: 01:00:00
FTP	Start	late: Jan ▼ 1st ▼ Sun ▼ Start time: 00:00:00
нттр	End	late: Jan ▼ 1st ▼ Sun ▼ End time: 00:00:00
Application	,	
Motion detection	Sync with cor	nputer time
Storage management	PC	date: 2010/11/10 [yyyy/mm/dd]
Recording	PC	time: 08:53:03 [hh:mm:ss]
File location	© Manual	
Iris adjustment		Date: 2007/01/01 [yyyy/mm/dd]
View log file		
View user information		īme: 00:00:00 [hh:mm:ss]
View parameters	Sync with NT	P server
Factory default	NTP se	rver: 0.0.0.0 [host name or IP address]
Software version	Update inte	rval: Every hour 🔻
Software upgrade		Save
Maintenance		
< Back		

Host Name :

The name is for camera identification (max. 30 characters). If alarm function (see section 9.8. Application) is enabled and is set to send an alarm message by Mail/FTP, the host name entered here will display in the alarm message.

Time Zone :

Select the time zone you are in from the drop-down menu.

Enable Daylight Saving Time :

To enable DST, please check the item and then specify time offset and DST duration. The format for time offset is [hh:mm:ss]; for instance, if the amount of time offset is one hour, please enter "01:00:00" into the field.

Sync with Computer Time :

Select the item, and video date and time display will synchronise with the PC's.

Manual :

The Administrator can set date, time and day manually. Entry format should be identical with that shown next to the enter fields.

Sync with NTP server :

Network Time Protocol (NTP) is an alternate way to synchronise your camera's clock with a NTP server. Please specify the server you wish to synchronise in the enter field. Then select an update interval from the drop-down menu. For further information about NTP, please see the web site: www.ntp.org.

NOTE: Press < Save > to confirm the new setting.

9.2. Security

Click the category: <Security>, there will be a drop-down menu with tabs including <User>, <HTTPS>, <IP Filter>, and <IEEE 802.1X>.

<User> :

Click the <User> tab under the category <Security> and the page is shown as the picture below.

GRUNDIG	
> System	Security
System	Admin Password
Security	
User	Admin password
HTTPS	Confirm password •••••••• Save
IP filter	
IEEE 802.1X	Add User
Network 🔻	User name
DDNS	User password
Mail	☑ I/O access
FTP	Talk Listen Add
нттр	Manage User
Application	User name no user Delete Edit
Motion detection	
Storage management	
Recording	
File location	
lris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	

NOTE: The following characters are valid: A-Z, a-z, 0-9, !#\$%&'-.@^_~.

Admin Password :

Change the administrator's password by putting in the new password in both text boxes. The input characters/numbers will be displayed as dots for security purposes. After clicking <Save>, the web browser will ask the Administrator for the new password for access. The maximum length of the password is 14 digits.

Add User :

Type the new user's name and password and click <Add> to add the new user. The user name can have up to 16 characters, the password up to 14 characters. The new user will be displayed in the user name list. A maximum of 20 user accounts can be set. To each user the privileges of "Camera control", "Talk" and "Listen" can be assigned.

User name	[user]	
User password	••••	
☑ I/O access	<table-cell> Camera control</table-cell>	
🕅 Talk	🗹 Listen	
Save	Close	

- I/O access:

This item supports fundamental functions that enable users to view video when accessing the camera.

- Camera control:

This item allows the specified User to change camera parameters on the Camera Setting page.

- Talk/Listen:

Talk and Listen functions allow the appointed user in the local site (PC site) communicating with, for instance, the administrator in the remote site.

Manage User :

To delete a user, pull down the user list, and select the user name you wish to delete. Then click <Delete> to remove it.

To edit a user, pull down the user list and select a user name. Click <Edit> to edit the user's password and privilege.

NOTE: It is required to enter the User password and to select the function open to the user. When finished, click <Save> to modify the account authority.

🥖 http://192.168.7.12	3/lang1/server_editaccount	
🔊 http://192.168.7.123/lar	ng1/server_editaccount.html	Ŧ
User name	[user]	
User password	••••	
✓ I/O access	Camera control	
🕅 Talk	Listen	
Save	Close	
Don	🕘 Internet	€ 100% ▼ .:i

<hr/>HTTPS> :</hr>

<HTTPS> allows secure connections between the IP Camera and the web browser using the <Secure Socket Layer (SSL)> or the <Transport Layer Security (TLS)>, which prevent camera settings or Username/Password info from snooping. It is required to install a self-signed certificate or a CA-signed certificate for implementing <HTTPS>.

Click the <https> tab, and the HTTPS se</https>	etting page is shown	as the figure below.
---	----------------------	----------------------

GRUNDIG	
> System _{System}	HTTPS Create self-signed certificate
Security A	Create Install signed certificate
HTTPS IP filter	Create Certificate Request
IEEE 802.1X	Upload signed certificate Browse Upload
Network	Created Request Subject
Mail	No certificate request created.
FTP	Properties Remove Installed Certificate
нттр	Subject
Application Motion detection	No certificate installed.
Storage management	Properties Remove
Recording	
File location	
Iris adjustment	
View log file View user information	
View parameters	
Factory default	
Software version	

To use HTTPS on the IP Camera, a HTTPS certificate must be installed. The HTTPS certificate can be obtained by either creating and sending a certificate request to a Certificate Authority (CA) or creating a self-signed HTTPS certificate, as described below.

Create Self-signed Certificate :

Before a CA-issued certificate is obtained, users can create and install a self-signed certificate first.

GRUNDIG	
> System	HTTPS
System	Create self-signed certificate
Security 🔺	Create
User	Install signed certificate
HTTPS	Create Certificate Request
IP filter	Upload signed certificate
IEEE 802.1X	Browse Upload
Network 🔻	Created Request
DDNS	Subject
Mail	No certificate request created.
FTP	Properties Remove
нттр	Installed Certificate Subject
Application	No certificate installed.
Motion detection	Properties Remove
Storage management	roperdeo Remore
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	

Click the <Create> button under "Create self-signed certificate" and provide the requested information to install a self-signed certificate for the IP Camera. Please refer to the last part of this section: Provide the Certificate Information for more details.

NOTE: The self-signed certificate does not provide the same high level of security as when using a CA-issued certificate.

Provide the requested information in the Create Dialog. Please refer to the following Provide the Certificate Information for more details.

Create Certificate Request :

Click the "Create Certificate Request" button to create and submit a certificate request in order to obtain a signed certificate from CA.

GRUNDIG	
> System	HTTPS
System	Create self-signed certificate
Security 🔺	Create
User	Install signed certificate
HTTPS	Create Certificate Request
IP filter	Upload signed certificate
IEEE 802.1X	Browse Upload
Network 🔻	Created Request
DDNS	Subject
Mail	No certificate request created.
FTP	Properties Remove
НТТР	Installed Certificate
Application	Subject
Motion detection	No certificate installed.
Storage management	Properties Remove
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	

When the request is complete, the subject of the Created Request will be shown in the field. Click "Properties" below the Subject field, copy the PEM-formatted request and send it to your selected CA.

When the signed certificate is returned, install it by uploading the signed certificate.

GRUNDIG	
> System	HTTPS
System	Create self-signed certificate
Security 🔺	Create
User	Install signed certificate
HTTPS	Create Certificate Request
IP filter	Upload signed certificate
IEEE 802.1X	Browse Upload
Network 🔻	Created Request
DDNS	Subject
Mail	No certificate request created.
FTP	Properties Remove
HTTP	Installed Certificate
Application	Subject
Motion detection	No certificate installed.
Storage management	Properties Remove
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	

Provide the Certificate Information :

To create a Self-signed HTTPS Certificate or a Certificate Request to CA, please enter the information as requested:

🖉 http://192.168.7.123/lau	ng1/server_certificate 🛛 🛄	
http://192.168.7.123/la	mg1/server_certificate.html	
Create Self-Signed	I Certificate	
Country:		
State or province:		
Locality:		
Organization:		
Organizational Unit	:	
Common Name:		
Valid days:	365 days[19	999]
۵	Cancel	
i i i i i i i i i i i i i i i i i i i	6	100% 🗢
Attp://192.168.7.123/lau	ng1/server_createreq	- - X
http://192.168.7.123/las http://192.168.7.123/las http://192.168.7.123/las	ng1/server_createreq	- 0 ×
	ung1/server_createrequest.html	- C
🕖 http://192.168.7.123/la	ung1/server_createrequest.html	
http://192.168.7.123/ls Create Certificate	ung1/server_createrequest.html	• • • ×
http://192.168.7.123/la Create Certificate Country:	ung1/server_createrequest.html	• • • × •
http://192.168.7.123/la Create Certificate Country: State or province:	ung1/server_createrequest.html	
http://192.168.7.123/la Create Certificate Country: State or province: Locality:	Request	
http://192.168.7.123/la Create Certificate Country: State or province: Locality: Organization:	Request	
 http://192.168.7.123/la Create Certificate Country: State or province: Locality: Organization: Organizational Unit 	Request	
http://192.168.7.123/la Create Certificate Country: State or province: Locality: Organization: Organizational Unit Common Name:	Request	

- Country:

Enter a 2-letter combination code to indicate the country the certificate will be used in. For instance, type in "GB" to indicate Great Britain.

- State or province:

Enter the local administrative region.

- Locality:

Enter other geographical information.

- Organisation:

Enter the name of the organisation to which the entity identified in "Common Name" belongs.

- Organisation Unit:

Enter the name of the organisational unit to which the entity identified in "Common Name" belongs.

- Common Name:

Indicate the name of the person or other entity that the certificate identifies (often used to identify the website).

