

Dahua IR Thermal Imaging Network Camera Web3.0 Operation Manual

Version 1.0.0



Table of Contents

1	Netw	vork Co	onfig	1
	1.1	Ne	twork Connection	1
	1.2	Log	g in	1
2	Live		-	6
	2.1	En	code Setup	6
	2.2	Sys	stem Menu	7
	2.3	Vid	leo Window Function Option	7
	2.4	Vid	leo Window Setup	8
		2.4.1	Image Adjustment	8
		2.4.2	Original Size	9
		2.4.3	Full Screen	9
		2.4.4	Width and Height Ratio	10
		2.4.5	Fluency Adjustment	10
		2.4.6	Rules Info	10
		2.4.7	Realtime Report	10
		2.4.8	Ray Axis Correct	10
3	Play	back		12
	3.1	Pla	lyback	12
		3.1.1	Function of Play	12
		3.1.2	Playback File	13
		3.1.3	Playback Cut	16
		3.1.4	Record Type	16
		3.1.5	Progress Bar	17
		3.1.6	Assistant Function	17
	3.2	Pic	ture Playback	17
		3.2.1	Play	18
		3.2.2	Playback File	18
		3.2.3	Snapshot Type	20
4	Repo	ort		22
5	Setu	p		24
	5.1	Ca	mera	24
		5.1.1	Conditions	24
		5.1.2	Video	27
		5.1.3	Audio	34
	5.2	Ne	twork	35
		5.2.1	TCP/IP	35
		5.2.2	Connection	36
				ii



TECHNOLOGY	a	Dahua IR Thermal Imaging Network Camera Web3.0 Operation Manual	
	5.2.2.1	1 Connection	36
	5.2.3	PPPoE	39
	5.2.4	DDNS	40
	5.2.5	IP filter	41
	5.2.6	SMTP (e-mail)	42
	5.2.7	UPnP	43
	5.2.8	SNMP	44
	5.2.9	Bonjour	47
	5.2.10	Multicast	47
	5.2.11	802.1x	48
	5.2.12	2 QoS	49
5.3	Ev	ent	50
	5.3.1	Video detect	
	5.3.2	IVS Analyse	54
	5.3.3	Temperature Alarm	61
	5.3.4	Fire Alarm	62
	5.3.5	Alarm	65
	5.3.6	Abnormity	66
5.4	Те	mperature	69
	5.4.1	Rule Setup	69
	5.4.2	Global	73
	5.4.3	Heatmap	78
5.5	Sto	prage Management	78
	5.5.1	Schedule	78
	5.5.2	Destination	82
	5.5.3	Record control	84
5.6	Sy	stem	85
	5.6.1	General	85
	5.6.2	Account	87
	5.6.3	Default	91
	5.6.4	Import/Export	91
	5.6.5	Auto Maintenance	91
	5.6.6	Upgrade	92
5.7	Inf	ormation	93
	5.7.1	Version	93
	5.7.2	Log	93
	5.7.3	Online User	94
Alar	m		95
Log	out		97



Important

The following functions are for reference only. Some series products may not support all the functions listed below.



1 Network Config

1.1 Network Connection

Network camera and PC connection mainly has two ways, see Figure 1-1 and Figure 1-2.



Figure 1-2

Before you access network camera via the Internet, you need to have its IP address. User can use quick config tool to search IP of the network camera. Please refer to Quick Configuration Tool manual.

1.2 Log in

Open IE and input network camera address in the address bar.

For example, if your camera IP is 192.168.1.108, then please input http:// 192.168.1.108 in IE address bar.

The login interface is shown as below. See Figure 1-3.

Please input your user name and password.

Default factory username is **admin** and password is **admin**.

Note: For security reasons, please modify your password after you first login.



Username:			j.	
Password:				
[Login	Cancel		



If it is your first time to login in, you may see the interface shown as in Figure 1-4.



Figure 1-4



Click on "Please click here to download and install the plug-in". The system pops up warning information to ask you whether run or save this plug-in. See Figure 1-5.

File Dow	nload - Seo	curity Warning 🛛 🔀	
Do you	want to rur	n or save this file?	
	Name: Type: From:	webplugin.exe Application, 1.08MB 10.10.4.198	
		Run Save Cancel	
٢	While files fro potentially ha run or save t	om the Internet can be useful, this file type can arm your computer. If you do not trust the source, do not his software. <u>What's the risk?</u>	

Figure 1-5

You must either run or save the file to local and install it. Follow the following steps. Click on run, you will see Figure 1-6 and Figure 1-7.





Figure 1-6





When plug-in installation completes, the installation page closes automatically. The web-end will refresh automatically, and then you can view video captured by the camera. See Figure 1-8.



Figure 1-8



2 Live

After you logged in, you can see the live monitor window. See Figure 2-1.



Figure 2-1

There are four sections:

- Section 1: Encode setup bar
- Section 2: System menu
- Section 3: Window function option bar
- Section 4: Window adjust bar

2.1 Encode Setup

The encode setup interface is shown as in Figure 2-2.





Please refer to the following sheet for detailed information.

Parameter	Function
Main stream	Streaming media protocol connection, under main stream config, monitor video or not. Generally for storage and monitor.
Sub (Extra) stream	Streaming media protocol connection, under sub stream config, monitor video or not. When network bandwidth is insufficient, it substitutes main stream for monitoring.
Protocol	You can select stream media protocol from the dropdown list. There are three options: TCP/UDP/Multicast

2.2 System Menu

System menu is shown as in Figure 2-3.

Please refer to chapter 2 Live, chapter 3 Playback, chapter 4 Setup, chapter 5 Alarm, chapter 6 Log out, for detailed information.

Live	Playback	Setup	Alarm	Logout

Figure 2-3

2.3 Video Window Function Option

The interface is shown as below. See Figure 2-4.





Please refer to the following sheet for detailed information.

SN	Parameter	Function
1	Alarm output	 It shows if there is any alarm output, status description is as follows: Red: means there is alarm output. Grey: means alarm is over. Click on the button to force alarm to be on or off.



2	Zoom in	 When the video is in the original status, click it you can select any zone to zoom in. In the non-original status, you can drag the zoom-in zone in specified range. Right click mouse to restore previous status. Click it; you can use the middle button of the mouse to zoom in/out the video size.
3	Snapshot	Click on the button to snapshot, save picture to path in Ch 5.1.2.5.
4	Triple snap	Click it, system can snap at 1f/s. All images are saved to path in Ch 5.1.2.5.
5	Record	Click it, system can record. All images are saved to path in Ch 5.1.2.5.
6	Audio output	Turn on or off audio when you are monitoring. Note: Only supported by the device with audio.
7	Help	Click it to open help file.

2.4 Video Window Setup

The interface is shown as in Figure 2-5.



Figure 2-5

2.4.1 Image Adjustment

See Figure 2-6 for image adjustment.





Figure 2-6

Click this button to display/hide image control interface. Click it to open picture setup interface. This interface is on the top right pane.

