

User Guide

GU-CI-AC2614E	GU-CI-AC4614E
GU-CI-AC2614T	GU-CI-AC4614T

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Content

1	Overvie	ew5
	1.1 Rar	nge of Application5
	1.2 Prc	oduct Description5
	1.3 Op	erating Environment
2	Dev	ice Connection7
	2.1	Connecting to a PC7
	2.2	Connecting Through a Router/Switch7
3	Sett	ing the IP Address of an IPC using Device Config Tool8
4	Logi	in from Web Client9
	4.1	Accessing Camera from Web Client
	4.2	Login for the First Time
	4.3	General Login
	4.4	Recover Password 11
	4.4.2	1 Security Question Configuration
	4.4.2	2 Certificate of Authorization
	4.4.3	3 Super Code12
	4.5	Password Expire
5	Inst	alling Plug-in14
6	Live	View15
	6.1	Live View Menu
	6.2	Recording Status
7	Play	/back18
	7.1	General Playback
	7.2	Image Search
	7.3	Playback by Tag 20
	7.4	Smart

	7.5	AI		23
	7.5.3	1	Perimeter Intrusion & Line Crossing	23
	7.5.2	2	Intrusion	24
	7.5.3	3	Region Entrance	25
	7.5.4	4	Region Exiting	25
8	Rem	note	Setting	27
	8.1	Live	View	27
	8.2	Ima	ge Control	28
	8.3	Vide	eo Cover	31
	8.4	Rec	ord Parameters	31
	8.4.	1	Encode Parameters	31
	8.4.2	2	Record	32
	8.4.3	3	Capture	34
	8.5	Eve	nt Setup	35
	8.5.	1	Parameter Setup	35
	8.6.2	2 Ala	rm Setting	37
	8.6	AI		40
	8.6.3	1	Setup	40
	8.6.2	2	Alarm Setup	46
	8.7	Net	work Settings	47
	8.7.2	2	Email Configuration	48
	8.7.3	3	RTSP	49
	8.7.4	4	Dynamic Domain Name	50
	8.7.	5	HTTPS	51
	8.8	Dev	ice Management	51
	8.8.	1	Disk Management	51
	8.8.2	2	Audio Management	52
	8.9	Syst	em Settings	52

9	Local Set	tings	61
	8.9.4	System Information	60
	8.9.3	System Maintenance	56
	8.9.2	Multi-user Management	55
	8.9.1	General	53

Introduction

Thank you for purchasing a Grundig product. Before installing or connecting the product, please read first the following documents which you can find in printed form in the product package:

- Legal Disclaimer
- Safety Instructions
- Installation Manual and/or Quick Guide for the respective product model

Further information about the product like Data Sheets, CE Documents, etc. can also be found on our Web page <u>www.grundig-security.com</u>.

This User Guide is a manual for IP Cameras. Please see in the table of **Model Overview** the applicable models. Please read this User Guide carefully and retain it for future use.

Model Overview

This User Guide is for the following products:

GU-CI-AC2614E GU-CI-AC2614T GU-CI-AC4614E GU-CI-AC4614T

1 Overview

1.1 Range of Application

The network cameras with powerful image processing capacity may be applied at various public places such as mall, supermarket, school, factory and workshop, as well as in environments requiring HD video image such as bank and traffic control system, as shown below:



Figure 1.1 Application

1.2 Product Description

An IP camera is a digital online surveillance camera embedded with Web server and capable of independent operation, giving user access to real-time monitoring through web browser or client software from any place across the world.

IP camera is based on the latest digital solution, an integrated media processing platform for audio/video acquisition, compression and network transmission on a single board. It is in compliance with H.264/H265 High Profile encoding standards. Any remote user can have access to real-time monitoring by entering the IP address or domain name of the IP camera in web browser. This network camera solution is applicable to residential or business environments as well as a wide range of situations requiring remote network video monitoring and transmission. The IP camera products are easy to install and operate.

The IP cameras can be managed by several users with different authorization levels.

IP cameras allow mobile detection, and sends e-mail and snapshot taken in case of emergency and store the image or video snapshot in SD card for retrieval.



1.3 Operating Environment

System: Windows XP/Windows 7/ Windows 8/ Windows 10/ Windows 11/MacOS 10 or above.

CPU: Intel I3 or above

Memory: 2 GB or above

Video memory: 1 GB or above

Display: 1024×768 or above

Browsers: IE1.

2 Device Connection

An IP camera can be connected in two ways:

2.1 Connecting to a PC

Directly connect an IP camera to a PC through a network cable, connect the power input to the DC 12V adapter, and set the IP addresses of the PC and the IP camera on the same network segment. If the network is running properly, the IP camera will communicate with the PC within one minute after turned on.





2.2 Connecting Through a Router/Switch

This connection method is used when an IP camera is connected to the Internet where the IP camera and PC are connected to the LAN ports of a router/switch and the gateway of the camera is set to the IP address of the router.



Figure 2.2 Connecting with Router

3 Setting the IP Address of an IPC using Device Config Tool

Step 1. Run Device Config Tool , click Search to get the information of the IPCs in this LAN as shown in the figure below, and locate your desired IPC based the P2P or MAC address of the camera.

	GR	undi	G													? – X
5	Search	Upgra	de Conf	lig Strea	m Config	SD Config Reco	wery Import/Ex	port Reboot h	ange Passwor					Filtration	IP	×
	No.	IP	Media Port	Web Port	Channel	Device Name	Device Type	Device Version	Net Mask	Gateway	MAC	Network Mode	P2P ID	Status		
	1	<u>192.168.0.41</u>	9000	80	1	GU-CI-AP5647P	GU-CI-AP5647P	V40.45.8.2.4.1_240429	255.255.128.0	192.168.1.1	00-23-63-A4-BE-16	DHCP	J3LVFFRLZLL45			
	2	192.168.0.42	9000	80	16	GU-RN-AP8216N	GU-RN-AP8216N	V8.2.4.1-20240527	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-74	DHCP	37UBURBVHJ61			
	3	192.168.0.43	9000	80	1	GU-CI-AP5634T	GU-CI-AP5634T	V34.45.8.2.4_240509	255.255.128.0	192.168.1.1	A4-DA-22-A8-25-38	DHCP	4V31K5M7BZNG			
	4	192.168.0.48	9000	80	1	GU-CI-AP4634T	GU-CI-AP4634T	V30.45.8.2.4.1_240508	255.255.128.0	192.168.1.1	A4-DA-22-A8-25-22	DHCP	63JNLFTLLRZN			
	5	192.168.0.49	9000	80	1	GU-CI-AC5637V	GU-CI-AC5637V	V31.35.8.2.4_231228	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-4A	DHCP	AZGGGNL2H1Z			
	6	192.168.0.51	9000	80	1	GU-CI-AC8616V	GU-CI-AC8616V	V26.34.8.2.3_230419	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-66	DHCP				
	7	192 168 0 54	9000	80	8	GU-RN-AC8108P	GU-RN-AC8108P	V8.2.3.2-20231026	255.255.128.0	192.168.1.1	A4-DA-22-A8-0E-F4	DHCP	53UP43EZTBH3J			
	8	192.168.0.70	9000	80	1	IPCamera	IPCamera	V31.35.8.2.4_231229	255.255.128.0	192.168.1.1	A4-DA-22-A8-24-97	DHCP	B93F6W7MWW			
	9	192.168.0.72	9000	80	1	GU-CI-AC4634V	GU-CI-AP5647P	V43.45.8.2.4.1_240419	255.255.128.0	192.168.1.1	A4-DA-22-A8-1F-E3	DHCP	(61C8G3R7HEM			
	10	192.168.0.194	9000	80	1	GU-CI-AC5617T	GU-CI-AC5617T	V31.35.8.2.4.1_240425	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-25	Static	RFWKJ9WKTXA			
	11	192.168.0.196	9000	80	1	GU-CI-AP12617F	GU-CI-AP12617F	V21.45.8.2.4.1_240429	255.255.128.0	192.168.1.1	00-23-63-A6-D9-06	DHCP	'1P3SGT4EVFUT			
	12	192.168.1.250	9000	80	1	IP CAMERA	IP CAMERA	V31.35.8.2.4.1_240425	255.255.0.0	192.168.1.1	00-23-63-A4-BE-17	Static	YN6CRU4VH55			
	13	192 168 2 16	9000	80	1	GU-CI-AC5637E	GU-CI-AC5637E	V31.35.8.2.3_230325	255,255,255.0	192.168.2.0	A4-DA-22-A8-00-3A	Static				

Note: The default IP address of the camera is 192.168.0.100, the default username is admin.

Step 2. Select the corresponding device, enter your username and password, edit the corresponding network information, and click Modify to save changes.

Note: Change the Network Mode to DCHP to get the IP address if the current network supports DHCP.

No. Model Ref Web/Ref Web/Ref Device Yamo Device Yamo Met/Model Model Model <thm< th=""><th>earch</th><th>n Upgra</th><th>de Conf</th><th>ig Stream</th><th>n Contig</th><th>SD Config Reco</th><th>very (import/Eq</th><th>port Robool In</th><th>lange Passwor</th><th></th><th></th><th></th><th></th><th>Filtration</th><th>IP</th></thm<>	earch	n Upgra	de Conf	ig Stream	n Contig	SD Config Reco	very (import/Eq	port Robool In	lange Passwor					Filtration	IP
10 10 000 00 0 000 00 00 00 00 00 00 000 00 000 00 00 000 00 00 000 00 <t< th=""><th>0.</th><th>IP</th><th>Media Port</th><th>Web Port</th><th>Channel</th><th>Device Name</th><th>Device Type</th><th>Device Version</th><th>Net Mask</th><th>Gateway</th><th>MAC</th><th>Network Mode</th><th>P2P ID</th><th>Status</th><th></th></t<>	0.	IP	Media Port	Web Port	Channel	Device Name	Device Type	Device Version	Net Mask	Gateway	MAC	Network Mode	P2P ID	Status	
2 2 2 3 0	1	192.168.0.41	9000	80	1	GU-CI-AP5647P	GU-CI-AP5647P	V40.45.8.2.4.1_240429	255.255.128.0	192.168.1.1	00-23-63-A4-BE-16	DHCP	J3LVFFRLZLL45		
1 1 0	2	192.168.0.42	9000	80	16	GU-RN-AP8216N	GU-RN-AP8216N	V8.2.4.1-20240527	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-74	DHCP	17UBURBVHU61		
10 10 00 1 000-44481 000-84481		192.168.0.43	9000	80	1	GU-CI-AP5634T	GU-CI-AP5634T	V34.45.8.2.4_240509	255,255,128.0	192.168.1.1	A4-DA-22-A8-25-38	DHCP	evankom/bzivg		
10 10 00 00 0 00 00 0 00 00 0 00 00 0 00 00 0 00 00 0 00 00 0 00 00 0 00 00 0 00 00 0 00 00 0 00 00 0 00	1	192.108.0.48	9000	80		00-01-07-05341	GO-CPAP40341	100.45.0.2.4.1_240500	200.200.128.0	192,100.1.1	N+U+22+0-25-22	DHUP	SUNCE ILLERZA		
10 00 0 0 000000000000000000000000000000000000		192.108.0.49	9000	80	1	GU-CI-AC563/V	GU-CHACODATV	V3135.8.2.4_231228	200.200.128.9	182.108.1.1	A4-UA-22-A8-00-4A	DHOP	A2666412		
11 12 12 00 0 000000000000000000000000000000000000		100 100 0 54	1000	90			CU DN ACRIMER	V20.34.0.2.3_230419	200.200.128.0	102 105 1 1	APDA-22-48-00-00	DHOP	23(049577042)		
0 0		102 108 0 75	4000	e0	•	EComers	IDCamera	10.2.5.2.20251025	200200128.V	102 100 1 1	AA.DA.22.49.24.97	DHOP	303E6W7866W		
10 10 00 00 1 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 10 00 00 00 10 00 00 00 10 00 00 00 10 00 00 00 10 00 00 00 10 00 00 00 10 00 00 00 10 00 </td <td>0</td> <td>102 168 0 72</td> <td>9000</td> <td>80</td> <td>1</td> <td>CLUCLACARDAV</td> <td>CILCLAP5647P</td> <td>W3 45 8 2 4 1 240410</td> <td>255 255 128.0</td> <td>102 168 1 1</td> <td>44.D1.22.48.1E.E3</td> <td>DHCP</td> <td>S1C8G1R7HEM</td> <td></td> <td></td>	0	102 168 0 72	9000	80	1	CLUCLACARDAV	CILCLAP5647P	W3 45 8 2 4 1 240410	255 255 128.0	102 168 1 1	44.D1.22.48.1E.E3	DHCP	S1C8G1R7HEM		
NUMBER NUMER NUMER NUMER <td>10</td> <td>192 168 0 194</td> <td>9000</td> <td>80</td> <td>1</td> <td>GLICIACSA17T</td> <td>GLI-CharG617T</td> <td>V31358241240425</td> <td>255 255 128 0</td> <td>192 168 1 1</td> <td>A4-DA-22-48-00-25</td> <td>State</td> <td>REAKIRANTXA</td> <td></td> <td></td>	10	192 168 0 194	9000	80	1	GLICIACSA17T	GLI-CharG617T	V31358241240425	255 255 128 0	192 168 1 1	A4-DA-22-48-00-25	State	REAKIRANTXA		
ALIGNET MM A Out of Addition Microsoft (Addition of Addition of Additionof Addition	11	105 168 0 106	9000	80	1	CILCLAP12617E	CILCLAP12617E	V21458241240429	255 255 128 8	102 158 1 1	00.23.63.45.09.05	DHCP	1P3SGTAEVELT		
1 <u>102169211</u> 1000 90 1 GU-CH-CONTE GU-CH-CONTE 1/1115822_20025 255255255 112/18228 A4-0A-22-48-65-M State:	12	192 168 1 250	9000	80	1	IF CAMERA	IP CAMERA	V31358241240425	255 255 0 0	192 168 1 1	00-23-63-64-RE-17	State	NINGCRUMVHS5		
	+2	100 100 0 45	8000		1	011.01.005637E	01010056275	V21 26 8 2 2 220226	255 255 255 2	102 100 2.0	A4 DA 22 49 00 24	0110			