- Valid days (Self-signed Certificate Only): Enter the period in days (1~9999) to indicate the valid period of the certificate.

Click "OK" to save the Certificate Information after completing.

<IP Filter> :

When using the IP filter, access to the IP Camera can be restricted by denying/allowing specific IP addresses.

GRUNDIG	
> System	IP Filter
System	General
Security 🔺	Enable IP filter
User	Deny the following IP addresses Apply
HTTPS	Filtered IP Addresses
IP filter	Filtered IP Addresses
IEEE 802.1X	
Network 🔻	
DDNS	Delete
Mail	
FTP	
НТТР	0.0.0.0 Add
Application	Aud
Motion detection	
Storage management	
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	

General :

- Enable IP Filter:

Check the box to enable the IP Filter function. Once enabled, the listed IP addresses (IPv4) will be allowed/denied access to the IP Camera.

Select "Allow" or "Deny" from the drop-down list and click the <Apply> button to determine the IP Filter behaviour.

- Add/Delete IP Address:

Input the IP address and click the <Add> button to add a new filtered address.

The Filtered IP Addresses list box shows the currently configured IP addresses. Up to 256 IP address entries may be specified.

To remove an IP address from the list, please select the IP and then click the <Delete> button.

<IEEE 802.1X> :

The IP Camera is allowed to access a network protected by 802.1X/EAPOL (Extensible Authentication Protocol over LAN).

Users need to contact the network administrator to receive certificates, user IDs and passwords.

GRUNDIG		
> System	IEEE 802.1X/EAP-TLS	
System	CA certificate	
Security 🔺	Durchsuchen Upload	
User	Upload CA certificate.	
HTTPS	Client certificate	
IP filter	Durchsuchen Upload	
IEEE 802.1X	Upload Client certificate.	
Network 🔻	Private key	
DDNS	Durchsuchen Upload	
Mail	Upload Private key. Settings	
FTP	Identity admin	
HTTP	Private key password	
Application	Enable IEEE 802.1X	
Motion detection	Save Reset	
Storage management		
Recording		
File location		
Iris adjustment		
View log file		
View user information		
View parameters		
Factory default		
Software version		

CA Certificate :

The CA certificate is created by the Certification Authority for the purpose of validating itself. Upload the certificate for checking the server's identity.

Client Certificate/Private Key :

Upload the Client Certificate and Private Key for authenticating the IP Camera itself.

Settings :

- Identity:

Enter the user identity associated with the certificate. Up to 16 characters can be used.

- Private Key Password: Enter the password (maximum 16 characters) for your user identity.

Enable IEEE 802.1X : Check the box to enable IEEE 802.1X.

Click "Save" to save the IEEE 802.1X/ EAP—TLS setting.

9.3. Network

Click the category: <Network>, there will be a drop-down menu with tabs including <Basic>, <QoS>, <SNMP>, and <UPnP>.

GRUNDIG		
> System	Network	
Security 🔻	Get IP address automatically	
Network A Basic QoS	Use fixed IP address IP address Subnet mask	192.168.44.230 255.255.255.0
SNMP UPnP	Default gateway Primary DNS	192.168.44.1 0.0.0.0
DDNS Mail	Secondary DNS	0.0.0.0
FTP HTTP	User name Password	
Application Motion detection	Advanced	Save
Storage management	Web Server port RTSP port	80 554
File location	MJPEG over HTTP port HTTPS port	8008 443
View log file	IPv6 Address Configuration	Save
View user information View parameters	Enable IPv6	Address : Save
Factory default Software version		

<Basic> :

Users can choose to connect to the IP Camera through a fixed or dynamic (DHCP) IP address. The IP Camera also provides PPPoE (Point-to-Point Protocol over Ethernet) support for users who connect to the network via PPPoE.

GRUNDIG		
> System System Security	Network General © Get IP address automatically	
Network A Basic QoS SNMP UPnP DDNS	Use fixed IP address IP address Subnet mask Default gateway Primary DNS Secondary DNS	192.168.44.230 255.255.255.0 192.168.44.1 0.0.0.0 0.0.0.0
Mail FTP HTTP Application	User name Password Advanced	Save
Motion detection Storage management Recording File location	Web Server port RTSP port MJPEG over HTTP port HTTPS port	80 554 8008 443
Iris adjustment View log file View user information View parameters Factory default Software version	IPv6 Address Configuration	Save Address : Save

Get IP address automatically (DHCP):

The camera's default setting is "Use fixed IP address". Please refer to the previous section 6. Accessing the Camera for login with the default IP address.

If "Get IP address automatically" is selected, after the IP Camera restarts, users can search the IP address through the installer program "GRUNDIG Finder.exe", which can be found in the "GRUNDIG Finder" folder on the supplied CD.

NOTE: Please make a record of the IP Camera's MAC address, which can be found in the label of the camera, for identification in the future.

Use a fixed IP address :

To setup a static IP address, select "Use fixed IP address" and move the cursor to the IP address blank (as indicated below) and insert the new IP address, e.g. 192.168.7.123; then go to the Default Gateway (explained later) and type in the appropriate setting, e.g. 192.168.7.254. Press "Save" to confirm the new setting.

GRUNDIG		
> System	Network	
System	General	
Security 🔻	◎ Get IP address automatically	
Network 🔺	Ouse fixed IP address	
Basic	IP address	192.168.44.230
QoS	Subnet mask	255.255.255.0
SNMP	Default gateway	192.168.44.1
UPnP	Primary DNS	0.0.0.0
DDNS	Secondary DNS	0.0.0.0
Mail	OUse PPPoE	
FTP	User name	
нттр	Password	
Application		Save
Motion detection	Advanced	
Storage management	Web Server port	80
Recording	RTSP port	554
File location	MJPEG over HTTP port	8008
Iris adjustment	HTTPS port	443
View log file	IPv6 Address Configuration	Save
View user information	Enable IPv6	Address :
View parameters		Save
Factory default		
Software version		

When using a static IP address to login to the IP Camera, users can access it either through the "GRUNDIG Finder" software (see 6. Accessing the Camera) or input the IP address in the URL bar and press "Enter".

Ø Grundig IP Camera - Windows Internet Explorer		
(→) √ (€) http://192.168.44.38/	47	×

- IP address:

This is necessary for network identification.

- Subnet mask:

It is used to determine if the destination is in the same subnet. The default value is "255.255.255.0".

- Default gateway:

This is the gateway used to forward frames to destinations in different subnets. An invalid gateway setting will fail the transmission to destinations in different subnets.

- Primary DNS:

Primary DNS is the primary domain name server that translates hostnames into IP addresses.

- Secondary DNS:

Secondary DNS is a secondary domain name server that backups the primary DNS.

 $\mathsf{Use}\;\mathsf{PPPoE}:$

For the PPPoE users, enter the PPPoE Username and Password into the fields, and click on the "Save" button to complete the setting.

 ${\sf Advanced}:$

- Web Server port:

The default web server port is 80. Once the port is changed, the users must be informed about the change for the connection to be successful. For instance, when the Administrator changes the HTTP port of the IP Camera whose IP address is 192.168.0.100 from 80 to 8080, the users must type in the web browser "http://192.168.0.100:8080" instead of "http://192.168.0.100".

- RTSP port:

The default setting of RTSP Port is 554; the setting range is from 1024 to 65535.

- MJPEG over HTTP port:

The default setting of MJPEG over HTTP Port is 8008; the setting range is from 1024 to 65535.

- HTTPS port:

The default setting of HTTPS Port is 443; the setting range is from 1024 to 65535.

NOTE: Be aware to assign a different port number for each separate service mentioned above.

IPv6 Address Configuration :

With IPv6 support, users can use the corresponding IPv6 address for browsing. Enable IPv6 by checking the box and click "Save" to complete the setting.

<QoS> (Quality of Service) :

QoS allows providing differentiated service levels for different types of traffic packets, which guarantees delivery of priority services especially when network congestion occurs. Adapting the Differentiated Services (DiffServ) model, traffic flows are classified and marked with DSCP (DiffServ Codepoint) values, and thus receive the corresponding forwarding treatment from DiffServ capable routers.

GRUNDIG	
> System	QoS
System	DSCP Settings
Security 🔻	Video DSCP 0
Network 🔺	Audio DSCP 0
Basic	Management DSCP 0
QoS	Save
SNMP	
UPnP	
DDNS	
Mail	
FTP	
нттр	
Application	
Motion detection	
Storage management	
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	

DSCP Settings :

The DSCP value range is from 0 to 63. The default DSCP value is 0, which means DSCP is disabled.

The IP Camera uses the following QoS Classes: Video, Audio and Management.

- Video:

This class consists of applications such as MJPEG over HTTP, RTP/RTSP and RTSP/HTTP.

- Audio:

This setting is only available for the IP Cameras which support audio.

- Management:

This class consists of HTTP traffic: Web browsing.

Click the "Save" button to complete the setting.

NOTE: To enable this function, please make sure the switches/routers in the network support QoS.

<SNMP> (Simple Network Management Protocol) :

With Simple Network Management Protocol (SNMP) support, the IP Camera can be monitored and managed remotely by the network management system.

GRUNDIG			
> System	SNMP Settings		
System	SNMP v1/v2		
Security 🔻	Enable SNMP v1		
Network 🔺	Enable SNMP v2		
Basic	Read Community	public	
QoS	Write Community	private	
SNMP			
UPnP	Traps for SNMP v1/v2		
DDNS	Enable traps		
Mail	Trap address		
FTP	Trap community	public	
нттр	Trap Options		
Application	🗌 Warm start		
	Court		
Motion detection	Save		
Storage management			
Recording			
File location			
Iris adjustment			
View log file			
View user information			
View parameters			
Factory default			
Software version			

SNMP v1/v2 :

- Enable SNMP:

Select the version of SNMP to use by checking the box.