Please refer to the following	sheet for detailed information
-------------------------------	--------------------------------

Param	eter	Function		
Video setup	¥	It is to adjust monitor video brightness.	Note: • All the operations here apply	
	●	It is to adjust monitor video contrastness.	 to WEB end only. Please go to Setup- >Camera->Conditions to 	
	۹	It is to adjust monitor video hue.	adjust corresponding items.	
	*	It is to adjust monitor video saturation.		
	Reset	Restore brightness, contrastness saturation and hue to system default setup.		

2.4.2 Original Size

Click this button to go to original size. It is to display the actual size of the video stream. It depends on the resolution of the bit stream.

2.4.3 Full Screen

Click it to go to full-screen mode. Double click the mouse or click the Esc button to exit the full screen.



2.4.4 Width and Height Ratio

Click it to restore original ratio or suitable window.

2.4.5 Fluency Adjustment

There are three levels of fluency for you to select (real-time, normal, fluent). The default is normal.

2.4.6 Rules Info

Click it to enable preview page to display intelligent rules, the default is on.

Note:

The function is only supported by some devices.

2.4.7 Realtime Report

It is to open or close temperature record interface, it mainly records the temperature change of selected spot, line and area within designated time period starting from the current time. See Figure 2-7. Note:

The function is only supported by some devices.

2.4.8 Ray Axis Correct

It is to enable or disable ray axis correct.

Note:

The function is only supported by some devices.





Figure 2-7



3 Playback

Web client playback supports video playback and picture playback. Note:

Before playback, user shall set storage management as in Ch 5.5.

3.1 Playback

The playback interface is shown as in Figure 3-1.



Figure 3-1

There are four sections:

- Section 1: Function of play
- Section 2: Playback file
- Section 3: Play time cut
- Section 4: Record type
- Section 5: Progress bar
- Section 6: Assistant function

3.1.1 Function of Play

The function of play is shown as in Figure 3-2.





Figure 3-2

Parameter			Function
1	Play		When you see this button, it means pause or not played record. Click on this button, switch to normal play status.
2	Stop		Click this button to stop playing.
3	Play frame	by	Click on this button to go to next frame. Note: You shall pause record when you use this function.
4	Slow		Click on this button to play slowly.
5	Quick		Click on this button to play quickly.
6	Silent		When this button displays, it means audio is silent. Click on this button to switch back to normal.
\bigcirc	Volume		Click on left mouse to adjust volume.

3.1.2 Playback File

In calendar, blue date represents data currently has video record or snapshot. See Figure 3-3.





Figure 3-3

Parameter	Function
File Type	Select "dav", as video playback.Select "jpg" as picture playback.
Data Source	Default is SD card.

Step 1. Click on data in blue, time axis displays record file progress bar in color. While, green represents normal record, yellow represents motion detect record, red represents alarm record, and blue represents manual record.

Step 2. Click on certain time on progress bar, playback starts from this time. See Figure 3-4.

Figure 3-4

Step 3. Click on file list select date file will be displayed in list.

Step 4. Double click on file in list, playback this file and display file size, start time and end time. See Figure 3-5.



00	: 00 : 00	- 23 :	59:5	9 Q
Dow	nLoad Forn	nat 🔍 d	lav ᠑	mp4
	Start Time	File	Туре	
1	13:03:20	-	•	
2	13:04:22		•	
3	13:04:58	-	•	
4	13:12:08	-	•	
5	13:21:22	_	•	
6	13:22:44		•	
7	13:24:12		•	
8	13:24:32		•	
9	13:38:22		•	
10	13:45:18		•	
11	14:40:14		•	
ŀ	◀ ◀ 1/1	►►	1	•
Begi	n Time: 20	13-12-	18 13:03	3:20
End	Time: 20	13-12-	18 13:03	3:55
File S	Size: 16	868(KE	3)	
		4		
		-		

Figure 3-5

Parameter	Function
۹ Search	It means records within searched start time and end time on the date.
Record Download Format	There are two formats: dav, mp4.



Parameter	Function
Download	 Record type is "dav", click on download button to download file to local. Record type is "mp4", click on download button and download file to path in Ch 5.1.2.5. Note: System does not support download and playback of MP4 file.
🗲 Back	Click on back button to go to calendar interface.

3.1.3 Playback Cut

Note:

Playback cut function will automatically pause playing record as playback cut and playback cannot be at the same time.

Step 1. Click on start time to cut on time axis. This time must be within progress bar range.

Step 2. Move mouse to cut icon . You will be ask to select start time. Click on cur icon finish cutting.

Step 3. Click on playback cut end time on time axis. This time must be within progress bar range.

Step 4. Move mouse to cut icon *weill*, you will be asked to select end time. Click on cut icon *et al* as finish cutting.

Step 5. Click on Save button to save file cut to path in Ch 5.1.2.5. See Figure 3-6.



Figure 3-6

3.1.4 Record Type

Check record file type, only selected file will be displayed in progress bar and file list. See Figure 3-7.



Figure 3-7



3.1.5 Progress Bar



Figure 3-8

Parameter	Function
C 24hr 24 hours	Click on it, means video in past 24 hours.
O ^{2hr} 2 hours	Click on it, means video in past 2 hours.
O ^{1hr} 1 hour	Click on it, means video in past 1 hour.
30min 30 min	Click on it, means video in past 30 min.

3.1.6 Assistant Function

Video playback assistant function is shown in Figure 3-9.



Figure 3-9

Parameter	Function		
Zoom in	 Click on it, video in playback status if is in original size, user can zoom in any area, If it is not in its original size, click on mouse to restore its original size. Click on this button, you can scroll to zoom in. 		
Snapshot	Click on this button, you can snapshot video under playback status. Snapshot will be saved to path in Ch 5.1.2.5.		

3.2 Picture Playback

Web client picture playback interface has the following three functions:

Parameter	Function
1	Play function bar
2	Playback file bar



3

Snapshot type bar

See Figure 3-10.



Figure 3-10

3.2.1 Play



Figure 3-11



normal play status. Icon become

- Click on it to pause.
- 3.2.2 Playback File





Figure 3-12

Step 1. Click on file list , select snapshot file of the date.

Step 2. Double click on file in list, to play this snapshot.

Parameter	Function
Q Search	It means all snapshot files within the start time and end time of selected date.



Parameter	Function
Download	Click on download button to download snapshot file to local.
+ Back	Click on back button to return to calendar interface and re-select time.



Figure 3-13

3.2.3 Snapshot Type

Check snapshot file type, in file list only display file of selected type. See Figure 3-14.





Figure 3-14



4 Report

Attention:

Currently only some models support report function.

The WEB client supports temperature data query of the spot, line and area set by users. Please refer to "5.4.1 Rule Setup" of the settings for spot, line and area.

(a)hua	7	Live	Playback	Report	Setup	Alarm	Logout
							?
Search Search Time	2015 - 09 - 24 15 : 09 : 00 to 2015 - 09 - 25 15 : 09 : 00						
Period Type	10 Spot Line Area Search						
			Re	port			

Figure 4-1

Set query condition, click "Search" to check the temperature data within the time period, see Figure 4-2.





Figure 4-2



5 Setup

Web client setup support camera, network, event, storage, system and system info view.