4 Login from Web Client

4.1 Accessing Camera from Web Client

Use Device Config Tool to search the IPCs in the current network. As shown in the following figure, directly click an IP address and use your IE browser to login to the corresponding camera.

GR	undi	G													? -
Search	Upgra	le Confi	g Stream	n Config	OSD Config Reco	very Import/Ex	port Rebool	nange Passwor					Filtration	IP	
No.	IP	Media Port	Web Port	Channel	Device Name	Device Type	Device Version	Net Mask	Gateway	MAC	Network Mode	P2P ID	Status		
1	192.168.0.41	9000	80	1	GU-CI-AP5647P	GU-CI-AP5647P	V40.45.8.2.4.1_240429	255.255.128.0	192.168.1.1	00-23-63-A4-BE-16	DHCP	J3LVFFRLZLL45			
2	<u>192.168.0.42</u>	9000	80	16	GU-RN-AP8216N	GU-RN-AP8216N	V8.2.4.1-20240527	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-74	DHCP	I7UBURBVHJ61			
] 3	<u>192.168.0.43</u>	9000	80	1	GU-CI-AP5634T	GU-CI-AP5634T	V34.45.8.2.4_240509	255.255.128.0	192.168.1.1	A4-DA-22-A8-25-38	DHCP	4V31K5M7BZNG			
4	192.168.0.48	9000	80	1	GU-CI-AP4634T	GU-CI-AP4634T	V30.45.8.2.4.1_240508	255.255.128.0	192.168.1.1	A4-DA-22-A8-25-22	DHCP	63JNLFTLLRZN			
) 6	192,168.0.49	9000	80	1	GU-CI-AC5637V	GU-CI-AC5637V	V31.35.8.2.4_231228	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-4A	DHCP	AZGGGNL2H1Z			
6	<u>192 168 0 51</u>	9000	80	1	GU-CI-AC8616V	GU-CI-AC8616V	V26.34.8.2.3_230419	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-66	DHCP				
7	192 168 0 54	9000	80	8	GU-RN-AC8108P	GU-RN-AC8108P	V8.2.3.2-20231026	255.255.128.0	192.168.1.1	A4-DA-22-A8-0E-F4	DHCP	S3UP43EZTBH3J.			
8	192.168.0.70	9000	80	1	IPCamera	IPCamera	V31.35.8.2.4_231229	255.255.128.0	192.168.1.1	A4-DA-22-A8-24-97	DHCP	393F6W7MWW			
9	<u>192.168.0.72</u>	9000	80	1	GU-CI-AC4634V	GU-CI-AP5647P	V43.45.8.2.4.1_240419	255.255.128.0	192.168.1.1	A4-DA-22-A8-1F-E3	DHCP	(61C8G3R7HEM			
) 10	192 168 0 194	9000	80	1	GU-CI-AC5617T	GU-CI-AC5617T	V31.35.8.2.4.1_240425	255.255.128.0	192.168.1.1	A4-DA-22-A8-00-25	Static	RFWKJØWKTXA			
11	192 168 0 196	9000	80	1	GU-CI-AP12617F	GU-CI-AP12617F	V21.45.8.2.4.1_240429	255.255.128.0	192.168.1.1	00-23-63-A6-D9-06	DHCP	1P3SGT4EVFUT			
12	<u>192.168.1.250</u>	9009	80	1	IP CAMERA	IP CAMERA	V31.35.8.2.4.1_240425	255.255.0.0	192.168.1.1	00-23-63-A4-BE-17	Static	NN6CRU4VH55			
J 13	192168218	8000	80	1	GU-CHACS637E	GU-CI-AC5637E	V1135823_22025	255.255.265.0	192.168.2.0	A4-D4-22-48-00-3A	State				
User Info			Device	info											
UserNar	ne admin I	Password	IP 19	2.168.0.41	Media Port 9000	Web Port 80	Gateway 192	168.1.1 Net Ma	sk 255.255.128.0	Net Mode DHCP					Modif

As an alternative, you can open your IE browser and type the following information into the address bar: HTTP://ip:web port. As shown in the figure above, the IP address of the device to be accessed is 192.168.0.41, the web port No.is 80, and the combined URL is http://192.168.0.41:80.

Note: In practical applications, the default HTTP access mode is port 80.

4.2 Login for the First Time

Firstly, access the camera from a web client, you need to set a password for the camera in order to complete the activation operation. The web client will display the screen as shown in Figure 4.2.1. Hover over the password entry box to prompt for the password requirement:

The length of the password should be 8~16 characters. It should contain at least two combinations of upper-case letters, lower case letters, numbers and special characters.

Password and username cannot be set the same.

	Pass	word	
New Password			
			۵
Password Strength			
Confirm Password			

Figure 4.2.1 Password

Set a new password and click OK to save your change. The web client will display the screen as shown in Figure 4.2.2. Users can open the corresponding recover password method by checking the box, or cancel the setting directly without checking the box, and do not enable the recover password function.

	Recover Password	
Security Question Configuration		
Security Question 1	Your father's name?	
Answer		
Security Question 2	Your mother's name?	
Answer		
Security Question 3		
Answer		
Certificate of authorization 3		
Super code(Not recommended)		
	OK Cancel	

Figure 4.2.2 Recover

① Security Question Configuration: To change the user password by question verification, check the Security Question Configuration, select three questions among 15 questions, and set the answers at a maximum length of 64 characters to recover your password.

(2) Certificate of authorization: To change the user password by using a certificate, check the Certificate of authorization, and click Export to download the certificate.txt file.

③ Super code (Not recommended): This method is to calculate a super code allowing to changing the user password by using the MAC address of the camera and camera time. You are not advised to enable this function as the MAC address of the camera is broadcast over the network, and the system time of the camera can be directly obtained when you login from the web client and use Super code to change the user password.



Note: Keep your verification information properly when the recover password function is enabled.

4.3 General Login

After accessing from the web client, you will be directed to the login screen as shown in Figure 4.3.1. Then, input your username and password, and click Login to access the operation screen. At the same time, you can select your desired language upon login.

E	NGLISH V
GRUND	IG
گ Username	
O Password	
Login	

Figure 4.3.1 Login

4.4 Recover Password

When the recover password function is enabled, if you forget the login information, you can click Recover Password to enter the Recover Password screen. You can check security question configuration, certificate of authorization, or super code upon first login to recover your password.

4.4.1 Security Question Configuration

You can change the user password by setting security questions on the Recover Password screen, as shown in Figure 4.4.1. Fill in the answers to security questions. You can directly change the user password.

	Recover Password	
Verification Mode	Security Question Verification	
Security Question 1		
Answer		
Security Question 2		
Answer		
Security Question 3		
Answer		
New Password		
Password Strength		
Confirm Password		
	OK Cancel	

Figure 4.4.1 security Questions

4.4.2 Certificate of Authorization

When you set security questions upon first login, you will be asked to download the certificate.txt when you choose to recover the user password by using Certificate of authorization. On the Recover Password screen, click the Recover Password and import the certificate.txt file to reset the password, as shown in Figure 4.4.2. Click Import and select the certificate.txt file. Then, enter a new password to change the user password.

Recover Password	
Security Question Ventication	
OK Caroot	
	Recover Passand Forum Johnson Werklandon Your Inden's name? Your mother's name? Your head waster's name is seeiner high sation? Concel Concel

Figure 4.4.2 Recover

4.4.3 Super Code

A super code is an insecure way to recover the password. The super code is calculated based on the MAC address of the camera and the time of the super verification code according to certain rules. Then the user password can be changed by entering the verification code.

	Recover Password	
Verification Mode	Super Code	
Super code		
New Password	Password carnot be emrited	
Password Strengt		
Confirm Password		
	OK Cancel	

Figure 4.4.3 Super Code

4.5 Password Expire

Security risks may arise if you use the same password for a long period of time. To this end, the program records the time when the password was changed last time. The system will ask you whether to change the password again if the current login time is 90 days later after the last password change time.

When you decide to change the password, the screen as shown in Figure 4.5.1 displays. As instructed on the screen, use your old password for verification and set a new password.



Passed New Passed New Passed Passed Streph Passed Streph Cortin Passed C			
Ner Passod Preset and te rep/ Passod Steph Lo Corden Passod Corden Passod Corden Cord		Password	
Paracet Streph Paracet Streph Corden Paracet Corde	New Password 🛛		
Peaced Samph Low Low Low Content Peaced Samph Low Low Content Peaced data and the same data an			
Continn Paramott	Password cannot be empty! Password Strength		
Contin Passod			= Low
Crost	Confirm Password		
CK Circl			
OK Canoel			
			Cancel

Figure 4.5.1 Password Expire



5 Installing Plug-in

An image can be normally previewed only when the plug-in is installed when you login from your IE browser. Download and install the plug-in as instructed on the screen as shown in Figure 5.1.1.

GRUNDIG	Live	Playback	Remote Setting	Local Settings	•
Mardhant Sudsteam Mobildream					8
Live video can be played only after the player player play in is installed. Download and install the player of you have installed the player.	restart your brows	rr. (Allow the player	in your browser.)		

Figure 5.1.1

6 Live View

6.1 Live View Menu

The web client enters the login live view upon login, as shown in the figure below.

Note: Features may differ depending on product models.



Figure 6.1 Live View

Stream switching menu: Switch the picture quality of the current live view at the upper left corner:

Main stream: HD picture, but higher requirements on bandwidth and PC performance.

Sub stream: Moderate requirements on bandwidth and PC performance, but lower picture quality when compared with main stream.

Mobile stream: Lowest requirements on bandwidth and PC performance, and lowest picture quality.

Main switching bar: Switches web function screens. The web client provides four menus: Live, Playback, Remote Setting, Local Settings.