- Read Community:

Specify the community name which has read-only access to all supported SNMP objects. The default value is "public".

- Write Community:

Specify the community name which has read/write access to all supported SNMP objects (except read-only objects). The default value is "private".

Traps for SNMP v1/v2 :

Traps are used by the IP Camera to send messages to a management system about important events or status changes.

- Enable Traps:

Check the box to activate trap reporting.

- Trap address:

Enter the IP address of the management server.

- Trap community:

Enter the community to use when sending a trap message to the management system.

Trap Option :

- Warm Start:

A Warm Start SNMP trap signifies that the SNMP device, i.e. the IP Camera, performs a software reload.

Click the "Save" button to complete the setting.

<UPnP> :

GRUNDIG	
> System	UPnP
System	UPnP Setting
Security 🔻	Enable UPnP
Network A Basic	Enable UPnP port forwarding
QoS	Friendly name NV062
SNMP	Save
UPnP	
DDNS	
Mail	
FTP	
нттр	
Application	
Motion detection	
Storage management	
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	

UPnP Setting :

- Enable UPnP:

When the UPnP is enabled, whenever the IP Camera is presented to the LAN, the icon of the connected IP Cameras will appear in My Network Places to allow for direct access as shown below.



NOTE: To enable this function, please make sure the UPnP component is installed on your computer. Please refer to chapter 16. Install UPnP Components for UPnP component installation procedure.

- Enable UPnP port forwarding:

When the UPnP port forwarding is enabled, the IP Camera is allowed to open the web server port on the router automatically.

NOTE: To enable this function, please make sure that your router supports UPnP and is activated.

- Friendly name:

Set the name for the IP Camera for identity.

9.4. DDNS

The Dynamic Domain Name System (DDNS) allows a host name to be constantly synchronised with a dynamic IP address. In other words, it allows those using a dynamic IP address to be associated to a static domain name so that others can connect to it through this name.

GRUNDIG	
> System	DDNS
System	Dynamic DNS
Security 🔻	Use Dynamic DNS If You Want To Use Your DDNS Account.
Network 🔻	Enable DDNS
DDNS	Provider DynDNS.org(Dynamic) 🔻
Mail	Host name
FTP	nostiname
нттр	Username/E-mail
Application	
Motion detection	Password/Key
Storage management	Save
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	
Software upgrade	
Maintenance	
< Back	

Enable DDNS :

Check the item to enable DDNS.

Provider :

Select one DDNS host from the provider list.

Host name :

Enter the registered domain name in the field.

Username/E-mail :

Enter the username or e-mail required by the DDNS provider for authentification.

Password/Key :

Enter the password or key required by the DDNS provider for authentification.
9.5. Mail

The Administrator can send an e-mail via Simple Mail Transfer Protocol (SMTP) when a motion is detected. SMTP is a protocol for sending e-mail messages between servers. SMTP is a relatively simple, text-based protocol, where one or more recipients of a message are specified and to whom the message text is transferred. The configuration page is shown below:

GRUNDIG		
> System	Mail SMTP	
Security 🔻	1st SMTP (mail) server	
Network 🔻	1st SMTP (mail) server port	25
DDNS	1st SMTP account name	
Mail	1st SMTP password	
FTP	1st recipient email address	
нттр	2nd SMTP (mail) server	
Application Motion detection	2nd SMTP (mail) server port	25
Storage management	2nd SMTP account name	
Recording	2nd SMTP password	
File location	2nd recipient email address	
Iris adjustment	Sender email address	
View log file		Save
View user information		
View parameters		
Factory default		
Software version		
Software upgrade		
Maintenance		
< Back		

Two sets of SMTP can be configured. Each set includes SMTP Server, Account Name, Password and E-mail Address settings. Concerning the SMTP server, contact your network service provider for more specific information.

Click the "Save" button to save the changes.

9.6. FTP

The Administrator can set to sending alarm messages to a specific File Transfer Protocol (FTP) site when motion is detected. Users can assign an alarm message to up to two FTP sites. The FTP setting page is shown below. Enter the FTP details, which include server, server port, user name, password and remote folder, in the fields. Click "Save" when the setting is finished.

GRUNDIG		
> System	FTP	
System	FTP	
Security 🔻	Built-in FTP server port	21
Network 🔻	1st FTP server	
DDNS	1st FTP server port	21
Mail	1st FTP user name	
FTP	1st FTP password	
НТТР	1st FTP remote folder	
Application	🔲 1st FTP passive mode	
Motion detection	2nd FTP server	
Storage management	2nd FTP server port	21
Recording	2nd FTP user name	
File location	2nd FTP password	
Iris adjustment	2nd FTP remote folder	
View log file	2nd FTP passive mode	Curr
View user information		Save
View parameters		
Factory default		
Software version		
Software upgrade		
Maintenance		
< Back		
Collection by Art		

9.7. HTTP

A HTTP Notification server can listen for notification messages from IP Cameras by triggered events. The HTTP setting page is shown below. Enter the HTTP details, which include server, user name, and password in the fields. <Alarm> triggered and <Motion Detection> notifications can be sent to the specified <HTTP> server. Click "Save" when the setting is finished.

GRUNDIG	
> System	нттр
System	нттр
Security 🔻	1st HTTP server
Network 🔻	1st HTTP user name
DDNS	1st HTTP password
Mail	2nd HTTP server
FTP	
НТТР	2nd HTTP user name
Application	2nd HTTP password
Motion detection	Save
Storage management	
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	
Software upgrade	
Maintenance	
< Back	

Please refer to: 9.8. Application: Send HTTP notification / 9.9. Motion Detection for HTTP Notification settings.

9.8. Application (Alarm Settings)

The IP Camera equips one alarm input and one relay output for cooperating with the alarm system to catch events' images. Refer to the alarm pin definition below to connect alarm devices to the IP Camera if needed. The alarm configuration page is also shown below.

Alarm Pin Definition : PIN 1: Output+ PIN 2: Output-PIN 3: Input+ PIN 4: Input-





Alarm Switch :

The Administrator can enable or disable the alarm function.

Alarm Type :

Select an alarm type, "Normal close" or "Normal open", that corresponds with the alarm application.

Alarm Output :

Define alarm output signal as "high" or "low" for the normal alarm output status according to the current alarm application.

Triggered Action (Multi-option) :

The Administrator can specify alarm actions that will take place when motion is detected. All options are listed as follows:

- Enable Alarm Output:

Select the item to enable alarm relay output.

- Send Alarm Message by FTP/E-Mail:

The Administrator can choose to send an alarm message by FTP and/or by E-Mail when a motion is detected.

- Upload Image by FTP:

Select this item, and the Administrator can assign a FTP site and configure various parameters as shown in the figure below. When the alarm is triggered, event images will be uploaded to the appointed FTP site.

GRUNDIG		
> System	Application	
System	Alarm Switch	
Security 🔻	● Off	
Network 🔻	Alarm Type	
DDNS	Normal close O Normal open	
Mail	– Alarm Output	
FTP	– Output high Output low	
	_ Triggered Action	
HTTP	Enable alarm output Record stream to sd card	
Application	Send message by FTP Send message by E-Mail	
Motion detection	Upload image by FTP	
Storage management	FTP address FTP1 🔻	11
Recording	Pre-trigger buffer 5 frames 👻	
File location	Post-trigger buffer 5 frames ▼	
	Continue image upload	
Iris adjustment	Upload for 1 sec	
View log file	O Upload during the trigger active	
View user information	Image frequence Max. 🔻 fps	
View parameters	Send HTTP notification	
Factory default	File Name	
Software version	- File name : image.jpg	
	Add date/time suffix	
Software upgrade	Add sequence number suffix (no maximum value) Add sequence number suffix up to 0 and then start over	
Maintenance		
< Back		-
	▲ III	•

- Record Stream to SD Card:

Select the item, and the alarm-triggered recording will be saved on your Micro SD card.



NOTE: Please make sure the local recording (with Micro SD/ SDHC card) is activated so that this function can be implemented. See section 9.12. Recording for further details.

- Upload Image by E-Mail:

Select this item, and the Administrator can assign an e-mail address and configure various parameters as shown in the figure below. When the alarm is triggered, event images will be sent to the appointed e-mail address.

GRUNDIG					
> System	Application				*
System	Alarm Switch				
Security 🔻	Off	On			
Network 🔻	Alarm Type				
DDNS	Normal close	Normal open			
Mail	Alarm Output				
FTP	Output high	Output low			
нтр	Triggered Action				
	Enable alarm output		Record stream		
Application	Send message by FT	P	Send message	-	_
Motion detection	Upload image by FTP		Upload image		
Storage management			E-Mail address		-
Recording			Pre-trigger but	and a second sec	
File location			Post-trigger b	uffer 5 frames	•
Iris adjustment			 Upload f 		
View log file				during the trigger active	
View user information			1070 10	ence Max. T fps	
	Send HTTP notification		Inage reque	nee [mani] ipa	
View parameters	File Name				
Factory default	File name : image.jpg				
Software version	Add date/time suffix				
Software upgrade	C Add sequence number		value)		
Maintenance	Add sequence number	er suffix up to 0	and then start over		
< Back	Overwrite				-
	•		111		+

NOTE: Make sure SMTP or FTP configuration has been completed. See section 9.5. Mail and 9.6. FTP for further details.

- Send HTTP notification:

Check this item, select the destination HTTP address, and specify the parameters for event notifications when <Alarm> is triggered. When an alarm is triggered, the notification can be send to the specified HTTP server.