5.1 Camera

5.1.1 Conditions

Here you can view device property information. Slight differences may be found due to different network camera series. The setups become valid immediately after you set. See Figure 5-1.



Figure 5-1

Able to set indoor scene, outdoor scene, general scene, you can set and check the config and effect in the corresponding scene after selecting needed scene, please refer to the following sheet for the exact parameters.



Parameter	Function
Brightness	It is to adjust monitor window brightness. You can adjust this value if the video is too dark or too bright. The larger the number, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100. The recommended value
	ranges from 40 to 60. The default value is 50.
Sharpness	The value here is to adjust the edge of the video. The larger the value is, the clear the edge is and vice versa. Please note there is noise if the value here is too high.
	The value ranges from 0 to 100. The recommended value ranges from 5 to 50.
	The default value is 10.
Gamma	This threshold value mainly changes image contrast according to the relative temperature of the scene.
	 When the threshold value is > 0, it can increase the contrast of the part with higher temperature in the scene, and weaken the contrast of the part with lower temperature (such as sky and ocean).
	 When threshold value is < 0, it can weaken the contrast of the part with higher temperature, and reserve more gray level gradients to increase the part with lower temperature in the scene.
	The value ranges from -8 to 8. The default value is 3.
EZoom	It can zoom in part of the area in the scene to get clear view.
Smart Scene	The temperature measurement information of the image can be well saved through smart scene function (for example, the gray scale gradient difference between two objects can represent the temperature difference between them). The image contrast will be weakened to some extent. The value ranges from 0~100, default is 15.



Colorization	Able to add color to the IR image, there are 4 colors to select:	
	In grayscale image, the place is brighter with higher temperature.	
	Black Hot:	
	In grayscale image, the place is brighter with lower temperature.	
	Ironbow2: Color image with high brightness and contrast.	
	IceFire: In color image, the object with high temperature shows IR, the object with low temperature shows blue. Generally it is used as warning mode. The default is white.	
ROI Type	Able to select such modes as: central point 25%, central point 50%, central point 75%, self-define, full screen, bottom, middle and top.	
Mirror	Enable it then it will change the left, right direction of video monitoring image. It is disable by default.	
Flip	Use this function to change the direction of video monitoring Image. You can select 0°, 90°,180° and 270°. It is 0° by Default. Note: It needs to set the video resolution as 1080P or lower when using flip mode function.	
AGC	It is to set the image AGC; it ranges from 0 to 255.	
AGC Max Gain	It is to set the image max AGC gain, it ranges from 0 to 255. The higher the value is, the bigger the image contrastness becomes, but with bigger noise.	
AGC Plateau	It is to set the image plateau AGC; it ranges from 0 to 255.	



Gain Mode	 There are three modes to select: low temperature, high temperature and auto, it is low temperature by default. Under auto mode, it can set the threshold of switching low temperature to high temperature, low temperature area percentage, threshold of switching high temperature to low temperature, high temperature area percentage. Low temperature mode, when the temperature exceeds "threshold of switching low temperature" and the pixel point which exceeds threshold is bigger than "low temperature area percentage', then it will auto switch to high temperature mode.
	• High temperature mode, when the temperature is lower than "threshold of high temperature switching to low temperature", and the pixel point which is lower than threshold is bigger than "high temperature area percentage", then it will auto switch to low temperature mode.
	• Setting rules: the temperature threshold of low temperature switching to high temperature needs to be higher than that of high temperature switching to low temperature, the sum of two area percentage need to be bigger than 100.
Device Information	Display device serial number, software version and firmware version.

Click "Restore" to make the "Camera Condition" back to original state.

5.1.2 Video

5.1.2.1 Video bit stream

The video bit stream interface is shown as below. See Figure 5-2.



(a)hua			í		Disubask	Dener	Catur		
TECHNOLOGY				Live	Ріаураск	Report	Setup	Alarm	Logout
⊤ Camera	Video	Snapshot	Overlay	Pat	h				?
> Conditions	Main Stream				Sub Stream				
> Video					Enable				
> Audio	Code-Stream Type	General	•		Code-Strea	m Type General	•		
Network	Encode Mode	H.264H	•		Encode Mod	de H.264H	•		
	Resolution	SXGA (1280*1024)	T		Resolution	NATIVE (640*512) 🔻		
Storage	Frame Rate(FPS)	25	•		Frame Rate	(FPS) 15	•		
▶ System	Bit Rate Type	CBR	•		Bit Rate Typ	e CBR	•		
▶ Information	Reference Bit Rate	640-8192Kb/S			Reference B	Bit Rate 96-2048Kb	/S		
	Bit Rate	2048	T		Bit Rate	192	•		
	I Frame Interval	50	(25~150)		I Frame Inte	rval 30	(1	5~150)	
	 Watermark Settings 								
	Watermark Charact	er DigitalCCTV							
		Default	Refresh	Save					

Figure 5-2

Note:

Different stream may be corresponding to different default value, please refer to the actual interface for details.

Please refer to the following sheet for detailed information.

Parameter	Function
Code-Stream Type	ACF means using different fps to record. There are two options: VBR and CBR. Please note, you can set video quality in VBR mode.
Encode mode	 There are four options: H.264 (main profile standard, H.264H (high profile standard), and MJPG encode. The H.264, H.264H both are H264 bit stream. H.264 is the Main Profile encode and you need to enable the sub stream function in your camera and set the resolution as CIF. Then you can monitor via the Blackberry cell phone. MJPEG: In this encode mode, the video needs large bit stream to guarantee the video definition. You can use the max bit stream value in the recommended bit to get the better video output effect.



Parameter	Function				
Resolution	There are multiple resolutions. You can select from the dropdown list.				
	For each resolution, the recommended bit stream value is different.				
	Note: When video is under rotating status, you cannot set resolution higher than 1080P (excluding 1080P).				
Frame Rate	PAL: 1~25f/s, NTSC: 1~30f/s				
	The frame rate may vary due to different resolutions.				
Bit Rate Type	There are two options: VBR and CBR. Please note, you can set video quality in VBR mode. Under MJPEG mode, only CBR is available.				
Recommended Bit	Recommended bit rate value according to the resolution and frame rate you have set.				
Bit Rate	 In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode. Please refer to recommend bit rate for the detailed information. 				
I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50.				
	Recommended value is frame rate *2.				
Watermark Settings	By calibrating watermark, to see if video is modified. Select Watermark function. Default watermark is Digital CCTV.				
	Watermark character can only be number, letter, _, - within 128 characters.				

5.1.2.2 Snapshot

The snapshot interface is shown as in Figure 5-3.

Alhua									
TECHNOLOGY				Live	Playback	Report	Setup	Alarm	Logout
▼ Camera	Video	Snapshot	Overlay	Pa	ath				?
> Conditions	Snapshot Type	General	*	-					
> Video	Image Size	SYGA (1280*1024)	-						
> Audio	Quality	5/(0/(1200 1024))							
Network	Quality	0	_						
▶ Event	Interval	15	•						
► Temperature		Default	Refresh	Save					
Storage									
System									
▶ Information									



Please refer to the following sheet for detailed information.