Info: Displays the information about the active user, web version and plugin version.

	Ξ۰
Ľ,	D
•	-1

Color: Adjust current image settings, such as image saturation and sharpness.



Exit: Log out.

Recording & alarm status: Displays the alarm and recording status of the camera. For details, check Section 6.2.



Stop/Play: Play and stop the preview of the current stream.



6.2 Recording Status

The recording status is a simple presentation of the current alarm at the web client and indicates whether the recording is normal. A variety of alarms can be stored at a time, as described below:

No icon: The memory card functions are normal but no recording is executing.

R : camera is normal recording.

Note: When the camera is recording an alarm, the icon will disappear, but the normal recording process continues.

 $^{\sf H}\,$: The memory card is abnormal. Please check the memory card.

 $^{\sf M}\,$: A motion alarm is in progress but the motion alarm recording is not turned on.

 $^{\sf M}\,$: A motion alarm is in progress and the motion alarm recording is turned on.

An I/O alarm is in progress, but the I/O alarm recording is not turned on.

I : An I/O alarm is in progress, and the I/O alarm recording is turned on.

PIR : A PIR alarm is in progress, but the PIR alarm recording is not turned on.

PIR : A PIR alarm is in progress, and the PIR alarm recording is turned on.

S : An intelligent alarm is in progress, but the intelligent alarm recording is not turned on.

Note: Intelligent alarms include face, human, and vehicle alarms.

S : An intelligent alarm is in progress, and the intelligent alarm recording is turned on.

7 Playback

The camera not only need to be able to show us images in real time, but also save the image information so that we can call it up when needed.

7.1 General Playback

The playback function mainly includes general video search and AI search, as shown in the following figure.





1.Switch search mode: Switch search functions, as shown in the figure above. General is selected by default to search for general recording files. You can switch to AI image search by referring to the following part in this section.

2.Date: Set the date to search for recording files, click Search, you will be prompted with the dates with available recording files.

3.Search type: Displays the search types supported by the camera. You can search for only part of recording files as required.

4.Playback process bar: Display and search for recording files stored in the memory card according to search settings.



Pause/Play: Pause/play streams.





Forward by One Frame: Play one frame with one click.



Record: Manually record the stream in preview.

Capture: Manually capture the image of the current stream.

Download: Download the searched recording file. (Note: When downloading RF format records, a Pop-up window will ask if encryption is required. AVI and MP4 formats will not have a pop-up window.)

Information × Image: Do you need to encrypt the video file(s)? OK Cancel			
Do you need to encrypt the video file(s)? OK Cancel	Info	rmation	×
OK Cancel	Do you need to encry	pt the video file(s)?	
		ок Са	incel

Figure 7.1.2 Download info



Speed: Supports playing at a speed of 1/8,1/4,1/2,1, X2, X4, X8, X16.

心

Audio: Turn on/off or adjust stream sound.

Playback progress bar: The time bar on the bottom displays the current playback progress bar and playback progress in different colors based on the search results.



Digital Zoom: Zoom in a certain area of the stream.



Original Proportions: Displays the current live view in its original proportion.



Stretch: Displays the current live view in a way that stretches the display area.



Full Screen: Displays the playback stream in full screen. You can double-click the screen to enable or disable the function, and press Esc to exit the full screen mode.

Zooming in/out playback progress bar: By default, the progress bar displays the progress within 24 hours.By zooming in and out the progress bar, you can jump to the corresponding playback position more accurately. You can also use the mouse wheel to zoom in/out the progress bar.

7.2 Image Search

When the auto capture function is enabled, you can search and play pictures on this screen.



Figure 7.2.1 Image Search

1.Switch search mode: Switch the current search function. The current Search Mode is Picture.

2.Date: Set the date to search for pictures. By clicking Search, you will be prompted with the dates for which recording files are available.

3.Search time: Set the time to search for pictures, allowing users to search for pictures in a specific period of time.

4.Search type: Select the picture capture type you want to search for, or check "All Type" to select all pictures (Default select all).

5.Search: Click Search to start searching images.

6.Search Result Display Area: Displays the desired search results. Double-click on a picture will play the video after and before the picture.

7.Search results Flip: scroll through search results at the lower right corner.

7.3 Playback by Tag

This screen allows to view all previously added tags and edit, play back, or delete them.



GRUNDIG					L.	Live Playback	Remote Setting	Local Settings	! ()
Tag	No.	Name	Date	Time	Playback	Ed	t	Delete	
Start time		Тад	11/11/2022	00:00:02		e.		Û	
2022-11-11 00 : 00 : 00		Tag	11/11/2022	06.15.53				Û	
End time		Tag	11/11/2022	10:19.46					
2022-11-11 23 : 59		Tag	11/11/2022	10:41:53					
Keyword 0-20				•		•			
Search								к (1	/1>->

Figure 8.3.1 Playback Tag

1.Switch search mode: Switch the current search function. The current Search Mode is Tag.

2.Start time: Set the start time to search for tags.

3.End time: Set the end time to search for tags.

4.Keyword: Search for tags with keywords.

5.Search: Click Search to start searching.

6.Search Result Display Area: Displays the desired search results.

Click the button to playback events, click the *b*utton to change event name, click the Save button to

display the Modify Success prompt dialog box, and click the button to delete this event.

7.Search results Flip: Scroll through search results at the lower right corner.

7.4 Smart

Login from a browser without the need of plugin to start smart playback, as shown in the figure below:



Figure 7.4.1 Smart Playback

This function can identify whether an alarm is triggered by human in daily life. If yes, the alarm will be shown in blue in the playback time bar on the bottom.

1. Switch search mode: Switch the current search function. The current Search Mode is Smart.

2. Date: Set the date to search for smart events. By clicking Search, you will be prompted with the dates for which recording files are available.

3. Search time: Set the time for searching for events.

4. Search type: Displays the search types supported by the camera. You can search for only part of recording files as required.

- 5. Search: Click Search to start searching.
- 6. Search Result Display Area: Displays the desired search results.



Pause/Play: Pause/play streams.



Stop: Stop playing streams.



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Capture: Manually capture the image of the current stream.



Speed: Supports playing at a speed of 1/8,1/4,1/2,1, X2, X4, X8, and X16.



Audio: Turn on/off or adjust stream sound.



Add Default Tag: Add default tags. Mark the video playback start time at the current time in the current channel and click this icon to add tags.

Add Tag: Add custom tags. When you click this icon to add a tag, a custom window will appear and you can specify a name for this tag.



Digital Zoom: Zoom in a certain area of the stream.



Original Proportions: Displays the current live view in its original proportion.



Stretch: Displays the current live view in a way that stretches the display area.

Full Screen: Displays the playback stream in full screen. You can double-click the screen to enable or disable the function, and press Esc to exit the full screen mode.

7.5 AI

7.5.1 Perimeter Intrusion & Line Crossing

With the development of technology, Perimeter Intrusion & Line Crossing is not only compatible with the old method to alarm targets entering the warning area, but also adds Pedestrian and Vehicle detection function, which only alarms human or vehicle targets and records image or video information for easy search and viewing. The screen is shown in the figure below.



Figure 7.5.1 PI & LC Search

1.Switch search mode: Switch the current search function. The current search Mode is Perimeter Intrusion & Line Crossing.

2.Start time: Set the start time to search for Pedestrian and Vehicle images.

3.End time: Set the end time to search for Pedestrian and Vehicle images.

4.Vigilance: Select Perimeter Intrusion or Line Crossing or both as the capture method.

5.Detection Target: Select human or vehicle images as needed, or select both.

6.Search: Search for Pedestrian and Vehicle images according to search settings.

7.Search Result Display Area: Displays the desired search results. Double-click on a picture will play the video after and before the picture.

8.Search results Flip: Scroll through search results at the lower right corner.

7.5.2 Intrusion

When the camera enabled the Intrusion function, it will alarm the target that enters into the intrusion of the alert area. Record video or capture picture information for easy search and view. Its interface is shown in the following figure.





1.Switch search mode: Switch the current search function. The current Search Mode is Intrusion.

2.Start time: Set the start time to search for Intrusion snapshot.

3.End time: Set the end time to search for Intrusion snapshot.

4.Vigilance: Select Intrusion as the capture method.

5.Detection Type: Select Intrusion images as needed, or select both.

6.Search: Search for Intrusion images according to search settings.

7.Search Result Display Area: Displays the desired search results. Double-click on a picture will play the video after and before the picture.

8.Search results Flip: Scroll through search results at the lower right corner.

7.5.3 Region Entrance

When the camera enabled Region Entrance function, it will alarm the target that enters into the intrusion of the alert area. Record video or capture picture information for easy search and view. Its interface is shown in the following figure.



Figure 7.5.3 Region Entrance

1.Switch search mode: Switch the current search function. The current Search Mode is Region Entrance.

2.Start time: Set the start time to search for Region Entrance images.

3.End time: Set the end time to search for Region Entrance images.

4.Vigilance: Select Region Entrance as the capture method.

5.Detection Type: Select Region Entrance images as needed, or select both.

6.Search: Search for Region Entrance images according to search settings.

7.Search Result Display Area: Displays the desired search results. Double-click on a picture will play the video after and before the picture.

8.Search results Flip: Scroll through search results at the lower right corner.

7.5.4 Region Exiting

When the camera turns on Region Exiting function, Alarm triggered and detect targets leaving the guarded area. Record video or capture picture information for easy search and view. Its interface is shown in the following figure.

GRUNDIG				L	.ive	Playback	Remote Setting	Local Settings	0	↺
Region Exiting		1								
Start time										
2024/01/20	00 : 00 : 00	2								
End time										
2024/01/20	23 : 59 : 50	3								
Vigilance										
Region Exiting *	4									
Detection Target				(7)						
Pedestrian × +2				<u> </u>						
Seal	ch 🔴	6						8 x 1 1		

Figure 7.5.4 Region Exiting

1.Switch search mode: Switch the current search function. The current Search Mode is Region Exiting.

2.Start time: Set the start time to search for Region Exiting images.

3.End time: Set the end time to search for Region Exiting images.

4.Vigilance: Select Region Exiting as the capture method.

5.Detection Type: Select Region Exiting images as needed, or select both.

6.Search: Search for Region Exiting images according to search settings.

7.Search Result Display Area: Displays the desired search results. Double-click on a picture will play the video after and before the picture.

8.Search results Flip: Scroll through search results at the lower right corner.

8 Remote Setting

8.1 Live View

On the Live view, you can set channel name, device time, CC, as well as statistical data and image covering. The view is shown in the figure below.





Name: Set the channel name of the camera displayed on the OSD.

Date Format: Set the date format of the camera displayed on the OSD, including MM/DD/YYYY, YYYY-MM-DD, and DD/MM/YYYY.

Time Format: Set the hour format of the camera on the OSD, including 12-Hour and 24-Hour.

Flicker Control: Set the image refresh rate, including 60 Hz and 50 Hz, corresponding to N and P respectively.

Show Name: Set whether to display channel name on images.

Show Time: Set where to display channel time on images.

OSD Self-adaptive: The OSD font color of the camera time and channel name is self-adaptive. The color switches between white and black based on the image background to ensure clear display.

Channel Name Display Location: Set the location where the channel name appears by dragging its location on the image.

Time Display Location: Set the location where the channel time appears by dragging its location on the image.

Alarm Statistic Display Location: Set the location where alarm statistic appears by dragging its location on the image. This setting is available only when the alarm statistic display function is enabled.

Save: Save the current changes.

Refresh: Refresh parameters on the current view.

8.2 Image Control

Image control is to directly control and modify graphic parameters, such as color to black mode, wide dynamic range, backlight compensation, etc. The view is shown in below figure.