GRUNDIG			
> System _{System}	Application Alarm switch		
Security 🔻	Off	On	
Network 🔻	Alarm type		
DDNS	Normal close	Normal open	
Mail	Alarm output		
FTP	Output high	Output low	
нттр	Triggered action		
Application	Enable alarm outpu		Record stream to sd card
Motion Detection	Send message by F		Send message by E-Mail
	 Upload image by FT Send HTTP notification 		Upload image by E-Mail
Storage Management	HTTP address	HTTP1 -	
Recording	Custom parameters		-
File Location	File name		
Iris Adjustment	File name : image.jpg		
View Log File	Add date/time suff Add sequence num	ix .ber suffix (no maximum va	
View User Information	Add sequence num		and then start over
View Parameters	Overwrite		
Factory Default	Save		
Software Version			
Software Upgrade			
Maintenance			
< Back			

File Name :

Enter a file name into the blank box, e.g. image.jpg. The uploaded image's file name format can be set in this section. Please select the one that meets your requirements.

- Add date/time suffix: File name: imageYYMMDD_HHNNSS_XX.jpg Y: Year, M: Month, D: Day H: Hour, N: Minute, S: Second X: Sequence Number

- Add sequence number suffix (no maximum value): File name: imageXXXXXX.jpg X: Sequence Number

Add sequence number suffix up to _ and then start over:
File Name: imageXX.jpg
X: Sequence Number

The file name suffix will end at the number being set. For example, if the setting is "10" the file name will start from 00, end at 10, and then start all over again.

- Overwrite:

The original image in the FTP site will be overwritten by the new uploaded file with a static filename.

Save :

After completing all the settings mentioned above, please click on the Save button to save all the settings in this page.

9.9. Motion Detection

The Motion Detection function allows detecting suspicious motion and triggering alarms when motion volume in the detected area reaches/exceeds the determined sensitivity threshold value.

GRUNDIG	
> System	Motion Detection
System	Motion Detection
Security 🔻	◎ Off ◎ On
Network 🔻	Motion Detection Setting
DDNS	Sampling pixel interval [1-10] 1
Mail	Detection level [1-100] 10
FTP	Sensitivity level [1-100] 80
нттр	Time interval(sec) [0-7200] 10
Application	Triggered Action
Motion detection	Enable alarm output high Motion Detection Windows add delete
	Record stream to sd card
Storage management	Send alarm message by FTP
Recording	Upload image by FTP Upload image by E-Mail
File location	File Name : image.jpg
Iris adjustment	Add date/time suffix
View log file	 Add date/ume suffix Add sequence number suffix (no maximum value)
View user information	\bigcirc Add sequence number suffix up to \bigcirc and then start over
View parameters	
Factory default	save
Software version	
Software upgrade	
Maintenance	
< Back	

In the Motion Detection setting page is a frame (Motion Detection Window) displayed in the Live View Pane. The Motion Detection Window is for defining the motion detection area. To change the size of the Motion Detection Window, move the mouse cursor to the edge of the frame and draw it outward/inward. Moving the mouse to the center of the frame can shift the frame to the intended location.

Up to 10 Motion Detection Windows can be set. Press the "Add" button under the Live View Pane to add a Motion Detection Window. To cancel a Motion Detection Window, move the mouse cursor to the selected Window, and click on the "Delete" button.

If the Motion Detection function is activated, the pop-up window (Motion) with indication of motion will be shown.



When motion is detected, the signals will be displayed in the Motion window as shown below:



Detailed settings of Motion Detection are described as follows:

Motion Detection :

You will be able to turn on/off Motion Detection in the System section: Motion Detection. The default setting is Off.

Motion Detection Setting :

Users can adjust various parameters of Motion Detection in this section.

- Sampling pixel interval [1-10]:

The default value is 10, which means the system will take one sampling pixel for every 10 pixel.

- Detection level [1-100]:

The default level is 10. This item is to set the detection level for each sampling pixel; the smaller the value, the more sensitive it is.

- Sensitivity level [1-100]:

The default level is 80, which means if 20% or more sampling pixels are detected as changing, the system will detect motion. The bigger the value, the more sensitive it is. Meanwhile, when the value is bigger, the red horizontal line in the motion indication window will be accordingly lower.

- Time interval (sec) [0-7200]:

The default interval is 10. This value is the interval between each detected motion.

Triggered Action (Multi-option) :

The Administrator can specify alarm actions that will take place when the alarm is triggered. All options are listed as follows:

- Enable Alarm Output:

Check the item and select the predefined type of alarm output to enable alarm relay output when motion is detected.

- Record stream to SD Card:

Select this item, and the Motion Detection recording will be stored on a Micro SD/SDHC card when motion is detected.

NOTE: Please make sure the local recording (with Micro SD/ SDHC card) is activated so that this function can be implemented. See section 9.12. Recording for further details.

- Send Alarm Message by FTP/E-Mail:

The Administrator can choose to send an alarm message by FTP and/or by E-Mail when a motion is detected.

- Upload Image by FTP:

Select this item, and the Administrator can assign a FTP site and configure various parameters as shown in the picture below. When a motion is detected, event images will be uploaded to the appointed FTP site.



- Upload Image by E-Mail:

Select this item, and the Administrator can assign an e-mail address and configure various parameters as shown in the picture below. When a motion is detected, event images will be sent to the appointed e-mail address.



- Send HTTP notification:

Check this item, select the destination HTTP address, and specify the parameters for event notifications when <Motion Detection> is triggered. When an alarm is triggered, the notification can be sent to the specified HTTP server.

Send HTTP notification			
HTTP address	HTTP1 ▼		
Custom parameters			

NOTE: Make sure SMTP or FTP configuration has been completed. See section 9.5. Mail and 9.6. FTP for further details.

File Name :

The uploaded image's filename format can be set in this section. Please select the one that meets your requirements.

Save :

Click the "Save" button to save all the Motion Detection alarm settings mentioned above.

9.10. Tampering

The Tampering Alarm function helps the IP Camera against tampering such as deliberate redirection, blocking, spray paint, and lens covering, etc. through video analysis and reaction to such events by sending out notifications or uploading snapshots to the specified destination(s).

GRUNDIG	
> System _{System}	Tampering Alarm Tampering alarm
Security 🔻	Off On
Network 🔻	Tampering duration
DDNS	Minimum duration 20 sec
Mail	Triggered action Enable alarm output High Record stream to sd card
FTP	Enable alarm output High Record stream to sd card Send message by FTP Send message by E-Mail
HTTP	Upload image by FTP Upload image by E-Mail Upload image by E-Mail
Application	Send HTTP notification
Motion Detection	File name
Tampering	File name : image.jpg
Storage Management	Add date/time suffix
Recording	\bigcirc Add sequence number suffix (no maximum value) \bigcirc Add sequence number suffix up to \bigcirc and then start over
File Location	
Iris Adjustment	[com]
View Log File	Save
View User Information	
View Parameters	
Factory Default	
Software Version	
Software Upgrade	
Maintenance	
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Detection of camera tampering is achieved by measuring the differences between the older frames of video (which are stored in buffers) and more recent frames.

Tampering Alarm :

You will be able to turn on/off the Tampering Alarm function in the Tampering Alarm setting page. The default setting is Off.

Tampering Duration :

The Minimum Tampering Duration is the time for video analysis to determine whether any camera tampering has occurred. Minimum Duration can also be interpreted as defining the Tampering threshold; longer duration represents a higher threshold. Settable Tampering Duration time range is from 10 to 3600 seconds.

Triggered Action (Multi-option) :

The Administrator can specify alarm actions that will take place when tampering is detected. All options are listed as follows:

- Enable Alarm Output:

Check this item and select the predefined type of alarm output to enable alarm relay output when tampering is detected.

- Record stream to SD Card:

Select this item, and the Tampering Alarm recording will be stored on a Micro SD/SDHC card when tampering is detected.

NOTE: Please make sure the local recording (with Micro SD/ SDHC card) is activated so that this function can be implemented. See section 9.12. Recording for further details.

- Send Alarm Message by FTP/E-Mail:

The Administrator can select whether to send an alarm message by FTP and/or E-Mail when tampering is detected.

- Upload Image by FTP:

Select this item, and the Administrator can assign a FTP site and configure various parameters as shown in the figure below. When tampering is detected, event images will be uploaded to the appointed FTP site.



NOTE: The capital letter A/M/R appearing in the very beginning of a name denotes the sort of the recording: A stands for Alarm; M stands for Motion; R stands for regular recording.

- Upload Image by E-Mail:

Select this item, and the Administrator can assign an e-mail address and configure various parameters as shown in the figure below. When tampering is detected, event images will be sent to the appointed e-mail address.

1	Upload image by E-Mail	
	E-Mail address	E-Mail 1 🔻
	Pre-trigger buffer	5 frames 🔻
	Post-trigger buffer	5 frames 🔻
	Continue image uploa	ad
	Opload for 1	sec
	Opload during the t	rigger active
	Image frequence Max.	▼ fps

NOTE: Make sure SMTP or FTP configuration has been completed. See section 9.5. Mail and 9.6. FTP for further details.

- Send HTTP notification:

Check this item, select the destination HTTP address, and specify the parameters for HTTP notifications. When the Tampering Alarm is triggered, the HTTP notifications can be sent to the specified HTTP server.

Send HTTP notification			
HTTP address	HTTP1 ▼		
Custom parameters			

File Name :

The uploaded image's filename format can be set in this section. Please select the one that meets your requirements.

Save :

Click the Save button to save all the Tampering Alarm settings mentioned above.

9.11. Storage Management

Users can store local recordings on a Micro SD/SDHC card up to 16 GB. This page shows the capacity information of the Micro SD card and a recording list with all the recording files saved on the memory card. Users can also format the SD card and implement automatic recording cleanup through the setting page.