Parameter	Function
Snapshot type	 There are two modes: General (schedule) and Event (activation). General: to snapshot in the area set by the schedule. Event: to snapshot after triggering motion detect and local alarm,
Image size	It is the same with the resolution of snapshot (main stream or sub stream).
Quality	It is to set the image quality. There are six levels.
Interval	It is to set snapshot frequency. The value ranges from 1s to 7s.

5.1.2.3 Video Overlay

The video overlay interface is shown as in Figure 5-4.



Figure 5-4





Figure 5-5



Figure 5-6





Figure 5-7



Figure 5-8

Please refer to the following sheet for detailed information.

Parameter	Function			
Privacy mask	 Here you can privacy mask the specified video in the monitor video. System max supports 4 privacy mask zones. 			


Time Title	 You can enable this function so that system overlays time information in video window.
	• You can use the mouse to drag the time tile position.
Channel Title	 You can enable this function so that system overlays channel information in video window. You can use the mouse to drag the channel tile position.
Location	 You can enable this function to overlay location information in video window.
	 You can click on setup button to set location information. You can use the mouse to drag location box to adjust its position. Alignment include align left and align right.
Overlay	 You can enable this function to display overlay picture. Click on disable to turn it off. Click on Upload Picture to overlay local picture into monitoring window. You can drag the yellow box to move it.
	Note:
	You cannot enable location and overlay at the same time.
Refresh	 Set privacy mask, channel title, time title, location, overlay and save the change. You can click on Refresh to see effect.

5.1.2.4 Path

The storage path interface is shown as in Figure 5-9.

Here you can set snap image saved path and the record storage path.

- The default monitor image path is C:\Documents and Settings\Administrator\WebDownload\Snapshot.
- The default monitor record path is C:\Documents and Settings\Administrator\WebDownload\LiveRecord.
- The default playback snapshot path is C:\Documents and Settings\Administrator\WebDownload\PlaybackSnapshot.
- The default playback download path is C:\Documents and Settings\Administrator\WebDownload\PlaybackRecord.
- The default playback cut path is: C:\Documents and Settings\Administrator\WebDownload\VideoClips.
- The heat map path is: C:\Documents and Settings\ Administrator\WebDownload\heatmap

Note:

Administrator is locally logged in PC account. Please click the Save button to save current setup.



alhua				Live	F	Playback	Report	Setup	Alarm	Logout
▼ Camera	Video	Snapshot	Overlay		Path					?
> Conditions	Live Snapshot	C:\Users\24766\Web	Download\LiveSna	ipshot		Browse				
> Video > Audio	Live Record	C:\Users\24766\Web	Download\LiveRec	ord		Browse				
Network	Playback Snapshot	C:\Users\24766\Web	Download\Playbac	ckSnapshot		Browse				
▶ Event	Playback Download	C:\Users\24766\Web	Download\Playbac	kRecord		Browse	_			
Temperature	Heat Map Path.	C:\Users\24766\Web	Download\heatma	n		Browse	_			
Svstem	·	Default	8010	r						
Information		Delault	Save							

Figure 5-9

5.1.3 Audio

Please note some series devices do not support audio function.

5.1.3.1 Audio

The audio interface is shown as below. See Figure 5-10.

		Live	Playback	Report	Setup	Alarm	Logout
Audio							?
Attribute							
	Law						
Sampling Frequency	16K ▼						
Microphone Volume	□()+	100					
Main Stream			Sub Stream				
Enable			Enable				
Encode Mode	G.711A •		Encode Mo	de G.711A	•		
	Default	- Covo					
	Reliesi	Save					
	Audio Attribute Sampling Frequency Microphone Volume Main Stream C Enable Encode Mode	Audio Attribute Sampling Frequency 16K Microphone Volume Main Stream Calculate G.711A Calculate G.711A Calculate Cal	Live Audio Attribute Sampling Frequency 16K Microphone Volume Default Refresh Save	Live Playback Audio Attribute Sampling Frequency 16K Microphone Volume Main Stream CEnable Encode Mode G.711A Default Refresh Save	Live Playback Report Audio Attribute Sampling Frequency Microphone Volume ① Main Stream ✓ Enable Encode Mode G.711A Default Refresh	Live Playback Report Setup Audio Attribute Sampling Frequency 16K Microphone Volume ① () 100 Main Stream Sub Stream ✓ Enable Encode Mode G.711A Default Refresh Save	Live Playback Report Setup Alarm Audio Attribute Sampling Frequency 16K Microphone Volume f 100 Main Stream f Enable Encode Mode G.711A f Default Refresh Save

Figure 5-10

Parameter	Function
Sampling Frequency	It includes two types of frequency: 8k and 16k.
Microphone Volume	It is to set the microphone volume.
Audio enable	 Check "Enable", the stream is A/V composite stream, otherwise it contains video only. Audio is available only when video is enabled.
Encode mode	The encode mode includes three modes: G.711A, G.711Mu and AAC. The default is G.711A.



5.2 Network

5.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 5-11. It supports IPv4 and IPv6. IPv4 supports static IP and DHCP. IPv6 supports static IP only. When users manually modify IP address, WEB will automatically jump to the new IP address.

Alhua								
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	TCP/IP							?
▼ Network	Host Name	TPC						
> TCP/IP								
> Connection	Ethernet Card	Wire(DEFAULT) •						
> PPPoE	Mode	 Static O DHCP 						
> DDNS	MAC Address	20 . 15 . 07 . 14 . 15 . 09						
> IP Filter	IP Version	IPv4 🔻						
> SMTP(Email)	IP Address	10 . 15 . 6 . 253						
> UPnP	Subnet mask	255 . 255 . 0 . 0						
> SNMP	Default Gateway	10 . 15 . 0 . 1						
> Bonjour	Preferred DNS Serv	er 8 8 8 8						
> Multicast	Alternate DNR Canv							
> 802.1x	Alternate DNG Serve	0.0.4.4						
> QoS	 Enable ARP/Ping to 	set IP address service						
Event		Default Refresh	Save					
► Temperature								
Storage								
> System								
▶ Information								

Figure 5-11

Parameter	Function
Host Name	It is to set current host device name. It max supports 15 characters.
Ethernet Card	Please select the Ethernet port. Default is wired.
	Please note you can modify the default Ethernet card if there is more than one card
	Please note the device needs to reboot to activate the new setup once you modify the default setup.
Mode	There are two modes: static mode and the DHCP mode. Select DHCP mode, it auto searches IP, and you cannot set IP/subnet mask/gateway. Select static mode, you must manually set IP/subnet mask/gateway.
Mac Address	It is to display hose Mac address.