GRUNDIG					Live	Playback	Remote Setting	Local Settings	
P Channel	Image Control								
Live Image Control Video Cover ROI	Image Setting	Full Color Mode		and the second second	and the second second		2		
B Record	White Light	Automatic mode		P. Landing		6			
Encode Record Capture	Sensitivity			- GNUIDIG-	MANY//				
Event				E P C B					
	Corridor Mode	Disable		EX PN	MY AND		i.		
() AI	Angle Adjustment			- July - th	2184	A. 60			
Setup Recognition Alarm Statistics		Disable					ž I		
(i) Network	Exposure Compensation	Disable							
General Email FTP RTSP DONS HTTPS	White Balance	Automatic mode	A A	0	A market	14.			
IP Filter Platform Access	Shutter	Automatic mode							
Device	Time Exposure								
Lost 1 Made	Delog Mode								
System General Multi-User Maintenance Information	3D Noise Reduction	Automatic mode							
	Save De	lad Refeet							

Figure 8.1.2 Image Control

GRUNDIG						Live	Playback	Remote Setting	Local Settings	0
P Channel	Image Control									
Live Image Control Video Cover ROI	image Setting	Day/Night Mode		4	V c	mera 11-03 14	26.57	1.		â
B Record	IR-CUT Mode	Image		-	10000					- 1
Encode Record Capture	IR CUT Sensitivity 🗨			A	1000066					- 1
Event	IR-LED	Manual			1002540	TT LERG				- 1
Setup Alam	Low Beam Light		100							- 1
() Al	High Beam Light		•100		1000 C					- 1
Alarm Statistics	Advanced				100000					- 1
(a) Network	Corridor Mode	Disable		5			-			- 1
General Email FTP RTSP DONS HTTPS	Angle Adjustment			A	1000					- 1
IP Filter Platform Access	Mirror	Disable								- 4
Device	Exposure Compensation	Disable								
Disk Audio	White Balance	Automatic mode								
System General Multi-User	Shufter	Automatic mode								~

Figure 8.1.3 IR-settings

GRUNDIG					Live Playback	Remote Setting Local Settings	• •
P Channel	Image Control						
Live Image Control Video Cover ROI	Image Setting Advanced	Smart Illumination	~ •	Camera		ove-11-01 163820	
B Record	Corridor Mode	Disable				1803 h. 1	
Encode Record Capture	Angle Adjustment			10280		BERRY .	
Setup Alarm	Mirror	Disable				STATISTICS.	
Ø AI	Exposure Compensation	Disable				ERGEN A	
Setup Recognition Alarm Statistics	White Balance	Automatic mode					
(a) Network	Shutter	Automatic mode		-			
General Email FTP RTSP DDNS HTTPS	Time Exposure						
IP Filter Platform Access	3D Noise Reduction	Automatic mode					
Device	Save Det	ault Refresh					
System General Mutti-User Maintenance Information							

Figure 8.1.4 Image Settings

28 English

Image Setting: Set camera mode. There are three mode options.

Full Color Mode: The camera works in Full Color Mode.

Day/Night Mode: The camera works in Day/Night Mode.

Smart Illumination: In this mode, when the camera triggers an alarm in night vision mode, it will link with the warm light to fill in the light, and the image will be in color. The camera will return back to night mode after the alarm ends.

White Light: Set the fill-in light for the white light in Full Color Mode. There are four mode options.

Automatic mode: In Automatic Mode, the camera automatically adjusts the intensity of the fill-in light according to ambient illumination.

Manual: In Manual Mode, the fill-in light is applied on the environment with a fixed brightness value.

Schedule: In Schedule Mode, the white light is automatically switched on and off for fill-in as scheduled.

OFF: Disable the white light.

Sensitivity: Sensitivity 0-3. The degree to which the camera is sensitive to ambient light. The higher the value is, the higher the sensitivity is.

Light Distance: Ranging from 0 to 100 and used to adjust the brightness of the fill-in light. The higher the value is, the higher the brightness is.

IR-CUT Mode: Set the day/night switching mode of the camera in Day/Night Mode.There are five mode options.

Auto: Automatically controls the Switching mode. Among them, color to b/w is judged by images and b/w to color is judged by light sensitivity to ambient light.

Day: Forced Color mode will not be switched to b/w.

Night: Forced B/W mode will not be switched to color.

Image: Similar to the Auto Mode, color to black and black to color are judged by images (for non-photosensitive models).

Schedule: Switch between b/w and color as scheduled. If this function is enabled, the start time and end time for night vision shall be set.

IR-LED: Set the fill-in light effect of the IR light at night vision. There are three mode options.

SmartIR: Intelligently control the fill-in light intensity of the IR light according to focal length and overexposure condition.

Manual: Manual Mode in which the fill-in light is applied in the form of the set brightness of the IR light.

OFF: No fill-in light is applied for any light.

Low/High Beam Light: manually adjust the first group IR light brightness (0 to100, of which 0 indicates that the IR light is off and 100 indicates the highest brightness).

High Beam Light: Manually adjust the second group IR light (Only support by varifocals camera) brightness (0 to100,

of which 0 indicates that the IR light is off and 100 indicates the highest brightness).

Angle Trad: Image rotation setting. The camera is reverse to the presetting in some usage scenarios. For example, the camera is designed to be hung upside down, but in practice it is used flatwise. Set this value to adjust the image.

Mirror: Set the mirror mode to adjust the picture effect. There are four mode options.

Disable: Disable the Mirror Mode.

Vertical: Set the Mirror Mode in the vertical direction to interact the image on the picture up and down.

Horizontal: Set the Mirror Mode in the horizontal direction to interact the image on the picture left and right.

All: Enable Vertical and Horizontal at the same time. The effect is similar to that of 180° rotation, but the implementation principle is different.

Exposure Compensation: Set firmware performance when backlight. There are four mode options.

DWDR: Digital wide dynamic range in which the picture is uniformly balanced based on the setting and both light and dark areas can be clearly distinguished.

HLC: Highlight compensation in which the objects in the highlighted area are clearer in the picture (applicable for some models).

Back Light: Backlight compensation in which the objects in the dark area are clearer.

Disable: An image will not be optimized with backlight on.

White Balance: White balance is a measure of the accuracy of white produced by mixing red, green, and blue. There are two mode options.

Automatic mode: Adjust the white light using default parameters.

Manual: Actively set the synthetic gained white light of red, green, and blue.

Shutter: Set the shutter exposure time. There are two mode options.

Automatic mode: The program automatically selects a proper exposure time according to the Time Exposure setting.

Manual: Allows to directly use the Time Exposure setting.

Note: Deselect the flickerless option of the exposure time in shutter manual mode, and select the option in shutter auto mode. If you switch the shutter to manual mode, the exposure time is switched automatically to 1/100 or 1/120.

Time Exposure: Set the exposure time of the camera and use this parameter in combination with Shutter. When the exposure time is too long, there may be overexposure. When the exposure time is too short, the picture may be dark.

3D Noise Reduction: Reduce image noise by setting this parameter to obtain a clearer picture. There are three mode options.

Automatic mode: In this mode, the camera will automatically select the noise reduction effect according to algorithms.

OFF: Disable the noise reduction function.

Manual: Allows to manually set the noise reduction coefficient to reduce image noise.

Save: Save parameter changes to an image.

Default: Restore image parameters to default settings.

Refresh: Refresh image parameters.

8.3 Video Cover

In practical applications, if areas that can be monitored by the camera are not suitable for monitoring and recording, you can use this function to occlude these areas. This feature will allow users to create 4 privacy zones of any size and location. The screen is shown in the figure below.

GRUNDIG	Live Playback Remote Setting Local Settings () (
P* Channel Video Cover Live Image Control Enable Video Cover Enable	GU-CI-AC4614E 13/11/2024 13/0514
B Record Save Refresh	
D Event Setup Alam	
⊘ Al Setup Alarm	
Network Ceneral Email RTSP DONS HTTPS	
Dek Audio	Delete



Enable: Enable the video tampering function.

Tampering Area Setting: Set the areas to be tampered in the monitoring screen. The tampered blocks are red while setting and will turn to black after they take effect. You can set four tampering blocks.

Delete: Delete selected tampering blocks.

8.4 Record Parameters

This menu allows to configure preview parameters and recording parameters.

8.4.1 Encode Parameters

This menu allows to configure the image quality for video recording or network transmission. In general, "Main Stream" defines the quality parameters of recorded videos that will be stored in the HDD, "Sub Stream" defines the

quality parameters of live videos that are remotely accessed from for example the web client and CMS, and "Mobile Stream" (can be turned off) defines the quality parameters of live views that are remotely accessed and viewed from mobile devices.

GRUNDIG					Live	Playback	Remote Setting	Local Settings	O
P ^{II} Channel	MainStream SubS	tream MobileStream							
Live Image Control Video Cover ROI	Resolution								
母, Record									
Encode Record Capture	Video Code Type								
Event	Video Code Level	Main Profile							
Setup Alarm	Bitrate Control								
Al Setup Recognition Alarm	Bitrate Mode	Predefined							
Statistics	Bitrate								
Network General Email FTP RTSP DDNS HTTPS IP Filter Platform Access	Audo Save Ro	ethesh							
Device									
System General Multi-User Maintenance Information									

Figure 8.4.1 Stream Settings

Resolution: This parameter defines the resolution of a recording image.

FPS: This parameter defines the frame rate of recording in your IPC.

Video Code Type: Channel decoding types. The options include H.264 and H.265.

Video Code Level: Video quality levels. The options include Bestline, Main Profile, and High Profile (for H.265, only Main Profile is available).

Bitrate Control: Select a bit rate level. For a simple scenario such as a plastered wall, a constant bit rate is preferred. For a complicated scenario such as a busy street, a variable bit rate is preferred.

Bitrate Mode: To manually set a bit rate, select the "Custom" Mode. To select a preset bit rate, select the "Preset" Mode.

Bitrate: This parameter corresponds to the data transmission speed used by the IPC to record a video. Recording in a higher bit rate will gain better image quality.

I Frame Interval: Set an I-frame interval. This option is only available in the IPC.

Audio: Select this option if you want to record both audio and video and connect your microphone to IPC or use a camera with audio capability.

8.4.2 Record

8.4.2.1 Record Parameters

This menu allows to set recording parameters.

GRUNDIG		Live	Playback	Remote Setting	Local Settings	•
P ^r Channel	Record Schedule					
Live Image Control Video Cover ROI	Stream Mode MainStream v					
음, Record	Record					
Encode Record Cepture	PreRecord					
Event Setup Alarm	Netreak 💽					
() AI	Save Refresh					
Setup Recognition Alarm Statistics						
() Network						
General Email FTP RTSP DDNS HTTPS IP Filter Platform Access						
Device						
Disk Audio						
System						
General Multi-User Maintenance Information						
-						

Figure 8.4.2.1 Record Parameter

Stream Mode: Select a Recording Mode, that is, video stream to be saved in the memory card. The main stream is selected by default.

Record: Select this option to start recording.

PreRecord: If this option is enabled, the IPC will start recording a few seconds before an alarm event occurs. This option is recommended if your main recording type is based on motion detection or I/O alarm.

Netbreak: If this option is selected, recording continues even when the network is disconnected or network failure occurs.

8.4.2.2 Schedule

This menu allows to specify when the IPC starting recording. You can set a recording plan in the recording schedule. The recording is performed only within the selected time period. You can drag your cursor to mark areas.



Figure 8.4.2.2 Record Schedule

8.4.3 Capture

8.4.3.1 Capture Settings

GRUNDIG		Live	Playback	Remote Setting	Local Settings	•
P Channel	Copture Capture Schedule					
Live Image Control Video Cover ROI	Normal Interval 10 Mm v					
B Record	Alarm Interval 1 Min 🗸					
Encode Record Capture	Auto Capture 💽					
Event Setup Alarm	See Retrot					
() AI						
Setup Recognition Alarm Statistics						
(@) Network						
General Email FTP BTSP DONS HTTPS						
IP Filter Platform Access						
Device						
Disk Audio						
System						
General Multi-User Maintenance Information						

Figure 8.4.3.1 Capture Settings

Normal Interval: Normal capture interval, used to specify the capture interval in normal recording.

Alarm Interval: Alarm capture interval, used to specify the capture interval when motion detection, I/O alarm, or PIR is triggered.