To implement Micro SD card recording, please go to the "Recording" page (see 9.12. Recording) for activation.

NOTE: Please format the Micro SD/SDHC card when using it for the first time. Formatting will also be required when a memory card has already been used on one camera and was later transferred to another camera with a different software platform.

GRUNDIG				
> System	Storage Management			
System	Device information			
Security 🔻	Device type:	SD card		
Network 🔻	Free space:	0 KB	Total size:	0 KB
DDNS	Status:	No	Full:	No
Mail	Device setting	[[]		
FTP	Format device : Disk cleanup setting	Format		_
нттр	Enable automatic	disk cleanup		
Application	Remove recordings		1 day(s) 🔻	
Motion detection	Remove oldest rec	ordings when disk is:	85 % full	
Storage management	Save			
Recording	Recording list			
File location	FileName	Siz	ze	
Iris adjustment				
View log file				
View user information				
View parameters	Remove	Sort download		
Factory default				
Software version				
Software upgrade				
Maintenance				
< Back				

Device Information :

When users insert the Micro SD/SDHC card, the card information such as the memory capacity and status will be shown in the Device Information section. For the memory card being successfully installed, its status shall be shown in the "Device information" section in the Storage Management page.

Device Setting :

Press the "Format" button to format the memory card.

Disk Cleanup Setting :

Users can enable an automatic recordings cleanup by specifying the time and storage limits.

Recording List :

Each video file on the Micro SD/SDHC card will be listed in the Recording list as shown below. The maximum file size is 60 MB (60 MB per file).

If the recording modus is set to Always and at the same time the event recording (when a motion detection or an alarm takes place) is also turned on, in this case, when an event occurs, the event will be recorded first, afterwards the camera will return to normal recording mode.

When the recording mode is set to "Always" (consecutive recording) in the submenu "Recording" and the Micro SD/SDHC card recording is also allowed to be enabled when triggered by events, once the events occur, the system will immediately implement the recorded events to the memory card. After events recording, the IP Camera will return to regular recording mode.

FileName			Size
M 20100514 14	2625.avi	3783 KB	^
M_20100514_14	2637.avi	3542 KB	
M 20100514 14	2648.avi	3873 KB	E
M 20100514 15	3014.avi	4357 KB	-
R 20070103 17		49634 K	3 -

- Remove:

To remove a file, select the file first, and then press the "Remove" button.

- Sort:

Press the "Sort" button, and the files in the Recording list will be listed in name and date order.

- Download:

To open/download a video clip, select the file first, and then press the "download" button below the Recording list field. The selected file window will pop up as shown below. Click on the AVI file to directly play the video in the player or download it to a specified location.



9.12. Recording

In the Recording setting page, users can specify the recording schedule that fits the present surveillance requirement.

GRUNDIG	
> System _{System}	Recording Recording Schedule
Security 🔻	Oisable
Network v	© Always
DDNS	© Only during time frame
Mail	Sun Mon Tue Wed Thu Sat
FTP	Start time : 00:00 Duration : 00:00
НТТР	Save
Application	
Motion detection	
Storage management	
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	
Software upgrade	
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Activating Micro SD/SDHC Card Recording :

Two types of schedule mode are offered: "Always" and "Only during time frame". Users can setup the time frame to fit the recording schedule or choose "Always" to allow the Micro SD/SDHC Card Recording to be activated all the time.

Please click on the "Save" button to confirm the schedule mode.

Terminating Micro SD/SDHC Card Recording :

Select "Disable" to terminate the recording function.

9.13. File Location

Users can specify a storage location for the snapshots and the live video recording. The default setting is: C:\. Once the setting is confirmed, press "Save," and all the snapshots and recordings will be saved in the designate location.

NOTE: Please make sure the selected file path contains valid characters such as letters and numbers.

GRUNDIG				
> System	File Location			
System	Set the destination of snapsh	ot photos and recorded	video files	
Security 🔻	All files stored at:	C:\	Select	
Network v	Save			
DDNS				
Mail				
FTP				
нттр				
Application				
Motion detection				
Storage management				
Recording				
File location				
Iris adjustment				
View log file				
View user information				
View parameters				
Factory default				
Software version				
Software upgrade				
Maintenance				
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NOTE: Users with Windows 7 operating system need to follow the following procedure to be able to use the Snapshot and Recording function. First you need to log on to your computer as an Administrator. Then you go to Windows Start menu, click with the right mouse button on your Internet Browser and select in the appearing popup window "Run as Administrator". Afterwards you can log in to your camera as usual (as an administrator or user).

9.14. Iris Adjustment

For users who use an auto-iris lens, when it is required to undertake an iris adjustment, please refer to the iris adjustment procedure in the sub-menu Iris Adjustment to adjust the iris.

GRUNDIG	
> System	Iris adjustment
System	System will automatically adjust different auto iris lens. Follow below steps to adjust your auto iris lens.
Security 🔻	Step 1:
Network 🔻	Check if the auto iris lens is connected properly and adjust the lens focal length to the most
DDNS	wide angle of view
Mail	Step 2:
FTP	Shoot a high-brightness subject which will make the brightness of the whole screen uniform.
нттр	Step 3:
Application	Start the iris adjustment.
Motion detection	Start
Storage management	Start
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	
Software upgrade	
Maintenance	
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9.15. View Log File

Click on the link to view the system log file. The content of this file provides useful information about configuration and connections after system boot-up.

GRUNDIG	
> System	System log
System	[Sat Jan 20 00:50:00 2007]Network interface initialized start
Security 🔻	[Sat Jan 20 00:50:01 2007]Network interface initialized end [Sat Jan 20 00:50:01 2007]Host IP = 192.168.44.230
Network 🔻	[Sat Jan 20 00:50:01 2007]Subnet Mask = 255.255.255.0 [Sat Jan 20 00:50:01 2007]Gateway = 192.168.44.1
DDNS	[Sat Jan 20 00:50:01 2007]MAC address = 00:D0:89:06:B3:CF [Sat Jan 20 01:00:44 2007]connect by Admin@::ffff:192.168.55.10
Mail	[Sat Jan 20 01:01:37 2007]connect by Admin@::ffff:192.168.55.10 [Sat Jan 20 01:05:43 2007]connect by Admin@::ffff:192.168.44.13
FTP	[Sat Jan 20 01:06:29 2007]connect by Admin@::ffff:192.168.44.13
нттр	[Sat Jan 20 01:09:26 2007]connect by Admin@::ffff:192.168.44.13 [Sat Jan 20 01:11:41 2007]connect by Admin@::ffff:192.168.44.13
Application	[Sat Jan 20 01:16:41 2007]connect by Admin@::ffff:192.168.44.21 [Sat Jan 20 01:19:00 2007]connect by Admin@::ffff:192.168.44.11
Motion detection	[Sat Jan 20 01:19:05 2007]connect by Admin@::fff:192.168.44.11 [Sat Jan 20 01:19:20 2007]connect by Admin@::fff:192.168.44.11
Storage management	[Sat Jan 20 01:21:40 2007]connect by Admin@::ffff:192.168.44.11
Recording	[Sat Jan 20 02:21:54 2007]connect by Admin@::ffff:192.168.44.21 [Sat Jan 20 02:22:02 2007]connect by Admin@::ffff:192.168.44.21
File location	[Sat Jan 20 02:27:23 2007]connect by Admin@::ffff:192.168.44.21 [Sat Jan 20 02:27:54 2007]connect by Admin@::ffff:192.168.44.21
Iris adjustment	[Sat Jan 20 02:34:26 2007]connect by Admin@::ffff:192.168.44.21 [Sat Jan 20 02:34:45 2007]connect by Admin@::ffff:192.168.44.21
View log file	ÎSat 1an 20 02:35:23 20071connect hv Admin@: ffff:192 168 44 21
View user information	ч р
View parameters	
Factory default	
Software version	
Software upgrade	
Maintenance	
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9.16. View User Information

The Administrator can view each user's login information and their privileges (see section 9.2. Security).

View User Login Information :

All the users in the network will be listed in the "User Information" zone, as shown below. The picture below shows: User: 4321

> System	User Information		
System	admin:1234		
Security 🔻	User:4321		
Network 🔻			
DDNS			
Mail			
FTP			
нттр			
Application			
Motion Detection			
Tampering			
Storage Management			
Recording			
File Location			
Iris Adjustment			-
View Log File	4		Þ
View User Information		Get user information	
View Parameters		Get user privacy	
Factory Default			
Software Version			
Software Upgrade			
Maintenance			

This indicates that one user's login username is: User, and the password is: 4321

View User Privilege :

If you press "Get user privacy" at the bottom of the page, the Administrator will be able to view each user's privileges.

GRUNDIG	
> System	User Information
System	admin:1:1:1:1
Security 🔻	User:1:1:0:1
Network 🔻	
DDNS	
Mail	
FTP	
нттр	
Application	
Motion Detection	
Tampering	
Storage Management	
Recording	
File Location	
Iris Adjustment	
View Log File	۲. (۲. (۲. (۲. (۲. (۲. (۲. (۲. (۲. (۲. (
View User Information	Get user information
View Parameters	Get user privacy
Factory Default	
Software Version	
Software Upgrade	
Maintenance	
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As the picture above shows: User: 1:1:0:1 1:1:0:1 = I/O access : Camera control : Talk : Listen (see 9.2. Security)

☑ I/O access	🗹 Camera control
Talk	🗹 Listen

This denotes that the user has been granted the privileges of I/O access, Camera control and Listen.

9.17. View Parameters

Click on this item to view the entire system's parameter setting.