IP Version	It is to select IP version. IPV4 or IPV6.				
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.				
Preferred DNS	DNS IP address.				
Alternate DNS	Alternate DNS IP address.				
Enable ARP/Ping set	You can use ARP/Ping command to modify or set the device IP address if you know the device MAC address.				
device IP address service.	Before the operation, please make sure the network camera and the PC in the same LAN. This function is on by default.				
	You can refer to the steps listed below.				
	Step 1 : Get an IP address. Set the network camera and the PC in the same LAN.				
	Step 2 : Get the physical address from the label of the network camera.				
	Step 3 : Go to the Run interface and then input the following commands.				
	arp –s <ip address=""> <mac> ping –I 480 –t <ip address=""> Such as: arp -s 192.168.0.125 11-40-8c-18-10-11 ping -I 480 -t 192.168.0.125</ip></mac></ip>				
	Step 4: Reboot the device.				
	Step 5 : You can see the setup is OK if you can see there are output information such as "Reply from 192.168.0.125" from the command output lines. Now you can close the command line.				
	Step 6 : Open the browse and then input http:// <ip address="">. Click the Enter button, you can access now.</ip>				

5.2.2 Connection

5.2.2.1 Connection

The connection interface is shown as in Figure 5-12.



(a)hua								
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
Camera	Connection	ONVIF						?
Vetwork	Max Connection	10 (1~	20)					
> TCP/IP	TCP Port	37777 (10	25~65534)					
> Connection	UDP Port	37778 (10	25~65534)					
	HTTP Port	80						
	RTSP Port	554						
> SMTP(Email)	HTTPs							
> UPnP	HTTPs Port	443						
> SNMP		Default	Save					
> Bonjour								
> Multicast								
> 802.1x								
> QoS								
Event								
Temperature								
Storage								
> System								
Information								



Parameter	Function
Max connection	It is the max Web connection for the same device. The value ranges from 1 to 20. Default connection amount is 10.
TCP port	Port range is 1025~65534. The default value is 37777. You can input the actual port number if necessary.
UDP port	Port range is 1025~65534. The default value is 37778. You can input the actual port number if necessary.
HTTP port	Port range is 1025~65524. The default value is 80. You can input the actual port number if necessary.



RTSP port	 The default value is 554. Please leave blank if use default. User uses QuickTime or VLC can play the following formats. BlackBerry can play too. 					
	 Real-time monitoring URL format, please require real-time RTSP media server, require channel no., bit stream type in URL. You may need username and password. 					
	 User uses BlackBerry need to set encode mode to H.264B, resolution to CIF and turn off audio. 					
	URL format is:					
	rtsp://username:password@ip:port/cam/realmonitor?channel=1&subtyp					
	username/password/IP and port.					
	The IP is device IP and the port default value is 554. You can leave it in blank if it is the default value.					
	Follow standard RTP protocol and when encode mode is MJPEG, the max resolution only supports 2040*2040.					
HTTPs Enable	Check HTTPs enable, login as https://ip:port. Protect data. Default port is https://ip . It is disabled by default.					
HTTPs Port	HTTPs communication port, range is 1025~65534, default is 443.					

Note:

- 0~1024, 37780~37880, 1900, 3800, 5000, 5050, 9999, 37776, 39999, 42323 are all special ports. User cannot modify them.
- Avoid using default port value of other ports.

5.2.2.1 **ONVIF**

ONVIF (Open Network Video Interface Forum), this standard describes network video mode, interface, data type and data interaction mode. ONVIF Standard's aim is to achieve a network video frame agreement and makes the network video products (including video front-end, video equipment, etc.) from different manufacturers completely compatible.

ONVIF function default is closed.



alhua								
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
Camera	Connection	ONVIF						?
▼ Network > TCP/IP	Authentication	Enable O Disable						
> Connection > PPPoE		Default Refresh	Save					
> DDNS > IP Filter								
> SMTP(Email) > UPnP								
> Bonjour								
> 802.1x > QoS								
Event								
 Storage 								
System								

Figure 5-13

5.2.3 PPPoE

The PPPoE interface is shown as in Figure 5-14.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.

Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from

the IP address column. When PPPoE is on, please disable UPnP to avoid influence on dial-up.

When you Check PPPoE enable, please disable UPnP.

Please note, you need to go to the IP address item to via the device current device information.

You can access the client-end via this address.

Alhua								
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	PPPoE							?
Network TCP/IP Connection PPPoE DDNS	 Enable Username Password 	none	Save					
> IP Filter > SMTP(Email)								
> UPnP > SNMP								
> Bonjour > Multicast								
> 802.1x > QoS								
Temperature								
Storage								
► System ► Information								

Figure 5-14



5.2.4 DDNS

The DDNS interface is shown as in Figure 5-15.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed. When the device connects to WLAN, you should disable UPnP.

Alhua								
CECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
Camera	DDNS							?
Vetwork COMP Connection PPPoE DDNS PIF Filter	Server Type Server Address Mode Domain Name Username	Dahua DDNS • www.dahuaddns.com • • Auto • Manual 201507141509	.dahuaddns.com (Optional)Please input the mailt	ox				
> SMTP(Email) > UPnP > SNMP		Default Refr	resh Save					
> Bonjour > Multicast > 802.1x > QoS								
 Event Temperature Storage System 								
▶ Information								

Figure 5-15

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list: CN99 DDNS, NO-IP DDNS, Dyndns DDNS, QUICK DDNS, Private DDNS, the default is QUICK DDNS.
Server Address	DDNS server IP address
	CN99 DDNS
	Server address: www.3322.org
	NO-IP DDNS
	Server address: dynupdate.no-ip.com
	Dyndns DDNS
	Server address: members.dyndns.org
	Other DDNS
Mode	Default is auto, able to choose manual



Parameter	Function
Domain Name	Both auto and manual are "MAC addresss.dahuaddns.com"by default, able to set prefix manually.
Username	The user name you input to log in the server, optional.

The CN99 DDNS interface is shown as in Figure 5-16.

Alhua								
(C TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	DDNS							?
▼ Network	Server Type	CN99 DDNS						
> TCP/IP	Server Address	www 3322 org						
> Connection	Domain Name	www.5522.01g						
> PPPoE	Domain Name	none						
> DDNS	Username	none						
> IP Filter	Password							
> SMTP(Email)	Update Period	10 Minutes (1-	~500)					
> UPnP		Default Refresh	Save					
> SNMP								
> Bonjour								
> Multicast								
> 802.1x								
> QoS								
▶ Event								
▶ Temperature								
▶ Storage								
▶ System								
► Information								

Figure 5-16

Parameter	Function
Server Type	You can select CN99 DDNS protocol
Server Address	Under CN99 DDNS the default server address is "www.3322.org"
Domain Name	Self-defined domain name
Username	The user name you input to log in the server.
Password	The password you input to log in the server
Refresh Period	The refresh period of the connection between the device IP and the server, default is 10 minutes.

5.2.5 IP filter

The IP filter interface is shown as in Figure 5-17.

You can enable IP filter function so that some specified IP/MAC user can access the network camera. You can add IP address or IP address section.



If you do not check the box here, it means there is on access limit.

Here you can add IP address and MAC address. You must add these addresses before enabling the trusted sites.

Please note: You must set MAC address in the same network segment.