Auto Capture: Automatic capture.

8.4.3.2 Capture Schedule

This menu allows to specify when the IPC capture images. You can set a capture plan in the capture schedule. The capture is performed only within the selected time period. You can drag your cursor to mark areas.



Figure 8.4.3.2 Capture Schedule

Normal: When the area is marked green, the channel performs normal capture on the area in the corresponding time period.

Motion: When the area is marked yellow, the channel performs motion capture on the area in the corresponding time period.

IO: When the area is marked red, the channel performs I/O alarm capture on the area in the corresponding time period.

PIR: When the area is marked purple, the channel performs PIR alarm capture on the area in the corresponding time period.

No Capture: When the area is marked black, the channel will not perform capture in this time period.

8.5 Event Setup

8.5.1 Parameter Setup

8.5.1.1 Motion Detection

This menu allows to configure motion detection parameters. When motion is detected, a series of alarms will be triggered, such as sending an email alert with attached images from the camera (if this option is enabled) and a push notification via the app.



Figure 8.5.1.1 Motion

You can drag the left mouse button to delimit the detection area in the right window. An alarm will be triggered only when motion is detected in this area.

Enable: Enable or disable motion detection.

Sensitivity: Set the sensitivity of motion detection. The higher the value, the higher the sensitivity.

Target Detection: Intelligent motion detection. You can set the target detection type and area. The motion detected in the area can trigger an alarm. The detection type includes the following four options: Motion, Pedestrian, Vehicle and Pedestrian & Vehicle.

8.5.1.2 Deterrence

This menu allows to configure white light deterrence parameters when the camera supports white light and the image control is set to Day/Night Mode.When the alarm linking to deterrence is triggered, the white light will be automatically turned on for deterrence purpose as shown in the figure below:

GRUNDIG				Lh	e Playback	Remote Setting	Local Settings	0
₽ Channel	Motion Deterrence	Siren Sound Detection	Video Tampering					
Live Image Control Video Cover ROI	Light	•						
B Record	Duration		<u>(5 - 180)</u>					
Encode Record Capture	Deterrence Mode							
f Event	Warning Light	•••						
Setup Alarm	Warning Light Duration		<u>(</u> (5 ~ 180)					
@ AI								
Setup Recognition Alarm Statistics	Save De	fault Refresh						
. (a); Network								
General Email FTP RTSP DONS HTTPS IP Filter Platform Access								
Device								
Disk Audio								
System								
General Muti-User								

Figure 8.5.2.1 Deterrence

Note: When the camera supports white light and image control is set to Full Color Mode, the white light parameters such as **Light** become unavailable; when image control is set to Day/Night Mode, all parameters on this screen are available. When the image control is set to **Smart Illumination** mode, all parameters of this interface are grayed out and cannot be set.

Light: White light deterrence switch.

Duration: set the duration of white light deterrence.

Deterrence Mode: White light Deterrence Mode.There are two mode options:

Light Warning: The white light is steady on during deterrence.

Light Strobe: The white light blinks at a set frequency during deterrence.

Warning Light: Turn on or turn off warning light.

Warning Light Duration: Set the warning light duration.

8.5.1.3 Sound Detection

Set the response to **<u>8.6.1.2</u>** Sound <u>Detection</u>. An alarm will be triggered when the camera detects that the connected audio has changed and the requirement of alarm detection is met.

GRUNDIG		Live	Playback	Remote Setting	Local Settings	0
P Channel	Motion Deterrence Siren Sound Detection Video Tampering					
Live Image Control Video Cover ROI	Enzin					
Encode Record	Ree 500					
Event	Sound Internativ 50					
Setup Alarm	Decline C					
Al Setup Alarm Statistics	Decine Sensibility 50					
Retwork General Email FTP RTSP DDNS HTTPS IP Filter Platform Access	Sve Schooler Rehved					
Device Disk Audio						
System General Mutt-User Maintenance Information						

Figure 8.5.1.3.1 Sound Detection

Enable: enable or disable audio detection.

Rise: Volume rise switch. When this option is turned on, an alarm will be triggered only when the volume rises steeply.

Rise Sensitivity: Rise sensitivity. The higher the value, the easier it is to trigger an alarm.

Sound Intensity: Send sound intensity. This setting is the sound threshold. The larger the threshold, the louder the sound is required to trigger a rise alarm, and vice versa.

Decline: Volume decline switch. When this option is turned on, an alarm will be triggered only when the volume declines steeply.

Decline Sensitivity: Decline sensitivity. The higher the value, the easier it is to trigger an alarm.

Schedule: Set a sound alarm schedule. A sound alarm will be triggered only within the planned time.



Figure 8.5.1.3.2 Schedule

8.6.2 Alarm Setting

This menu allows to set the actions to be performed when an alarm is triggered.

8.5.1.4 Motion Detection

GRUNDIG		Live	Playback	Remote Setting	Local Settings	• ()
Live Image Control A	Motion I/O Sound Detection Video Tampering					
Encode Record Capture	Latch Time 5.5 V Post Recording 5.5 V					
Event	Send Email					
Al	Everi Push Pulsom					
Setup Recognition Alarm Statistics	uyk 💼					
() Network	Wam Light C					
RTSP DONS HTTPS IP Filter Platform Access	Sten FIP Picture Upload					
Device	FTP-Video Lipicoad					
System	Enable Record					
General Multi-User Maintenance Information	Save Schedule Retresh					

Figure 8.5.1.4.1 Motion

Post Recording: Set the duration of continuous recording after an event occurs. The options include 5s, 10s, 20s, and 30s. The default duration is 5s, but the maximum duration can be set to 30s.

Send Email: The device automatically send email when it detects motion.

Event push Platform: If this option is set to ON, this type of information will be pushed to the client when an alarm is triggered.

Light: If this option is set to ON, the white light will be turned on for deterrence when an alarm is triggered.

Enable Record: If this option is turned on, this kind of recording will be enabled when an alarm is triggered.

Schedule: Set the scheduled time when an alarm acts. A series of alarm actions are triggered only within the scheduled time.



Figure 8.5.1.4.2 Schedule

8.5.1.5 Sound Detection

GRUNDIG	Live Playback Remote Setting Local Settings
🖵 Channel	Motion Sound Detection
Live Image Control Video Cover	Post Recording 5 Sec v
₽ Record	Send Email
Encode Record	Event Push Platform
f Event	Enable Record
Setup Alarm	
AI	Save Schedule Refresh
Setup Alarm	
) Network	
General Email RTSP	
DDNS HTTPS	
🛄 Device	
Disk Audio	
⊗ System	

Figure 8.5.1.5.1 Sound Detection

Post Recording: Set the duration of continuous recording after an event occurs. The options include 5s, 10s, 20s, and 30s.The default duration is 5s, but the maximum duration can be set to 30s.

Send Email: The device automatically sends you an email when it detects a sound alarm.

Event push Platform: If this option is set to ON, this type of information will be pushed to the client when an alarm is triggered.

Enable Record: If this option is turned on, this kind of recording will be enabled when an alarm is triggered.

Schedule: Set the scheduled time when an alarm acts. A series of alarm actions are triggered only within the scheduled time.



Figure 8.5.1.5.2 Schedule

8.6 AI

8.6.1 Setup

To use the AI alarm function, enable the alarm function in the Setup menu. Enabling the function consumes the computing power of the camera. Due to the limited performance of the camera. Some AI functions are not supported to be turned on at the same time, please refer to the relevant restriction tips of the specific model.

8.6.1.1 Perimeter Intrusion

Perimeter intrusion detection. An alarm is triggered when a specific object enters or leaves the warning area.

GRUNDIG				Live Pla	ayback Remote Setting	Local Settings	• 🕛
🗗 Channel	PID LCD Ir	ntrusion Region Entrance	Region Exiting				
Live Image Control Video Cover	Enable	-			GU-CI-AC4614E 13/1	1/2024 13:13:21	
පු, Record	Sensitivity			 0	i i		
Encode Record	Detection Target	Pedestrian Motor Vehicle					
Event		Non-motorized Vehicle					
Setup Alarm	Rule Number				<u> </u>	8 A	
Al							
Setup Alarm	Rule Enable	•					
. (iiii); Network	Rule Type						
General Email RTSP					1		
DDNS HTTPS	Save	Refresh			X		
E Device					Delete Delete	All	
Disk Audio							
ঠি System							

Figure 8.6.1.1 Perimeter Intrusion

Enable: Turn on or off the perimeter intrusion alarm function.

Sensitivity: Filter small disturbing objects. The higher the sensitivity, the smaller the object can be detected.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Detection Target: Set objects for perimeter intrusion detection:

Pedestrian: An alarm is triggered when a pedestrian intrudes the perimeter.

Motor Vehicle: An alarm is triggered when a motor vehicle intrudes the perimeter.

Non-motorized Vehicle: An alarm is triggered when a non-motorized vehicle intrudes the perimeter.

Rule Number: Allows to select a rule line number. The PID function Allow to set four detection rule lines.

Rule Enable: Turn on or off rule lines. Each rule line has an independent enable switch that is associated with the currently selected Rule Number.

Rule Type: Specifies the rule to trigger rule lines. There are $A \rightarrow B$, $B \rightarrow A$, and $A \leftarrow A$ b line-crossing rules whose settings are related to the currently selected Rule Number.

Rule Line Setting Area: Allows to set and view edited rule lines.

Delete: Allow to delete selected rule Lines in the rule line setting area.

Delete All: Allow to delete all rule lines.

8.6.1.2 Line Crossing

Line-crossing detection function. An alarm is triggered when a specific object crosses the preset detection line.

GRUNDIG			Live	Playback Remote Setting	Local Settings 🌒 🕛
₽ Channel	PID LCD I	ntrusion Region Entrance Region Exiting			
Live Image Control Video Cover	Enable	-	840*640 19	GU-CI-AC4614E 13/11/2	024 13:1433
음, Record	Sensitivity		• 50		
Encode Record	Target Validity				1 / No. 1
Event	Min Pixel	64			N/ N/
Setup Alarm		640		(* <u></u>	
AI	Max Pixel	320 1080	1		
Setup Alarm	Detection Target	Z Pedestrian			
فَ) Network		Motor Vehicle			
General Email RTSP DDNS HTTPS		Non-motorized Vehicle			
	Rule Number				
Device	Rule Enable			Delete Delete All	
Disk Audio					
 System 	Rule Type	A<>B ∨			

Figure 8.6.1.2 Line Crossing

Enable: Enables the line-crossing detection function.

Sensitivity: The sensitivity is related to the percentage of the target that enters the area; the higher the sensitivity setting of Line Crossing, the more likely the alarm will be triggered. For example, if it is set to 100%, the alarm will be triggered when the detection target has just touched the boundary of the set area. If set to 50%, the alarm is triggered after 50% of the detection target has already crossed the boundary of the set area.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Target Validity: The similarity between the detection target and the set detection type.1 represents a similarity of 80% or more, 2 represents a similarity of 60% or more, 3 represents a similarity of 40% or more, 4 represents a similarity of 20% or more.

Min Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects lower than the setting in the view. When the mouse is moved to the progress bar, the right image preview shows the actual size of the pixel box. You can also drag the pixel box to set it. When the mouse is moved away for 5 seconds, the pixel box in the image preview disappears.

Max Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects greater than the setting in the view. When the mouse is moved to the progress bar, the right image preview shows the actual size of the pixel box. You can also drag the pixel box to set it. When the mouse is moved away for 5 seconds, the pixel box in the image preview disappears.

Detection Target: Set objects for perimeter intrusion detection:

Pedestrian: A perimeter intrusion alarm is triggered only for pedestrians.

Motor Vehicle: A perimeter intrusion alarm is triggered only for motor vehicles.

Non-motorized Vehicle: A perimeter intrusion alarm is triggered only for non-motorized vehicles.

Rule Number: Allows to select a rule line number. Allows to set four detection rule lines.

Rule Enable: Turn on or off rule lines. Each rule line has an independent enable switch that is associated with the currently selected Rule Number.