GRUNDIG	
> System	Parameter list
System	Mega Pixel Camera Initial Configuration File
Security 🔻	
Network 🔻	[Camera setting]
DDNS	exposure mode = <autoiris></autoiris>
Mail	min shutter speed = <8>
FTP	fixed shutter speed = <56>
нттр	white balance mode = <auto></auto>
Application	white balance rgain = <57>
Motion detection	white balance bgain = <54>
Storage management	brightness value = <128>
Recording	sharpness value = <0>
File location	contrast value = <64>
Iris adjustment	saturation = <64>
View log file	· · · · · · · · · · · · · · · · · · ·
View user information	
View parameters	
Factory default	
Software version	
Software upgrade	
Maintenance	
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9.18. Factory Default

The factory default setting page is shown below. Follow the instructions to reset the IP Camera to factory default setting if needed.



Set Default :

Click on the "Set Default" button to recall the factory default settings. Then the system will restart in 30 seconds.

NOTE: The IP address will be restored to default.

Reboot :

Click on the "Reboot" button, and the system will restart without changing the current settings.

9.19. Software Version

The current software version is displayed in the software version page, which is shown in the picture below.



9.20. Software Upgrade

Software upgrade can be carried out on the "Software Upgrade" page, as shown below.

GRUNDIG	
> System	Upgrade
System .	Follow These Steps To Do The Software Upgrade
Security 🔻	
Network 🔻	Step1:
DDNS	Upload the binary file
Mail	Browse
FTP	Step2:
HTTP	Select binary file you want to upgrade
Application	userland.jffs2 🔹
Motion detection	Step3:
Storage management	Click the upgrade button to start the upgrade process
Recording	
File location	Upgrade
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	
Software upgrade	
Maintenance	
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NOTE: Make sure the upgrade software file is available before carrying out the software upgrade.

The procedure of a software upgrade is as follows:

Step 1: Click "Browse" and select the binary file to be uploaded, e.g. Userland.jffs2.

NOTE: Do not change the upgrade file name, or the system will fail to find the file.

Step 2: Pull down the upgrade binary file list and select the file you want to upgrade; in this case, select "userland.jffs2".

Step 3: Press "Upgrade". The system will first check whether the upgrade file exists or not, and then begin to upload the upgrade file. Subsequently, the upgrade status bar will display on the page. When 100% is reached, the upgrade process is finished.

After the upgrade process is finished, the viewer will return to the Home page.

Step 4: Close the video browser.

Step 5: Click "Control Panel", and then double-click on "Add or Remove Programs." In the "Currently installed programs" list, select "GRUNDIG Viewer" and click the button "Remove" to uninstall the existing GRUNDIG Viewer.

Step 6: Open a new web browser, re-login the IP Camera, and then allow the automatic download of the GRUNDIG Viewer.

9.21. Maintenance

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

GRUNDIG	
> System	Maintenance
System	Export Files
Security 🔻	Export configuration files Export
Network	
DDNS	Upload Files Select configuration files Browse Upload
Mail	Select conliguration files browse Opioau
FTP	
НТТР	
Application	
Motion detection	
Storage management	
Recording	
File location	
Iris adjustment	
View log file	
View user information	
View parameters	
Factory default	
Software version	
Software upgrade	
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Export:

Users can save the system settings by exporting the configuration file (.bin) to a specified location for future use. Press the "Export" button, and the popup File Download window will come up as shown below. Click "Save" and specify a desired location for saving the configuration file.



Upload :

To copy an existing configuration file to the IP Camera, please first click on "Browse" to select the configuration file, and then press the "Upload" button for uploading.

10. Streaming Settings

Press the tab "Streaming" on the top of the page, and the configurable video and audio items will display in the left column. In Streaming, the Administrator can configure specific video resolution, video compression mode, video protocol, audio transmission mode, etc. Further details of these settings will be specified in the following sections.

10.1. Video Format

The video setting page is shown below:

GRUNDIG	
> Streaming	Video Format
Video Format	Video Resolution :
Video Compression	MJPEG + H.264 ▼
Video OCX Protocol	H.264 720p (25fps) + MJPEG 720p (25fps)
Video Frame Skip	◎ H.264 720p (25fps) + MJPEG D1 (25fps)
Video Mask	© H.264 720p (25fps) + MJPEG CIF (25fps)
Audio	© H.264 720p (25fps) + MJPEG VGA (25fps)
The second secon	© H.264 720p (25fps) + MJPEG QVGA (25fps)
< Back	Save
	Note :
	Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected.
	Text Overlay Settings :
	Include date Include time
	Include text string:
	Save
	Video Rotate Type :
	Normal video Flip video
	Mirror video 💿 180 degree rotate
	Save
	GOV Settings :
	H.264-1 GOV Length : 25
	H.264-2 GOV Length : 25
	Save
	Juve

Video Format :

Resolution for MJPEG & H.264 format includes: - H.264 720p (25fps) + MJPEG 720p (25fps) - H.264 720p (25fps) + MJPEG D1 (25fps) - H.264 720p (25fps) + MJPEG CIF (25fps) - H.264 720p (25fps) + MJPEG VGA (25fps) - H.264 720p (25fps) + MJPEG QVGA (25fps) For MJPEG & BNC: - MJPEG 720p (25fps) + BNC Output For MJPEG only: - MJPEG 1080p (12fps) - MJPEG SXGA (25fps) For H.264 & H.264: - H.264 720p (25fps) +H.264 D1 (25fps) - H.264 720p (25fps) + H.264 CIF (25fps) - H.264 720p (25fps) + H.264 VGA (25fps) - H.264 720p (25fps) + H.264 VGA (25fps) - H.264 720p (25fps) + H.264 QVGA (25fps Baseline) For H.264 & BNC: - H.264 720p (25fps) + BNC Output For H.264 only: - H.264 1080p (12fps) - H.264 SXGA (25fps)

Click "Save" to confirm the setting.

Text Overlay Settings :

Users can select the items to display data including date/time/text on the live video pane. The maximum length of the string is 18 alphanumeric characters.

Click "Save" to confirm the Text Overlay setting.

Video Rotation Type :

Users can change the video display type if necessary. Selectable video rotate types include Normal video, Flip video, Mirror video and 180 degree rotation. Differences among these types are illustrated below.

Suppose the displayed image of IP Camera is shown as the figure below.



To rotate the image, users can select "Flip video", for instance. Then the displayed image will be reversed as shown below.



The following are descriptions of different video rotation types.

- Flip video:

If select <Flip video>, the image will be rotated vertically.

- Mirror video:

If select <Mirror video>, the image will be rotated horizontally.

- 180 degree rotation:

Selecting <180 Degree rotation> will make the image 180° counter-/clockwise inversed.

Click "Save" to confirm the setting.

GOV Settings :

Users can set the GOV length to determine the frame structure (I-frames and P-frames) in a video stream for saving bandwidth. Longer GOV means decreasing the frequency of I-frames. Click "Save" to confirm the GOV setting.

10.2. Video Compression

Users can specify the values for MJPEG/H.264 compression mode in the video compression page (see the picture below), depending on the application.

MJPEG Compression Settings:

A higher value implies higher bit rates and a higher visual quality. The default setting is 35; the setting range is from 1 to 70.

Click "Save" to confirm the setting.

H.264-1 / H.264-2 Bit Rate:

The default setting is 4096 kbps; the setting range is from 64 to 8192 kbps. Click "Save" to confirm the setting.

in the second se	
GRUNDIG	
> Streaming	Video Compression
Video Format	MJPEG Compression setting :
Video Compression	MJPEG Q factor : 35
Video OCX Protocol	Save
Video Frame Skip	H.264-1 Compression setting :
Video Mask	H264-1 bit rate : 4096 kbit/s
Audio	Save
< Back	
	H.264-2 Compression setting :
	H264-2 bit rate : 4096 kbit/s
	Save
	Compression information setting :
	Display compression information in the home page
	Save
	CBR mode setting :
	🔲 enable H.264-1 CBR mode
	🔲 enable H.264-2 CBR mode
	Save

MJPEG Q (Quality) factor :

A higher value implies higher bit rates and a higher visual quality. The default setting of the MJPEG Q factor is 35; the setting range is from 1 to 70.

H.264-1 / H.264-2 bit rate : The default setting of H.264-1 / H.264-2 is 4096 kbps; the setting range is from 64 to 8192 kbps.

Display Compression Information :

Users can also decide whether to display compression information on the Home page. Click "Save" to confirm the setting.

CBR Mode Setting :

The CBR (Constant Bit Rate) mode can become the preferred bit rate mode if the bandwidth available is limited. It is important to take into account the image quality when you choose to use CBR mode. Click "Save" to confirm the setting.

GRUNDIG	
> Streaming Video Format	Video Compression MJPEG Compression setting :
Video Compression Video OCX Protocol	MJPEG Q factor : 35 Save
Video Frame Skip Video Mask	H.264-1 Compression setting : H264-1 bit rate : 4096 kbit/s
Audio < Back	Save H.264-2 Compression setting : H264-2 bit rate : 4096 kbit/s Save
	Compression information setting : Image: Image Image Save Save
	CBR mode setting : enable H.264-1 CBR mode enable H.264-2 CBR mode Save

10.3. Video OCX Protocol

In the Video OCX protocol setting page, users can select RTP over UDP, RTP over TCP, RTSP over HTTP or MJPEG over HTTP, for streaming media over the network. In the case of multicast networking, users can select the Multicast mode. The Video OCX Protocol page is as follows:

GRUNDIG	
> Streaming	Video OCX Protocol
> Streaming Video Format Video Compression Video OCX Protocol Video Frame Skip Video Mask Audio < Back	Video OCX protocol setting : © RTP over UDP © RTP over RTSP(TCP) © RTSP over HTTP © MJPEG over HTTP © Multicast mode Multicast IP Address 0.0.0.0 Multicast H.264-1 Video Port 0 Multicast H.264-2 Video Port 0 Multicast H.264-2 Video Port 0 Multicast MJPEG Video Port 0 Multicast Audio Port 0 Multicast TTL 1 Save
	Note: This page only applies to video streams going to a GRUNDIG Viewer.