(a)hua			Live	Playback	Report	Setup	Alarm	Locout
TECHNOLOGY	_		Live	Tayback	Report	Jetup	Alarm	Logour
▶ Camera	IP Filter							?
▼ Network	Trusted Sites							
> TCP/IP	Trusted Sites							
> Connection		IP address /MAC address			Modify		Delete	
> PPPoE								^
> DDNS								
> IP Filter								
> SMTP(Email)								
> UPnP								
> SNMP								
> Bonjour								
> Multicast								-
> 802.1x	Add IP/MAC							Remove All
> QoS	Default	Refresh Save					_	
Event	Delaut	Gave						
Temperature								
> Storage								
> System								
Information								

Figure 5-17

5.2.6 SMTP (e-mail)

The SMTP interface is shown as in Figure 5-18.

(a)nua			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	SMTP(Email)							
Network TCP/IP Connection PPPoE	SMTP Server Port	none						
> DDNS > IP Filter > SMTP(Email)	Username Password Sender	anonymity						
> UPnP > SNMP > Bonjour > Multicast	Authentication Title Mail Receiver	None Message Attachm +	ent					
> 802.1x > QoS ▶ Event	Interval	0 Minutes (0~1440)						
Temperature Storage System Information	🗌 Health Mail	Update Period 1 Minutes (C Email Test Default Refresh	Save					



Please refer to the following sheet for detailed information.

Parameter	Function
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name, password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL, TLS or none.
Title (Subject)	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Mail receiver	Input receiver email address here. Max three addresses.
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

5.2.7 UPnP

It allows you to establish the mapping relationship between the LAN and the public network.

Here you can also add, modify or remove UPnP item. For UPnP on different routers, you must disable UPnP function. See Figure 5-19.



In the Windows OS, From Start->Control Panel->Add or remove programs. Click the "Add/Remove Windows Components" and then select the "Network Services" from the Windows Components Wizard. Click the Details button and then check the "Internet Gateway Device Discovery and Control client" and "UPnP User Interface". Please click OK to begin installation.

Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the network camera can auto detect it via the "My Network Places".

Under manual mode, you can modify external port. Under auto mode, select idle port for auto port mapping without user modification.

Alhua							
TECHNOLOGY			Live	Playback	Report	Setup Alarm	Logout
> Camera	UPnP						?
	Enable	Mode Manual V	Router State Mapping Failed				
> TCP/IP	Port Mapping Li	st					
> Connection	r ort mapping cr	Service Name	Protocol	Internal Port	External Port	Status	Modify
> PPPoE		HTTP	WebService:TCP	80	8080	Mapping Failed	1
> DDNS		TCP	PrivService:TCP	37777	37777	Mapping Failed	
> IP Filter	e	UDP	PrivService:UDP	37778	37778	Mapping Failed	2
> SMTP(Email)		RTSP	RTSPService:TCP	554	554	Mapping Failed	2
> UPnP							
> SNMP							
> Bonjour							
> Multicast							-
> 802.1x	Default	Refresh Save					
> QoS							
Event							
▶ Temperature							
Storage							
> System							
▶ Information							

Figure 5-19

5.2.8 SNMP

The SNMP interface is shown as in Figure 5-20 and Figure 5-21.

The SNMP allows the communication between the network management work station software and the proxy of the managed device. Please install the software such as MG MibBrowser 8.0c software or establish the SNMP service before you use this function. You need to reboot the device to activate the new setup.



TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
Camera	SNMP							?
▼ Network	SNMP Version	SNMP v1 SNMP v2 SN	MP v3					
> TCP/IP								
> Connection	SNMP Port	161 (1~65	535)					
> PPPoE	Read Community	public						
> DDNS	Write Community	private						
> IP Filter	Trap Address							
> SMTP(Email)	Trap Port	162						
> UPnP	Keep Alive							
> SNMP				_				
> Bonjour		Default Refresh	Save					
> Multicast								
> 802.1x								
> QoS								
Event								
▶ Temperature								
Storage								
> System								
► Information								



Parameter	Function
SNMP Version	 Check SNMP v1, device only process v1 info. Check SNMP v2, device only process v2 info. Check SNMP v3, can set username, password and encryption method. Server calibrate corresponding username, password and encryption method too access device and v1/v2 are unavailable.
SNMP port	The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Community	It is a string, as command between management and proxy, , defining a proxy, and a manager's authentication.
Read community	Read-only access to all SNMP targets, default is public. Note: Only number, letter, _, and – supported.
Write community	Read/write access to all SNMP targets, default is private. Note: Only number, letter, _, and – supported.
Trap address	The destination address of the Trap information from the proxy program of the device.
Тгар	SNMP trap is a proxy message sent to admin as important event notice or status change.
Trap Address	Address where to send Trap message.



Parameter	Function
Trap Port	Port which send Trap message, default is 162, range 1~65535.

(a)hua								
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
> Camera	SNMP							?
▼ Network	SNMP Version	SNMP v1 SNMP v2 S	NMP v3					
> TCP/IP								
> Connection	SNMP Port	161 (1~6	(5535)					
> PPPoE	Read Community	public						
> DDNS	Write Community	private						
> IP Filter	Trap Address							
> SMTP(Email)	Trap Port	162						
> UPnP	Keep Alive							
> SNMP	Bandantullananan							
> Bonjour	Read-only Username	public						
> Multicast	Authentication Type	MD5 O SHA						
> 802.1x	Authentication Password							
> 005	Encryption Type	CBC-DES						
Event	Encryption Password							
> Temperature	Read&write Username	private						
Svetem	Authentication Type	MD5 O SHA						
Information	Authentication Password							
	Encryption Type	CBC-DES						
	Encryption Password							
	Enoryphon r doomend			_				
		Default Refresh	Save					

Figure 5-21

Check SNMP v3 version and SNMP port, read community, write community, Trap address, Trap port are same with SNMP v1 and SNMP v2 versions. Only when SNMP version is SNMP v3, users need to configure parameter in chart.

Parameter	Function
SNMP Version	SNMP v3
Read-only Username	Default is public. Note: Name only can be number, letter and underline.
Read/Write Username	Default is private. Note: Name only can be number, letter and underline.
Authentication	You may select MD5 or SHA, default is MD5.
Authentication Password	Password not less than 8 characters.



Parameter	Function
Encryption	Default is CBC-DES.
Encryption Password	Password not less than 8 characters.

5.2.9 Bonjour

The Bonjour interface is shown as below. See Figure 5-22.

Bonjour is based on the multicast DNS service from the Apple. The Bonjour device can automatically broadcast its service information and listen to the service information from other device.

You can use the browse of the Bonjour service in the same LAN to search the network camera device and then access if you do not know the network camera information such as IP address.

You can view the server name when the network camera is detected by the Bonjour. Please note the safari browse support this function. Click the "Display All Bookmarks: and open the Bonjour, system can auto detect the network camera of the Bonjour function in the LAN.

TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	Bonjour							?
▼ Network	Enable							Ĭ
> TCP/IP	Server Name	20.15.07.14.15.09						
> Connection	Generitanie							
> PPPoE		Default Refresh	Save					
> DDNS								
> IP Filter								
> SMTP(Email)								
> UPnP								
> SNMP								
> Bonjour								
> Multicast								
> 802.1x								
> QoS								
Event								
Temperature								
Storage								
System								
Information								

Figure 5-22

5.2.10 Multicast

The multicast interface is shown as in Figure 5-23.