Rule Type: Specifies the rule to trigger rule lines. There are $A \rightarrow B$, $B \rightarrow A$, and $A \leftarrow A \rightarrow B$ line-crossing rules whose settings are related to the currently selected Rule Number.

Rule Line Setting Area: Allows to set, modify, and view edited rule lines.

Delete: Allows to delete selected rule Lines in the rule line setting area.

Delete All: Allows to delete all rule lines.

8.6.1.3 Intrusion

The function will detect whether there is an object in the video to invade the set restricted area. Linkage alarm according to the judgment result.

GRUNDIG				Live	Playback	Remote Setting	Local Settings	9 ()
Channel	PID LCD	Intrusion Region Entrance R	egion Exiting		GU	CI-AC4614E 13/1	1/2024 13 1507	
Video Cover	Time Threshold(s)		0	640 - 640				
Encode Record	Sensitivity		50			0		
Event Setup Alarm	Target Validity							
Al	Min Pixel	64	1080					
(a) Network	Max Pixel	320	1080					
General Email RTSP DDNS HTTPS	Detection rarget	Processinan Motor Vehicle Non-motorized Vehicle					7	
Device	Rule Number				1	Delete Delete	Al	
System	Rule Enable							



Enable: Enable the Intrusion detection function.

Time Threshold(s): Indicates that the alarm is generated after the target enters the alert area and stays there continuously for that amount of time. For example, if it is set to 1, the alarm will be triggered immediately after the target has invaded the area for 1s, and the maximum length of time can be set to 10s.

Sensitivity: The sensitivity is related to the percentage of the target that enters the area; the higher the sensitivity setting of Line Crossing, the more likely the alarm will be triggered. For example, if it is set to 100%, the alarm will be triggered when the detection target has just touched the boundary of the set area. If set to 50%, the alarm is

triggered after 50% of the detection target has already crossed the boundary of the set area.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Target Validity: The similarity between the detection target and the set detection type.1 represents a similarity of 80% or more, 2 represents a similarity of 60% or more, 3 represents a similarity of 40% or more, 4 represents a similarity of 20% or more.

Min Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects lower than the setting in the view. When the mouse is moved to the progress bar, the right image preview shows the actual size of the pixel box. You can also drag the pixel box to set it. When the mouse is moved away for 5 seconds, the pixel box in the image preview disappears.

Max Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects greater than the setting in the view. When the mouse is moved to the progress bar, the right image preview shows the actual size of the pixel box. You can also drag the pixel box to set it. When the mouse is moved away for 5 seconds, the pixel box in the image preview disappears.

Detection Target: Set objects for perimeter intrusion detection:

Pedestrian: A perimeter intrusion alarm is triggered only for pedestrians.

Motor Vehicle: A perimeter intrusion alarm is triggered only for motor vehicles.

Non-motorized Vehicle: A perimeter intrusion alarm is triggered only for non-motorized vehicles.

Rule Number: Allow to select a rule line number. Allow to set four detection rule lines.

Rule Enable: Turn on or off rule lines. Each rule line has an independent enable switch that is associated with the currently selected Rule Number.

Rule Line Setting Area: Allow to set, modify, and view edited rule lines. Supports setting the detection area of 3-8 sides

Delete: Allow to delete selected rule Lines in the rule line setting area.

Delete All: Allow to delete all rule lines.

8.6.1.4 Region Entrance

Region Entrance detection will detect targets entering the area from outside the area can be detected, and targets generated within the area will not generate an alarm, and the alarm will be linked according to the judgment result.

GRUNDIG		Live Playback Remote Setting Local Settings 😲 🖰
₽ Channel	PID LCD Intrusion Region Entrance Region Exiting	
Live Image Control Video Cover	Enable	GU-CI-AC4614E 13/11/2024 13:17/02
음, Record	Sensitivity 50	9
Encode Record	Target Validity 3 V	
Event	64 Min Pixel 64 1080	
Setup Alarm	640	
AI	Max Pixel 320 1080	
Setup Alarm	Detection Target 🛛 Pedestrian	
) Network	Motor Vehicle	
General Email RTSP	Non-motorized Vehicle	
DUNS HITPS	Rule Number 1 V	
Device	Rule Enable	Delete Delete All
Disk Audio		
System	Save Refresh	

Figure 8.6.1.4 Region Entrance

Enable: Enable the Intrusion detection function.

Sensitivity: The sensitivity is related to the percentage of the target that enters the area; the higher the sensitivity setting of Line Crossing, the more likely the alarm will be triggered. For example, if it is set to 100%, the alarm will be triggered when the detection target has just touched the boundary of the set area. If set to 50%, the alarm is triggered after 50% of the detection target has already crossed the boundary of the set area.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Target Validity: The similarity between the detection target and the set detection type.1 represents a similarity of 80% or more, 2 represents a similarity of 60% or more, 3 represents a similarity of 40% or more, 4 represents a similarity of 20% or more.

Min Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects lower than the setting in the view. When the mouse is moved to the progress bar, the right image preview shows the actual size of the pixel box. You can also drag the pixel box to set it. When the mouse is moved away for 5 seconds, the pixel box in the image preview disappears.

Max Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects greater than the setting in the view. When the mouse is moved to the progress bar, the right image preview shows the actual size of the pixel box. You can also drag the pixel box to set it. When the mouse is moved away for 5 seconds, the pixel box in the image preview disappears.

Detection Target: Set objects for perimeter intrusion detection:

Pedestrian: A perimeter intrusion alarm is triggered only for pedestrians.

Motor Vehicle: A perimeter intrusion alarm is triggered only for motor vehicles.

Non-motorized Vehicle: A perimeter intrusion alarm is triggered only for non-motorized vehicles.

Rule Number: Allow to select a rule line number. Allow to set four detection rule lines.

Rule Enable: Turn on or off rule lines. Each rule line has an independent enable switch that is associated with the currently selected Rule Number.

Rule Line Setting Area: Allow to set, modify, and view edited rule lines. Supports setting the detection area of 3-8 sides

Delete: Allow to delete selected rule Lines in the rule line setting area.

Delete All: Allow to delete all rule lines.

8.6.1.5 Region Exiting

Region exiting detection, can detect the target walking from the area to the outside of the area, and the target generated outside the area will not generate an alarm, and the alarm will be linked according to the judgment result.

GRUNDIG				Live	Playback	Remote Setting	Local Settings	•
₽ Channel	PID LCD	Intrusion Region Entrance	Region Exiting					
Live Image Control Video Cover	Enable	•		262 - 562 226 - 225	GU-(CI-AC4614E 13/1	1/2024 13:17:50	
멾, Record	Sensitivity		50			0		
Encode Record	Target Validity							
Event								
Setup Alarm	Min Pixel	64	1080					
🔿 AI	Max Pixel	320	1080					
Setup Alarm	Detection Target	Z Pedestrian						
. Network		Motor Vehicle						
General Email RTSP		Non-motorized Vehicle						
DDNS HTTPS	Rule Number							
Device	Bida Enabla	_				Delete Delete	IIA	
Disk Audio	Truce Enable							
System	Save	Refresh						

Figure 8.6.1.5 Region Exiting

Enable: Enable the Intrusion detection function.

Sensitivity: The sensitivity is related to the percentage of the target that enters the area; the higher the sensitivity setting of Line Crossing, the more likely the alarm will be triggered. For example, if it is set to 100%, the alarm will be triggered when the detection target has just touched the boundary of the set area. If set to 50%, the alarm is triggered after 50% of the detection target has already crossed the boundary of the set area.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Target Validity: The similarity between the detection target and the set detection type. 1 represents a similarity of 80% or more, 2 represents a similarity of 60% or more, 3 represents a similarity of 40% or more, 4 represents a similarity of 20% or more.

Min Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects lower than the setting in the view. When the mouse is moved to the progress bar, the right image preview shows the actual size of the pixel box. You can also drag the pixel box to set it. When the mouse is moved away for 5 seconds, the pixel box in the image preview disappears.

Max Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects greater than the setting in the view. When the mouse is moved to the progress bar, the right image preview shows the actual size of the pixel box. You can also drag the pixel box to set it. When the mouse is moved away for 5 seconds, the pixel box in the image preview disappears.

Detection Target: Set objects for perimeter intrusion detection:

Pedestrian: A perimeter intrusion alarm is triggered only for pedestrians.

Motor Vehicle: A perimeter intrusion alarm is triggered only for motor vehicles.

Non-motorized Vehicle: A perimeter intrusion alarm is triggered only for non-motorized vehicles.

Rule Number: Allow to select a rule line number. Allow to set four detection rule lines.

Rule Enable: Turn on or off rule lines. Each rule line has an independent enable switch that is associated with the currently selected Rule Number.

Rule Line Setting Area: Allow to set, modify, and view edited rule lines. Supports setting the detection area of 3-8 sides

Delete: Allow to delete selected rule Lines in the rule line setting area.

Delete All: Allow to delete all rule lines.

8.6.2 Alarm Setup

Alarm responses can be set to the camera's AI functions:

It includes Perimeter Intrusion, Line Crossing, Region Entrance, Region Exiting. Alarm response will be generated directly if alarm conditions are met as determined by the camera.

GRUNDIG		Live	Playback	Remote Setting	Local Settings	•
₽ Channel	PID LCD Intrusion Region Entrance Region Exiting					
Live Image Control Video Cover	Post Recording 5 Sec v					
Encode Record	Send Emeil Event Push Platform					
Event Setup Alarm	Light Coord					
Al Setup Alarm	Save Schedule Retresh					
Retwork General Email RTSP DDNS HTTPS						
Device						
System						

Figure 8.6.2 Alarm Settings

Post Recording: Specifies the duration of recording after the alarm is cleared.

Send Email: Specifies whether to send an email when an alarm is being triggered.

Event push Platform: If this option is set to ON, this type of information will be pushed to the **client when** an **alarm is triggered.**

Light: White light deterrence switch. When an alarm is triggered, the alarm is reported in accordance with the warning light configuration on the Deterrence screen (GUI path: Remote Setting > Event > Setup > Deterrence). Note: Only some models support White light).

Enable Record: Specifies whether to enable Post Recording.

8.7 Network Settings

This menu allows to configure the network parameters. In most cases, the network type is DHCP unless the static IP address is set manually. Basic Settings

8.7.1.1 General

GRUNDIG			Liv	e P	1ayback	Remote Setting	Local Settings	• •
P Channel	General PPPoE	SNMP IEEE802.1X Port Config	ration					
Live Image Control Video Cover IROI	DHCP	•						
B Record	IP Address		Test					
Encode Record Capture	Subnet Mask							
Event	Gateway							
Setup Alarm	IPv6 DHCP	•						
Al Setup Recognition Alarm	IPv6 Address	\$e80-223.63#5e0a.9015						
Statistics IPv	IPv6 Gateway	%80-223.63#540a:901b64						
Oeneral Email FTP	DNS 1							
RTSP DDNS HTTPS IP Filter Platform Access	DNS 2							
Device	IPv6 DNS 1	2001:4860-4860:8888						
Disk Audio	IPv6 DNS 2	2001:4860:4860:8844						
System General Multi-User	Muticast Main stream	•						
Maintenance Information	Multicast Address	239.255.255.255	(224.0.0.0-239.255.255.255)					
	Video Encryption Trans	mission						
		effesh						

Figure 8.7.1.1 General

To connect to a router that allows DHCP, check the DHCP box. The router will automatically assign all network parameters to the device. You can also choose to manually set the following parameters for the network:

IP Address: The IP address is the identifier of IPC on the network. It consists of four numbers between 0 and 255 separated by periods, for example, "192.168.001.100".

Subnet Mask: A subnet mask is a network parameter that defines the range of IP addresses that can be used in the network. If the IP address is likened to the street you live on, then the subnet mask is the community. A subnet address also consists of four numbers separated by periods, for example,"255.255.000.000".

Gateway: This address allows IPC to access the network. The format of a gateway address is the same as that of an IP address, for example, "192.168.001.001".