Video OCX protocol setting options include:

- RTP over UDP / RTP over RTSP (TCP) / RTSP over HTTP / MJPEG over HTTP (Select a mode according to your data delivery requirements.)

- Multicast Mode:

Enter all required data, including multicast IP address, H.264 video port, MJPEG video port, audio port and TTL into each blank.

Click "Save" to confirm the setting.

10.4. Video Frame Skip

Video frame skipping is for saving bandwidth if necessary. The setting page is shown below.

GRUNDIG	
> Streaming Video Format	Video Frame Skip
Video Compression	 No skipping, default Frame skipping at 2 frame internal
Video Frame Skip	© Frame skipping at 5 frame internal
Video Mask	Frame skipping at 10 frame internal
Audio < Back	© Frame skipping at 15 frame internal Save

Video Frame Skip options include:

- No skipping, default
- Frame skipping at 2 frame interval
- Frame skipping at 3 frame interval
- Frame skipping at 4 frame interval
- Frame skipping at 5 frame interval
- Frame skipping at 10 frame interval
- Frame skipping to 15 frame interval

Click "Save" to confirm the setting.

NOTE: Higher frame skipping rate will decrease video smoothness.

10.5. Video Mask

There are up to five video masks which can be set by the users.



Active Mask Function :

- Add a Mask:

Check a Video Mask checkbox, and a red frame will come out in the Live Video pane at the right side. Use the mouse to drag and drop in order to adjust the mask's size and place it on the target zone.

NOTE: It is suggested to set the Video Mask twice as big as the object.

- Cancel a mask:

Uncheck the checkbox of the Video Mask meant to be deleted, and the selected mask will disappear from the Live Video pane instantly.

Mask Setting :

- Mask colour:

The selection of Mask colours includes red, black, white, yellow, green, blue, cyan, and magenta.

- Type:

Select to change the mask type as solid or transparent.

Click "Save" to confirm the setting.

10.6. Audio

The audio setting page is shown below. In the Audio page, the Administrator can select one transmission mode and audio bit rate.

GRUNDIG	
> Streaming Video Format	Audio Transmission Mode:
Video Compression	© Full-duplex (Talk and listen simultaneously)
Video OCX Protocol	Half-duplex (Talk or listen, not at the same time) Since the formula of the same time
Video Frame Skip	© Simplex (Talk only) © Simplex (Listen only)
Video Mask	Disable
Audio	Server Gain Setting:
< Back	Input gain: 3 • Output gain: 3 • Bit Rate: ULAW • Save

Transmission Mode :

- Full-Duplex (Talk and Listen simultaneously):

In the Full-Duplex mode, the local and remote sites can communicate with each other simultaneously, i.e. both sites can speak and be heard at the same time.

- Half-Duplex (Talk or Listen, not at the same time):

In the Half-Duplex mode, the local/remote site can only talk or listen to the other site at a time.

- Simplex (Talk only):

In the Talk only Simplex mode, the local/remote site can only talk to the other site.

- Simplex (Listen only):

In the Listen only Simplex mode, the local/remote site can only listen to the other site.

- Disable:

Select the item to turn off the audio transmission function.

Server Gain Setting :

Set the audio input/output gain levels for sound amplification. The audio gain values are adjustable from 1 to 6. The sound will be turned off if the audio gain is set to "Mute".

Bit Rate :

Selectable audio transmission bit rate include 16 Kbps (G.726), 24 Kbps (G.726), 32 Kbps (G.726), 40 Kbps (G.726), uLAW (G.711) and ALAW (G.711). Both uLAW and ALAW signify 64 Kbps but in different compression formats. A higher bit rate signifies a higher audio quality and requires a bigger bandwidth. Click "Save" to confirm the setting.

11. Camera Settings

The picture below is the camera configuration page. Details of each parameter setting are described in the following subsections.



NOTE: Camera settings and function buttons may vary depending on the camera model.

11.1. Exposure Setting

The Exposure pull-down menu is as follows:



The exposure is the amount of light received by the image sensor and is determined by the width of lens diaphragm opening, the amount of exposure by the sensor (shutter speed) and other exposure parameters. With this item, users can define how the Auto Exposure function works.

Each exposure mode is specified as follows:

Full Auto Mode :

In this mode, the camera's Shutter Speed, IRIS and AGC (Auto Gain Control) control circuits work together automatically to get a consistent video output level. The shutter speed range is from 1 (1/1.5) to 1/30 (1/25) sec. with 6 (5) options. Users can select the suitable shutter speed according to the environmental luminance.

NOTE: The minimum shutter speed set in the Full Auto Mode will be applied to Auto Iris Mode.

Auto Iris Mode :

In this mode, the exposure gives priority to the auto iris. Shutter speed and AGC circuit will function automatically in cooperating with IRIS to get consistent exposure output.

NOTE: The minimum shutter speed will vary depending on the setting in Full Auto Mode.

Fixed Shutter Mode :

In this mode, a fixed shutter speed can be selected from the drop-down menu. The shutter speed range is from 1/10000 to 1 (1/1.5) sec. with 19 (18) options. Users can choose a suitable shutter speed according to the environmental illumination.

Press < \checkmark > to confirm the new setting.

11.2. White Balance Setting

The White Balance pull-down menu is as follows:

White Bala	nce	
Auto		
O ATW		
Manual		
Rgain:	57	[0127]
Bgain:	54	[0127]
		 Image: A start of the start of

A camera needs to find a reference colour temperature, which is a way of measuring the quality of a light source, for calculating all the other colours. The unit for measuring this ratio is in degree Kelvin (K). Users can select one of the White Balance Control modes according to the operating environment. The following table shows the colour temperature of some light sources for reference.

Light Sources :

Cloudy Sky (Colour Temperature: 6,000 to 8,000 K) Noon Sun and Clear Sky (Colour Temperature: 6,500 K) Household Lighting (Colour Temperature: 2,500 to 3,000 K) 75-watt Bulb (Colour Temperature: 2,820 K) Candle Flame (Colour Temperature: 1,200 to 1,500 K)

Auto Mode :

The Auto Balance White mode is suitable for an environment with a light source having a colour temperature ranging from 2700 ~ 7600K.

ATW Mode (Auto Tracing White Balance) :

With the Auto Tracking White Balance function, the white balance in a scene will be automatically adjusted while temperature colour is changing. The ATW Mode is suitable for environments with a light source having a colour temperature in the range roughly from 2450 ~ 10500K.

Manual Mode :

In this mode, users can change the White Balance value manually via specifying R-Gain and B-Gain; the range of R/B-Gain is from 0 to 255.

Press < $\sqrt{}$ > to confirm the new setting.

11.3. Brightness Setting

Users can adjust the image's brightness by adjusting the item. To increase video brightness, select a bigger number.

Press < \checkmark > to confirm the new setting.



11.4. Sharpness Setting Sharpness Setting

Increasing the sharpness level can make the image look sharper; it especially enhances the object's edges. Press < \checkmark > to confirm the new setting.



11.5. Contrast Setting

The camera image contrast level is adjustable; please choose from a range of -6 to +19. Press $< \sqrt{>}$ to confirm the new setting.



11.6. Saturation Setting

The camera image saturation level is adjustable; please select from a range of -6 to +19. Press < $\sqrt{}$ > to confirm the new setting.



11.7. Hue Setting

The camera image hue level is adjustable; please select from a range of -12 to +13. Press < \checkmark > to confirm the new setting.



11.8. IR Function

Auto/On/Off Mode :

With the IR cut filter, the Dome Camera can still catch a clear image at night time or in low light conditions.



For the camera with the built-in IR LED module, there will be three additional IR function modes as follows:

Light Sensor Mode : IR LED lights will be turned on/off depending on the light sensor.

Light On Mode : In this mode, IR LED lights will always be on.

Light Off Mode : In this mode, IR LED lights will always be off.

Press < \checkmark > to confirm the new setting.

11.9. TV System Setup

Select the video format that matches the present TV system. Press < \checkmark > to confirm the new setting.



12. Logout

Press the tab "Logout" at the top of the page, and the login window will pop up. This permits login with another user name.



13. CMS Software Introduction

The Central Management System (CMS) software bundles the IP cameras into one system. Offering powerful functionalities via intuitive interface, it is a centralized monitoring solution for your video surveillance equipments.

It gives the user access to monitor multiple IP Cameras, and allows the user to simultaneously monitor 16 sites per group (up to 10 groups) within several clicks.

For further information on CMS software, please refer to the supplied CD.

NOTE: The free bundle CMS is a function-limited software. For additional features, please purchase a licensed CMS.



14. Internet Security Settings

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

Internet Security Level : Default

Step 1: Start the Internet Explorer (IE).

Step 2: Select <Tools> from the main menu of the browser. Then Click <Internet Options>.

🖉 MSN.com - Windows Interne	et Explorer		
G V ktp://www.m	sn.com/?st=1	• 49	X Live Search
File Edit View Favorites	Tools Help		
😪 🕸 💘 MSN.com	Delete Browsing History	9	▼ 🔊 ▼ 🖶 ▼ 🔂 Page ▼ 🎯 Tools ▼ 🕨
Hotmail Messenger Bing	Pop-up Blocker Phishing Filter Manage Add-ons		1
msn	Subscribe to this Feed Feed Discovery F Windows Update	bing	Web Search
News Entertai	Diagnose Connection Problems Sun Java Console	Lifestyle More	Make MSN my homepage Set
Wednesday, May 26, 2010	Internet Options		

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



Step 4: Down the page, press "Default Level" (see the picture above) and click "OK" to confirm the setting. Close the browser window, and open a new one later when accessing the IP Camera.