Multicast is a transmission mode of data packet. When there is multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

Note:



- Open preview, streaming media protocol, select multicast, and monitor via multicast format.
- Here you can set multicast address and port. You also need to go to Live interface to set the protocol as Multicast.

alhua			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	Multicast							?
	Main Stream			Sub Stream	ı			
> Connection > PPPoE > DDNS	 Enable Multicast Address Port 	224 1 2 4 (224.0.0) 40000 (1025~655)	~239.255.255.255) 534)	 Enable Multicast / Port 	Address 224 40008	1.2.4	(224.0.0.0~239.255.2) (1025~65534)	55.255)
> IP Filter > SMTP(Email) > UPnP	[Default Refresh	Save					
> SNMP > Bonjour > Multicast > 802.1x								
> QoS Event								
 Temperature Storage System Information 								

Figure 5-23

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Select to enable multicast function. Main stream and sub stream cannot be used at the same time.
Multicast address	Main/sub stream multicast default address is 224.1.2.4 and its range is 224.0.0.0 \sim 239.255.255.255.
Port	Multicast port. Main stream is 40000, sub stream is 40002 and the range is 1025 \sim 65534.

5.2.11 802.1x

802.1x (port based network access control protocol) supports manual selection of authentication method to control if device connected to LAN can join the LAN. It well supports authentication, charging, safety and management requirement of network.



TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
► Camera	802.1x							?
Vetwork CCP/IP Connection PPPoE DDNS UB Stars	 Enable Authentication Username Password 	PEAP V none						
> IP Filter > SMTP(Email) > UPnP		Default Refresh	Save					
> SNMP > Bonjour > Multicast > 802.1x								
> QoS Event Temperature Storage System								
▶ Information								

Figure 5-24

Please refer to the following sheet for detailed information.

Parameter	Function
Authentication	PEAP (protected EAP protocol).
Username	It needs the username to login, which is authenticated by the server.
Password	Please input password here.

5.2.12 QoS

The QoS interface is shown as below. See Figure 5-25.

Qos (Quality of Service) is network security mechanism. It is a technology to fix the network delay and jam problem and etc. For the network service, the quality of service includes the transmission bandwidth, delay, the packet loss and etc. We can guarantee the transmission bandwidth, lower the delay, reduce the loss of the data packet and anti-dither to enhance the quality.

We can set the DSCP (Differentiated Services Code Point) of the IP to distinguish the data packet so that the router or the hub can provide different services for various data packets. It can select the different queues according to the priority (64 different priority levels) of the packets and select the bandwidth of the each queue. Level 0 is the lowest, and level 63 is the highest. It can also discard at the different ratio when the broad bandwidth is jammed.



Ahua								
			Live	Playback	Report	Setup	Alarm	Logout
Camera	QoS							?
▼ Network	Realtime Monitor	0 (0~63)						
> TCP/IP	Command	0 (0~63)						
> Connection		•						
> PPPoE		Default Refresh	Save					
> DDNS								
> IP Filter								
> SMTP(Email)								
> UPnP								
> SNMP								
> Bonjour								
> Multicast								
> 802.1x								
> QoS								
▶ Event								
Temperature								
Storage								
> System								
Information								



Please refer to the following sheet for detailed information.

Parameter	Function
Real-time monitor	The value ranges from 0 to 63. The router or the switcher can provide different service for various data packets.
Command	The value ranges from 0 to 63. The router or the switcher can provide different service for various data packets.
Enable Wireless QoS	Check it to enable QoS.

5.3 Event

5.3.1 Video detect

5.3.1.1 Motion Detect

The motion detect interface is shown as in Figure 5-26 through Figure 5-27.



alhua			Live	Playback	Report	Setup	Alarm	Logout
> Camera	Motion Detect							?
Network	Enable							
⊤ Event								
> Video Detect	Working Period	Setup						
> IVS Analyse	Anti-Dither	0 Second (0~100)						
> Temperature Alarm	Area	Setup						
> Fire Alarm								
> Alarm	Record							
> Abnormality	Record Delay	10 Second (10~300)						
▶ Temperature	 Relay-out 							
Storage	Alarm Delay	10 Second (10~300)						
⊳ System	Send Email							
Information	Snapshot							
		Default Refresh	Save					





Figure 5-27



Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You need to check the box to enable motion detection function.
Working Period	Here you can set arm/disarm period. Click on set button to open period setup menu. There are six periods every day for setup and you must check box in front of each period to enable it. Note: Period setup can be done by dragging mouse while not release left mouse.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.
Area	Here you can set motion detection region and its sensitivity and area. (The higher the sensitivity is, the easier to trigger motion detect; the smaller the area, the easier to trigger motion detect.) The default covers all regions. You must click on save before enabling your setup.
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	You need to check the box here so that system can backup motion detection snapshot file. You shall set snapshot period in Storage>Schedule.

See Figure 5-28.



Dahua IR Thermal Imaging Network Camera Web3.0 Operation Manual

Area



Figure 5-28

Different colors represent different areas. Each area can set different detection zones. Detection zone can be irregular and discontinuous. If device monitoring zone is large, user can sub-divide the area into several zones for better motion detect.

Parameter	Function
Name	Default area name includes Region0, Region1, Region2, Region3 and custom.
Sensitivity	It is sensitivity of brightness as motion detection is more possible to be trigger with high sensitivity. You can set up to four areas. The range is 0~100. The recommenced value is 30~70.
Area threshold	It is to check target object area related to detection area. The lower the area threshold, the easier to trigger motion detection. You can set up to four areas. The range is 0~100. The recommenced value is 0~10.
Waveform	Red means motion detect is triggered. Green means motion detect is not triggered.



Delete all	Clear all areas.
Delete	Delete selected area.

5.3.2 IVS Analyse

Note:

Some models don't support IVS Analyse function. See Figure 5-29.





Figure 5-29





Figure 5-30

Parameter	Note
Enable	Check it to enable tripwire rule.
Add/Clear	Click 🗄 to add rule. Click 📠 to clear rule.
Draw Rule	Click it to draw corresponding rule in the image.
Clear	Click it to clear the drawn rules.
Target Filter	After selecting max size or min size, click button model of filter target aiming at this rule; click button filter model which has been drawn.



Parameter	Note	
Working Period	 It is to set the alarm period, it can enable alarm event only in the set time range. There are six periods every day for setup and you must check box in front of each period to enable it. Select days (Sunday by default, if select all the week, then it means applying the setup into the whole week; you can also check the box in front of the day and make setting for some days separately). Click "OK" button after completing setup, go back to motion detect setting page, click "OK" button to finish working period setup of motion detect 	
Direction	It is to select tripwire direction, you can select A->B、B->A、A<->B	
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.	
Record Delay	System can delay the alarm record for specified time after alarm ended. The value ranges from 10s to 300s.	
Relay out	Check it to enable alarm activation output port, the system can activate corresponding alarm output device when alarm occurs.	
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.	
Send Email	If you enabled this function, System can send out email to alert you when	
	alarm occurs. User can set his email address in Network>SMTP.	
Snapshot	You need to check the box here so that system can auto alarm snapshot when alarm occurs. You shall set snapshot period in Storage>Schedule.	