DNS1/DNS2: DNS1 is the active DNS server and DNS2 is the standby DNS server. Usually, you just need to enter the DNS1 server address.

Video Encryption Transmission: Indicates audio/video encryption transmission.

If the IPC is capable of warning, you of repeated IP addresses in the same network segment, when IP addresses are

repeatedly used, the following message will pop up when you click the **test** icon:

IP Address	172.020.058.037	⊗]	Test
	The address is used		
Subnet Mask	255.255.255.000	⊗	

8.7.1.2 Port Configuration

GRUNDIG		Live Playback Remote Setting Local Settings ()	Ċ
₽ Channel	General Event Push Platform Port Configuration		
Live Image Control	Server	Internal Port	5
Video Cover	HTTP Port	80	
ළ Record	HTTPS Port	443	
Encode Record	RTSP Port	554	
Event Setup Alarm	P2P Switch		
(*) Al Setup Alarm			
General Email RTSP DDNS HTTPS			

Figure 8.7.1.2 Port

Web Port: This is the port you use to remotely login to the IPC (for example, using a web client). If port 80 is already used by other applications, change the port number.

RTSP Port: The default port number is 554. If it is already used by other applications, change the port number.

HTTPS: It is an HTTP channel aiming for security. On the basis of HTTP, transmission encryption and identity authentication are used to ensure the security of transmission.

P2P Switch: P2P is ineffective if this switch is turned off.

8.7.2 Email Configuration

This menu allows to configure email settings. Complete these settings if you want to receive system notifications via email when an alarm is triggered and your hard drive is full.

GRUNDIG			
P ^u Channel	Email Configuration		
Live Image Control Video Cover ROI	Email	-	
B Record	Encryption		
Encode Record Cepture	SMTP Port		
Event	SMTP Server		
Setup Alerm	Username		
	Password		
Statistics	Sender		
() Network	Receiver 1		
General Emoil FTP RTSP DDNS HTTPS	Receiver 2		
IP Filter Platform Access	Receiver 3		
Device	Interval		
Olak Audio			
General Mutti-User		Tost Refresh	
Maintenance Information			

Figure 8.7.2 E-Mail

Email: Enable or disable email.

Encryption: Enable this option if your email server requires SSL or TLS authentication. Set it to Automatic if you are not sure.

SMTP Port: Specifies the SMTP port number of the email server.

SMTP Server: Specifies the SMTP server address.

Username: Specifies your email address.

Password: Specifies your email password.

Receiver 1~3: Specifies the email address from which you want to receive event notifications from the IPC.

Interval: Specifies the interval between notification emails on the IPC.

To ensure that all settings are correct, click "**Test Email**". The system will send an email to your inbox. If you receive a test email, the configuration parameters are correct.

8.7.3 RTSP

Real Time Streaming Protocol (RTSP), RFC2326, is an application layer protocol in the TCP/IP protocol architecture. This protocol defines how one-to-many applications can efficiently transfer multimedia data over IP networks. You can view real-time images using a video player.

RTSP Enable: Enable or disable the RTSP. This protocol is available only when it is turned on.

Anonymous Login: Allow to login as an anonymous user. Authentication is not required for using this protocol if this option is turned on.

GRUNDIG		Live	Playback	Remote Setting	0
P ^e Channel	Rise				
Live Image Control Video Cover ROI	RTSP Enable				
B Record	Anonymous Login 💦 (No usemame or passeroid inquited)				
Encode Record Capture	Metadata Platform 🗣 None 🗸				
Event Setup Alarm	hniholdini Ingi (PP RugArlusting)(hasening)(hasening)(hasening) A. Oprain steam), Tjudi dheam), 2(mobile stream)				
© N	Save Rateo				
Setup Recognition Alarm Statistics					
(@) Network					
General Email FTP RTSP DONS HTTPS					
IP Filter Platform Access					
Device					
Diak Audio					
System General Multi-User					
Maintenance Information					

Figure 8.7.3 RTSP

8.7.4 Dynamic Domain Name

This menu allows to configure DDNS settings. DDNS provides a static address to simplify remote connection to the IPC.To use DDNS, you first need to sign up an account on the webpage of the DDNS service provider.

GRUNDIG				Live	Playback	Remote Setting	• •
Channel	DONS						
Live Image Control Video Cover ROI	DONS	-					
B Record	Server						
Encode Record Capture	1000.000						
庄 Event	Username						
Setup Alarm	Password						
 Al Setup Recognition Alerm Statistics 		Test Rahush					
 (a): Network General Email FTP RTSP DONS HTTPS 							
IP Filter Platform Access							
Device							
Disk Audio							
System							
General Multi-User Maintenance Information							

Figure 8.7.4 DDNS

DDNS: Enable or disable DDNS.

Server: Specifies your preferred DDNS server (DDNS_3322, DYNDNS, NO_IP, or even CHANGEIP, DNSEXIT).

Hostname: Specifies the domain name you created on the web page of the DDNS service provider. This is the address you type in the URL bar when you want to connect remotely to the IPC from your PC.

User/Password: Specifies the username and password obtained when you create an account on the web page of the DDNS service provider.

Enter all parameters and then click "**Test DDNS**" to test DDNS settings. If the test result is "Unreachable or DNS error", check whether the network works normally or the DDNS information is correct.

8.7.5 HTTPS

GRUNDIG		Live	Playback	Remote Setting	90
P Channel	нтря				
Live Image Control Video Cover ROI	Cestificate Type Custom v				
B Record	Certificate not installed				
Encode Record Capture	Centifose				
Event					
Setup Alarm					
() Al					
Setup Recognition Alerm Statistics	Save Rebeak				
(a) Network					
General Email FTP RTSP DONS HTTPS IP Filter Platform Access					
Device					
Disk Audio					
System					
General Multi-User Maintenance Information					

This menu allows to set HTTPS. You can connect your device over HTTPS.

Figure 8.7.5 HTTPS

Certificate Type: There are two options, including default and custom. The Custom option Allow to connect devices using your own certificate.

Certificate: Select a custom certificate when the Custom option is selected.

Key: Select a custom key file when the Custom option is selected.

8.8 Device Management

8.8.1 Disk Management

This menu allows to check and configure the internal TF card. Formatting is required only for initial access and when a new TF card is used.

GRUNDIG					Live	Playback	Remote Setting	Local Settings
🖵 Channel	Disk							
Live Image Control Video Cover				N	o data available			
음 Record	Overwrite	Auto						
Encode Record	Save	Format Hard Disk	Refresh					
Event								
Setup Alarm								
AI								
Setup Alarm								
ف) Network								
General Email RTSP								
Device								
Disk Audio								



Figure 8.8.1 Disk Management

- **1.** Format Hard Disk: Select the TF card to be formatted, and then click Format TF Card. To start formatting, enter your username and password and then click OK.
- 2. Overwrite: This option to overwrite old records in the TF card when the TF card is full. If Auto is selected, the oldest data will be automatically overwritten when the TF card is full. Select OFF if you do not want to overwrite any old videos. If this function is disabled, check the status of the TF card periodically to ensure that the TF card is not full.

8.8.2 Audio Management

This menu is used to set the volume of your device.

GRUNDIG		Live	Playback	Remote Setting	Local Settings	• 🕛
₽ Channel	Audio					
Live Image Control Video Cover	Output Volume 7 v					
음. Record	Input Volume 7 ~					
Encode Record	Audio Code Type G711A V					
Event Setup Alarm	Save Refresh					
Al Setup Alarm						
 (i) Network General Email RTSP DDNS HTTPS 						
Disk Audio						

Figure 8.8.2 Audio Management

Enable Audio: Enable or disable camera audio.

Output Volume: Specifies the volume of output audio.

Input Volume: Specifies the volume of input audio.

Audio Code Type: Specifies the audio decoding type. There are two options, including G711A and G711U.

8.9 System Settings

You can change system information such as date and time and regions, and change the password and permissions.

8.9.1 General

8.9.1.1 Date and Time

GRUNDIG		Live	Playback	Remote Setting	• •
P ^u Channel	Date and Time Daylight Saving Time Privacy Statement				
Live Image Control Video Cover ROI	Time selling mode 🔹 Static 🌒 NTP server synchronication				
B Record	Date Format YYYY-MM-DD V				
Encode Record Capture	Time Zone 0MT+600 V				
Event	Time Format 24Hour v				
Setup Alarm	System time 2024-01-23 10 : 53 : 43				
Ø AI	Server Address time windows.com				
Setup Recognition Alarm Statistics					
8 H	Save Synchronize computer time Refresh				
(e) Network					
RTSP DONS HTTPS IP Filter Platform Access					
Disk Audio					
System					
General Multi-User Maintenance Information					

Figure 8.9.1.1.1 Date & Time

Time settings mode: There are two options including Static and NTP server synchronization. When Static is selected, you have to set the time manually. When NTP server synchronization is selected, the time will be synchronized to the network time.

Date Format: Specifies the date format.

Time Zone: Specifies the time zone associated with your region or city.

Time Format: Specifies your preferred time format.

System Time: Click the box to change the date and time.

Synchronize computer time: Here you can synchronize the time to the computer time.

You cannot set the time manually if NTP server synchronization is selected.

Sever Address: Specifies the automatic time synchronization website.

GRUNDIG				Live	Playback	Remote Setting	Local Settings	• ()
P ^I Channel	Date and Time Da	ylight Saving Time						
Live Image Control Video Cover ROI	Time setting mode	Static Static NTP server synchronization						
E Record	Date Format	Year-Month-Day						
Encode Record	Time Zone	GMT+8.00						
Event	Time Format	24Hour						
Setup Alarm	System time	2021-04-20						
() AI	Server Address time windows.com							
Setup Recognition Alarm Statistics								
(2) Maturat		chronize computer time Refresh						
General L Email L ETP								
RTSP DONS HTTPS								
IP Hitter								
Device								
Disk Audio Setting Cloud								
System								
General Multi-User Maintenance Information								

Figure 8.9.1.1.2

8.9.1.2 Daylight Saving Time

The Daylight-Saving Time (DST) function enables you to choose when to add daylight saving time to a specific time zone or region.

GRUNDIG		Live	Playback	Remote Setting	• •
P ^u Channel	Date and Time Daylight Serving Time Physics Statement				
Live Image Control Video Cover ROI	Deyfight Saving Time 🛛 🌑 🛛 Set by week. 🕒 Set by date				
B. Record	Start Time March • The 2nd • SUN • 14 : 05 : 00				
Encode Record Capture	End Time November V The fat V SUN V 14 : 00 : 00				
🕒 Event	Time Offset Histar V				
Setup Alarm					
Ø AI	Save Richtech				
Setup Recognition Alarm Statistics					
(a) Network					
General Email FTP					
IP Filter Platform Access					
Device					
Disk Audio					
System					
General Multi-User Maintenance Information					

Figure 8.9.1.2 Daylight Saving

Daylight Saving Time: Enable or disable this option if DST is used in your time zone.

Set by week: Specifies the month, weekday, and time when daylight saving time begins and ends, for example, 2:00am on the first Sunday of a month.

Set by date: Specifies the date and time when daylight saving time begins and ends.

Start Time / End Time: Specifies the start time and end time of daylight-saving time.

Time Offset: Specifies the time that daylight saving time adds to your time zone. This is the difference between Universal Time Coordinated (UTC) and your local time.