ActiveX Controls and Plug-in Settings :

Step 1~3: Refer to the previous section above.

Step 4: Down the page, press "Custom Level" (see the picture below) to change ActiveX controls and plug-in settings.



The Security Settings screen is displayed as shown below:

ettings			
tantant surray	eX controls and plug-ins	0.000	^
	Allow previously unused ActiveX	controls to run	without prorr
5) Disable		
	Enable		
	Allow Scriptlets		
5) Disable) Enable		
	Prompt		
-	Prompt Automatic prompting for ActiveX	controls	
	Disable	concrois	
6	Enable		
and a second second	linary and script behaviors		
	Administrator approved		
() Disable		
(Enable		
	Vicnlay video and animation on a	wahnana that	door not use *
4			•
*Takes ef	fect after you restart Internet E	xplorer	
eset rustr	om settings		
eset to:	-		[
eset to:	Medium-high (default)	•	Reset
Sec (0.	Medium-high (default)	•	Reset

Step 5: Under "ActiveX controls and plug-ins", set ALL items (as listed below) to <Enable> or <Prompt>. Please note that the items may vary depending on the Internet Explorer version you are using.

ActiveX controls and plug-in settings:

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

Step 6: Click <OK> to accept the settings and to close the Security screen.

Step 7: Click <OK> to close the Internet Options screen.

Step 8: Close the browser window, and restart a new one later for accessing the IP Camera.

15. GRUNDIG Viewer Download Procedure

The procedure of GRUNDIG Viewer software download is specified as follows:

Step 1: In the GRUNDIG Viewer installation page, click "Next" for starting the installation.



Step 2: Setup starts. Please wait for a while until the loading bar runs out.

	GRUNDIG Viewer - InstallShield Wizard				
Installing GRUNDIG Viewer The program features you selected are being installed.					
17	Please wait while the InstallShield Wizard installs GRUNDIG Viewer. This may take several minutes. Status:				
InstallShield —	< Back Next > Cancel				

Step 3: Click "Finish" to close the GRUNDIG Viewer installation page.



Then, the IP Camera's Home page will display as follows:



NOTE: Please note that the function buttons may vary depending on the camera model.

16. Install UPnP Components

Please follow the instructions below to install UPnP components. (The procedure is for Windows XP, for other systems please refer to the corresponding manuals.)

Step 1: Go to "Start", click on "Control Panel", and then double-click on "Add or Remove Programs".



Step 2: Click on "Add/Remove Windows Components" in the Add or Remove Programs page.

😸 Add or Rem	ove Programs			- 0	×
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name		•
C <u>h</u> ange or Remove	🙂 µTorrent		Size	0.21MB	-
Programs	B Alky for Applications (Windows XP)		Size	2.65MB	
-	Atomic Alarm Clock 5.4		Size	5.14MB	
Add New	CCleaner (remove only)		Size	0.98MB	
Programs	🛱 Gadget Installer		Size	0.41MB	
F	🧐 IconPackager		Size	88.62MB	E
Add/Remove	100 IZArc 3.81		Size	9.30MB	
<u>W</u> indows Components	😹 Java(TM) 6 Update 5		Size	137.00MB	
components	🕫 Microsoft .NET Framework 1.1				
	詞 Microsoft .NET Framework 2.0 Service Pack 2		Size	185.00MB	
Set Program	B Microsoft .NET Framework 3.0 Service Pack 2		Size	178.00MB	
Access and Defaults	Microsoft .NET Framework 3.5 SP1		Size	28.22MB	
	B Microsoft Office 2007 Recent Documents Gadget		Size	0.46MB	
	B Microsoft Office Professional Edition 2003		Size	204.00MB	
	😼 Microsoft User-Mode Driver Framework Feature Pack 1.0				
	聞 Microsoft Visual C++ 2005 Redistributable		Size	5.21MB	1
	🚳 Microsoft Windows		Size	3.77MB	. 8
	Open Command Prompt Shell Extension				
	提 PL-2303 USB-to-Serial		Size	1.04MB	
	Renesas Flash Development Toolkit (v4.05)		Size	78.67MB	-

Step 3: Select "Networking Services" from the Components list in the Windows Components Wizard window, and then click "Details".

indows Components You can add or remove com	ponents of Windows XP.		
	ent, click the checkbox. A sh installed. To see what's inclu		
MSN Explorer		20.7 MB	
💌 🚉 Networking Services		0.3 MB	
Sector and the sector of the s	nd Print Services	0.0 MB	
🗌 🔄 Other Network File a			1000
 □ ≣) Other Network File a ☑ (◯ Outlook Express) 		0.0 MB	
	ates	0.0 MB 0.0 MB	Ŧ
Outlook Express Emilia End Certification	ates ety of specialized, network-rela	0.0 MR	¢
Outlook Express Emilia End Certification		0.0 MR	

Step 4: Select "UPnP User Interface" in the Networking Services' subcomponents list and then click "OK".

Network	ing Services				x
of the compo		ient, click the check b talled. To see what's in ing Services:			
1		evice Discovery and C	ontrol Client	0.0 MB	
Peer-	이 이 것이 많았는 것 같아? 것	n ja de side juit 1990 de jares		0.0 MB	
🗆 🧸 RIP L	_istener			0.0 MB	
	le TCP/IP Servi	ices		0.0 MB	
	User Interface			0.2 MB	
Description: Total disk spa	network. Also	s in My Network Place , opens the required W 56,5 MB		ts.	•
Space availa		14365.1 MB		<u>D</u> etails	
Shace availa	DIE UN UISK.	14303.1 MD	ПК	Canaal	
				Cancel	

Step 5: Click "Next" in the Windows Components Wizard page.

Windows Components Wiza	rd	
∀indows Components You can add or remove comp	onents of Windows XP.	Ľ
To add or remove a compone part of the component will be Details.		
Components:		
MSN Explorer		20.7 MB 🔺
Networking Services		0.3 MB
Other Network File and Print Services		0.0 MB
Call Outlook Express		0.0 MB
Indate Boot Certificates		0.0 MB 👻
Description: Contains a varie	ty of specialized, network-rela	ted services and protocols.
Total data and a second	56.5 MB	
Total disk space required:	00.01.10	Details
Space available on disk:	14365.2 MB	
	< Back	Next > Cance

Step 6: Click "Finish" to complete the installation.



Image Sensor	1/2.5" CMOS Aptina, 2 megapixel	
Pixels - total	1920(H) x 1080(V), Full HD	
Sensitivity	0.2 lux @ F1.2	
Lens Drive Type	Auto iris, DC	
Lens Focal Length	3.3 ~ 12 mm	
Viewing Angle	71° ~ 21°	
Motion Detection	On/ Off/ Sensitivity/ Area setting	
Privacy zones	2 zones, rectangle	
White Balance	ATW, AWB, Manual	
Shutter Speed	1 sec to 1/10,000 sec	
Camera ID	20 character	
Alarm Inputs	1	
Alarm Outputs	1	
Web Browser	MS Internet Explorer 6.0 (or higher)	
Number of Clients	Up to 20 users	
Video Compression	Dual stream: H.264+H.264, H.264+MJPEG, MJPEG+BNC or H.264+BN	
Video Resolution	Full HD 1920 x 1080 (12 fps), 720P 1280 X 720 (25 fps)	
Network Protocol	IPv4, IPv6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, 802.1X and SNMP	
SD memory	Micro SD/SDHC	
Alarm Event	Alarm Input, Motion Detection or Schedule: Image transfer or alarm message by FTP, Image transfer or alarm message by E-mail, recording on SD-card, enable alarm output and send HTTP notification	
Audio Compression	G.726 ADPCM, G.711	
_ED Indicator	Power, link, active	
/ideo Outputs	1Vpp, BNC	
Input/Output sockets	Video Out(BNC), Power(3-Pin Term), RJ-45, Micro SD Card Slot, Alarn Terminal 4-Pin (Alarm In 2-Pin, Alarm Out 2-Pin), Audio (4-Pin)	
Firmware Upgrade	Firmware upgrade by Web Browser	
Configuration	Upload & Download configuration on remote PC	
Protection Rating	IP66	
Operating Temperature	-10°C ~ +50°C	
Humidity	10 ~ 90% no condensation	
Regulation	CE, FCC, RoHS Compliant	
Supply Voltage	12 VDC / 24 VAC / PoE IEEE 802.3af	
Power Consumption	5.5 W	
Weight	0.8 kg	
Dimensions (wxhxd)	Ø 151 x 130.5 mm	
Specifications GCI-K0322V		
Sensitivity	0.2 lux @ F1.4 (Colour) / 0.02 lux @ F1.4 (B&W)	
Max. IR Distance	15/25 m (according to scene reflexion)	
Power Consumption	8.9 W	
Weight	0.8 kg	
Dimensions (wxhxd)	Ø 151 x 130.5 mm	



EC Declaration of Conformity

GCI-H0522V GCI-K0322V 720P HD IP Colour Fixed Dome Camera 1080P Full HD IP C/B&W AV Fixed Dome w/ IR LED

CE

It is hereby certified that the products meet the standards in the following relevant provisions:

EC EMC Directive 2004/108/EC Low Voltage Directive 2006/95/EC

Applied harmonized standards and technical specifications:

EN 55022 Class A (2006 + A1: 2007) EN 61000-3-2 (2006) EN 61000-3-3 (1995 + A1: 2001 + A2: 2005) EN 50130-4 (1995 + A1: 1998 + A2: 2003)

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