8.9.1.3 Privacy Statement

GRUNDIG						Live	Playback	Remote Setting	Local Settings) ()
Live Image Control	Date and Time D	aylight Saving Time	Privacy State	ement						
Video Cover ROI					Privacy S	tatement				
Record										
Encode Record Capture	"We" fully respect you carefully. If you have a	privacy rights. We he	reby formulate the	ils "Privacy Statement" (hereina	after referred to as "this Statement")	to inform you of how we collect, use	disclose, protect, sto	re, and transmit your person	al data. Please read this Staten	nent
Event										
Setup Alarm	Personal information r	eters to various inform	ation recorded ek	lectronically or otherwise that c	an identify the personal identity of a	natural person alone or in combinati	on with other informat	ion. This Statement sets out	how we handle your personal i	nformation,
	but it does not cover a	I processing scenarios	s. The products o	or services discussed, mentione	ed, or introduced in this Statement v	ny depending on your device type, r	nodel, or geographic l	ocation. How specific produc	ts or services handle your pers	onal
() AI	information, your right	s, and how to contact t	he data controller	r will be explained by us in the	specific privacy notice or supplement	tary statement published with that p	roduct or service. In a	ddition to this Statement, we	recommend that you read the	relevant
Setup Recognition	privacy notice or suppl	ementary statement w	hen using specifi	ic products or services.						
Alarm Statistics	This Statement applies	s only to our IPC series	s products and th	eir video surveillance-related s	ervices.					
5 ····	This Statement will he	p you understand the	following:							
() Network	I. How We Collect and	Use Your Personal In	formation							
General Email FTP	II. How We Entrust, St	sare, Transfer, and Dis	close Your Perso	onal Information						
RTSP DONS HTTPS	III. How We Protect Yo	our Personal Informatio	m							
IP Filter Platform Access	IV. How You Can Man	age Your Personal Infi	ormation							
Device	V. How This Statemen	t is Updated								
Disk Audio	I. How We C	ollect and U	se Your P	Personal Informat	tion					
@ System	1. Personal information	n We Collect								
and the second second	When you use IPC pro	iducts or services, you	may need to pro	wide personal information, and	we will only collect and use your pe	rsonal information for the purposes s	stated in this statemen	t. The following are example	es of the personal information w	e may
Maintenance Information	collect.									

Figure 8.9.1.3 Privacy

8.9.2 Multi-user Management

This menu allows to configure username, password, and permissions.

The system supports user types as follows:

ADMIN - **System Administrator:** A system administrator can fully configure the system and can change administrator and user passwords as well as enable/disable password protection.

USER - Normal User: A normal user can only access the preview, search, playback and other appropriate functions. You can set multiple users with different system access permissions.

Live Image Central Male Sourt No. 12 No. 1 12 1 2 12 2 3 13 Event 4 3 3 14 6 7 15 6 7	Username admin user1 user2 user3	Level ADMIN USER USER	Status Enable Otsable	Password 2	Policy
Veter (1) No. B2 Record 1 Encode (Record (Capture 2) 2 3 ID Event 4 Sette (Atam) 6 7 IO Alam 6 IO Alam 6	Username admin user1 user2 user2	Lavel ADMN USER USER	Status Enable Disable	Password 2	Policy
B. Record 1 Encode Record Capture 3 D. Event 4 Stetup Atam 5 O. Al 7 Order Decombine 7	admin user1 user2 user3	ADMIN USER USER	Enable Disable		
Encode Record Capture 2	user1 user2 user3	USER USER	Disable		
Setup Alarm 3 Ô Al 7	user2 user3	USER			
Event 4 Setup Atarm 5 O Al 7 Setup Recontinon 5	user3		Disable		
Setup Alarm 5 (2) Al 6 7 7		USER	Disable		
6 ② Al 7 Setup Recognition	user4	USER	Disable		
Al 7	user5	USER	Disable		
Setup Recognition	user6	USER	Disable		
Alam Statutos Refresh					
Disk Audio System General Multi Over					



To change an administrator or user password, click the "Edit Password" icon. The password must be at least 8 characters long and a combination of numbers, letters, and symbols. Enter the new password again for confirmation. Save the new password. You will be asked to enter the old password for authentication.



GRUNDIG				Playback	Local Settings	0
	Username		Editing	×	Policy	
		Enable				
		Username	user1			
		D escription				
		Password				
(*) Al		Password Strength				
		Confirm	OK Cancel			
🕞 Device						

Figure 8.9.2.2 Editing

- 1. Select one of inactive users and click the "Edit Password" icon.
- 2. Turn on "Enable" to enable users.
- 3. Click "Username" to edit the username.
- 4. Click the field next to **Password** to enter your password.
- 5. Click the field next to **Confirm** to enter your confirm password.

Click **Save**. You will have to enter the administrator password for authentication.

				Live	Playback	Remote Setting	Local Settings	0
					×ď			
	Username	user1						
	Playback							
			n All Save Cance	И				

Figure 8.9.2.3 Policy

Set user permissions and check the boxes corresponding to the functions. Click **All** to check all boxes. Click **Clear** to clear all boxes.

8.9.3 System Maintenance

This menu enables you to search for and view system logs, restore factory settings, upgrade the system, export and

import system parameters, and configure automatic system restart.

8.9.3.1 Log Management

The system log displays important system events, such as motion alarms and system warnings. You can easily import backup files in the system log to your computer within a set time range.

GRUNDIG						Live	Playback	Remote Setting	Local Settings	0 (
🖓 Channel	Log Load Default	Upgrade	Parameter Management	Auto Reboot	Developer Mode						
Live Image Control Video Cover	Log Type										
음 Record	Name			Export							
Encode Record Capture	Start Time	04/13/2022	00 : 00 : 0								
🖻 Event	End Time	04/13/2022									
Setup Alarm	No.		Time		Log Content	U	og Info				
@ #			04/13/2022 16:38:45		Motion End	Is	Is there a video: has record				
			04/13/2022 16:38:35		Motion Start	Is	there a video: h	as record			
Setup Recognition Alarm			04/13/2022 16:37:58		Motion End	Is	there a video: h	as record			
Statistics			04/13/2022 16:37:46		Login	O U IF	Operation result. The operation was successful User Name: admin IP: 172.20.58.2				
. Motinoin			04/13/2022 16:37:42		Motion Start	as record					
General Email FTP			04/13/2022 16:36:59		Motion End	ls	there a video: h	as record			
RTSP DONS HTTPS			04/13/2022 16:36:29		Motion Start	ls	there a video: h	as record			
IP Filter			04/13/2022 16:35:44		Motion End	Is	there a video: h	as record			
D a 1			04/13/2022 16:35:24		Motion Start	Is	there a video: h	as record			
			04/13/2022 16:35:09		Motion End	Is	there a video: h	as record			
Disk Audio Cloud											
System General Multi-User Maintenance Information											

Figure 8.9.3.1 Log Files

Log Search and Backup:

- 1. Click the field next to **Start Time** and select the start date and time from the on-screen calendar.
- 2. Click the field next to **End Time** and select the end date and time from the on-screen calendar.
- 3. Select the event type you want to search for from the drop-down list next to **Log Type**, or select **All** to view the entire system log for the selected time range. The type options include: system log, configuration log, warning log, account log, recording log, storage log, and network log.
- 4. Select the event type you want to search for from the drop-down list next to **Minor Type** (this menu is unavailable if ALL is selected for Log Type), or select **All** to view the entire system log for the selected time range. The type options include:
- System: System settings, restart, automatic restart, upgrade, time settings, and NTP.
- **Configuration:** IPC live control, private area settings, recording mode settings, recording plan settings, main stream settings, network settings, Sub Stream settings, email settings, color settings, motion detection settings, hard disk settings, multi-user settings, NTP settings, image control, mobile stream settings, RTSP settings, IP filter settings, restore factory settings, export settings, and import settings. Event Push settings, Capture settings, Deterrent settings, AI settings, FTP settings, DDNS settings, HTTPS settings, audio settings, Siren settings.
- Alarm: Start of Line Crossing, end of Line Crossing, start of Intrusion, end of Intrusion, start of Region Entrance, end of Region Entrance, start of Region Exiting, end of Region Exiting.
- Account: login, log out, locked and switch users.
- **Recording:** Search, playback, and backup.

- **Storage:** Formatting HDD, HDD full, and HDD error.
 - 5. **Network:** Network disconnected, network online, network exception, and Network Mode changed.
 - 6. Click Search.
 - 7. Browse system logs from the selected time range:
 - 8. Use the K < / > > button in the lower right corner of the menu to switch between pages of system log events.

Enter the name of the exported file in the field next to **Name**. Click **Export** to create the backup of system logs.

8.9.3.2 Load Default

Reset the device to factory settings. You can choose to reset all the settings at a time, or the settings on a specific menu.

Note: Restoring the default Settings will not delete videos and snapshots stored in the memory card.



Figure 8.9.3.2 Default

Select the item to restore, or All to select all items. Click "Save" to load the default settings for the selected items.

8.9.3.3 System Upgrade

This menu allows to upgrade firmware.

GRUNDIG					Live	Playback	Remote Setting	Local Settings	• 🕛
Video Cover	Log	Load Default	Parameter Management	Auto Reboot					
음, Record	Path			Upgrade					
Encode Record									
Event									
Setup Alarm									
@ AI									
Setup Alarm									
Network									
General Email RTSP									
System									
Maintenance Information									

Figure 8.9.3.3 System Upgrade

Upgrade: Click this button to start system upgrade.

Place the firmware file (.sw) into the HDD of your PC.

Click "..." next to "Path" to select the firmware file from your PC.

Click the **Upgrade** button to start system upgrade. The system upgrade will take about 2 to 3 minutes. Do not power off the device or close your IE browser while system upgrade is in progress.

8.9.3.4 Parameter Management

You can export the configured parameters to your PC or import the exported configuration file from your PC to the device.

GRUNDIG					Live	Playback	Remote Setting	Local Settings	0 0
Channel Live Image Control Video Cover ROI	Log Load D Import File	efault Upgrad	Parameter Manager	ment Auto Reboot	Developer Mode				
Record	Export file name								
D Event Setup Aarm									
Al Setup Recognition Alarm Statistics									
Network General Email FTP RTSP DDNS HTTPS IP Filter Platform Access									
Device Disk Audio									
System General Multi-User Mantenance Information									

Figure 8.9.3.4 Parameter

Import File: Click the field to display the path window. Select the parameter file and then click **Import** to start importing parameters.

Export File Name: Click the field to enter the name of the file to which parameters are exported. Click **Export** to export parameters.



8.9.3.5 Auto Reboot

This menu enables the system to automatically reboot. You are advised to enable this function to guarantee the stable operation of the device.

GRUNDIG		Live	Playback	Remote Setting	Local Settings	0
P Channel	Log Load Default Upgrade Parameter Management Auto Reboox. Developer Mode					
Live Image Control Video Cover RDI	Aub Retoce					
Record						
Event						
Ø AI	Save Retreat Recost					
Setup Recognition Alarm Statistics						
(@) Network						
General Enail FTP RTSP DONS HTTPS IP Filter Platform Access						
Device						
System						
General Multi-User Maintenance Information						

Figure 8.9.3.5 Reboot

Auto Reboot: Enable or disable auto reboot feature.

Time: Set IPC to reboot by day, week, or month.

8.9.4 System Information

This menu allows to view system information, such as device ID, device model, MAC address, firmware version.

GRUNDIG			Live	Playback	Remote Setting	Local Settings	•
Video Cover							
음, Record	Device ID	000000					
Encode Record	Device Name	GU-CI-AC4814E					
Event	Device Type	GU-CI-AC4614E					
Setup Alarm	Hardware Version	CM-407D					
AI	Software Version	V1.0.2_240930					
Setup Alarm	Web Version	V1.4.0.101_240927					
) Network	MAC Address	A4-DA-22-A8-30-D0					
General Email RTSP DDNS HTTPS	Refresh						
📑 Device							
Disk Audio							
System							
General Multi-User Maintenance Information							

Figure 8.9.4 System Info

9 Local Settings

This menu allows to set the path for storing videos and downloaded and captured image files, as well as the format of videos and captured images.

GRUNDIG					Live	Playback	Remote Setting	Local Settings	0
Pat	configuration								
	Record Path	D DeviceRecord		e					
	Download Path	D Device Download							
	Snapshot Path	D 'Device' Capture		Ð					
	File type	MP4							
	Interval		 Minute 						
	Capture Type	JPG							
		Save							

Figure 9.1 Local Settings

UG-GU-CI-AC2614E-2024-09-05-V6-EN ©ABETECHS GMBH, DÜSSELDORF, GERMANY