5.3.2.2 Intrusion



Figure 5-31



Dahua IR Thermal Imaging Network Camera Web3.0 Operation Manual



Figure 5-32

Parameter	Note
Enable	Check it to enable intrusion.
Add/Clear	Click 🗄 to add rule. Click 📠 to clear rule.
Draw Rule	Click it to draw corresponding rule in the image.
Clear	Click it to clear the drawn rules.
Target Filter	After selecting max size or min size, click button model of filter target aiming at this rule; click button Clear to clear the target filter model which has been drawn.



Parameter	Note		
Working Period	 It is to set the alarm period, it can enable alarm event only in the set time range. There are six periods every day for setup and you must check box in front of each period to enable it. Select days (Sunday by default, if select all the week, then it means applying the setup into the whole week; you can also check the box in front of the day and make setting for some days separately). Click "OK" button after completing setup, go back to motion detect setting page, click "OK" button to finish working period setup of motion detect 		
Direction	It is to select intrusion direction; you can select Enter, Leave, Enter & Leave.		
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.		
Record Delay	System can delay the alarm record for specified time after alarm ended. The value ranges from 10s to 300s.		
Relay out	Check it to enable alarm activation output port, the system can activate corresponding alarm output device when alarm occurs.		
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.		
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs. User can set his email address in Network>SMTP.		
Snapshot	You need to check the box here so that system can auto alarm snapshot when alarm occurs. You shall set snapshot period in Storage>Schedule.		

5.3.2.3 Scene Change





Dahua IR Thermal Imaging Network Camera Web3.0 Operation Manual



Figure 5-34

Parameter	Note			
Enable	Check it to enable scene change function.			
Working Period	 It is to set the alarm period, it can enable alarm event only in the set time range. There are six periods every day for setup and you must check box in front of each period to enable it. Select days (Sunday by default, if select all the week, then it means applying the setup into the whole week; you can also check the box in front of the day and make setting for some days separately). Click "OK" button after completing setup, go back to motion detect setting page, click "OK" button to finish working period setup of motion detect 			
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.			
Record Delay	System can delay the alarm record for specified time after alarm ended. The value ranges from 10s to 300s.			



Parameter	Note
Relay out	Check it to enable alarm activation output port, the system can activate corresponding alarm output device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs. User can set his email address in Network>SMTP.
Snapshot	You need to check the box here so that system can auto alarm snapshot when alarm occurs. You shall set snapshot period in Storage>Schedule.

5.3.3 Temperature Alarm

Note:

Some models don't support temperature alarm function.

Alhua								
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	Temperature Alarm							?
Network	Enable							
⊤ Event								
> Video Detect	Working Period	Setup						
> IVS Analyse	Anti-Dither	0 Second (0~100)						
> Temperature Alarm								
> Fire Alarm	C Record							
> Alarm	Record Delay	10 Second (10~300)						
> Abnormality	Relay-out							
► Temperature	Alarm Delay	10 Second (10~300)						
Storage	Send Email							
System	Snapshot							
Information		Default Refresh	Save					
		I Reliesii	0000					

Figure 5-35

Parameter	Note
Enable	You need to check the box to enable alarm activation



Parameter	Note	
Working Period	 It is to set the alarm period, it can enable alarm event only in the set time range. There are six periods every day for setup and you must check box in front of each period to enable it. Select days (Sunday by default, if select all the week, then it means applying the setup into the whole week; you can also check the box in front of the day and make setting for some days separately). Click "OK" button after completing setup, go back to motion detect setting page, click "OK" button to finish working period setup of motion detect Note: Period setup can be done by dragging mouse while not releasing left mouse. 	
Anti-Dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.	
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.	
Record Delay	System can delay the alarm record for specified time after alarm ended. The value ranges from 10s to 300s.	
Relay out	Check it to enable alarm activation output port, the system can activate corresponding alarm output device when alarm occurs.	
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.	
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs. User can set his email address in Network>SMTP.	
Snapshot	You need to check the box here so that system can auto alarm snapshot when alarm occurs. You shall set snapshot period in Storage>Schedule.	

5.3.4 Fire Alarm

Note:

Some models don't support fire alarm function.





Figure 5-36

Parameter	Note
Enable	You need to check the box to enable local config function.
Target Size	It is to the minimum target which can be recognized by fire alarm, it will generate alarm when exceeding target pixel.
Sensitivity	It is to set the alarm sensitivity, ranging from 1 to 100. The higher the sensitivity is, the easier it will generate alarm, but it may generate false alarm.
Redraw Rule	Click Redraw Rule to redraw the corresponding rules.
Measurement Items	Click to add new area, click the corresponding to delete the measurement item.



Parameter	Note						
Working Period	 It is to set the alarm period, it can enable alarm event only in the set time range. There are six periods every day for setup and you must check box in front of each period to enable it. Select days (Sunday by default, if select all the week, then it means applying the setup into the whole week; you can also check the box in front of the day and make setting for some days separately). Click "OK" button after completing setup, go back to motion detect setting page, click "OK" button to finish working period setup of motion detect Note: Period setup can be done by dragging mouse while not releasing left mouse. 						
Anti-Dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.						
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.						
Record Delay	System can delay the alarm record for specified time after alarm ended. The value ranges from 10s to 300s.						
Relay out	Check it to enable alarm activation output port, the system can activate corresponding alarm output device when alarm occurs.						
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.						
Send Email	If you enabled this function, System can send out email to alert you when fire alarm occurs. User can set his email address in Network>SMTP.						
Snapshot	You need to check the box here so that system can auto alarm snapshot when alarm occurs. You shall set snapshot period in Storage>Schedule.						



5.3.5 Alarm

Please note some series products do not support this function.

5.3.5.1 Alarm

		Live	Playback	Report	Setup	Alarm	Logout
Relay Activation							?
Enable							
Relay-in	Alarm1						
i tolay in	Aann						
Working Period	Setup						
Anti-Dither	0 Second (0~100)	Sensor Type NO	•				
Record							
Record Delay	10 Second (10~300)						
 Relay-out 							
Alarm Delay	10 Second (10~300)						
Send Email							
Snapshot							
	Default	8210					
	Reliesi	Jave					
	Relay Activation Enable Relay-in Working Period Anti-Dither ✓ Record Record Delay ✓ Relay-out Alarm Delay Send Email Snapshot	Relay Activation Enable Relay-in Alarm1 Working Period Setup Anti-Dither 0 Second (0~100) Record Record Delay 10 Arm Delay 10 Send Email Snapshot	Live Live Live	Live Playback Relay Activation Enable Relay-in Alarm1 Working Period Setup Anti-Dither 0 Second (0~100) Ø Record (0~100) Sensor Type Record Record Delay 10 Aram Delay 10 Second (10~300) Ø Record (10~300) Send Email Snapshot Default Refresh	Live Playback Report Relay Activation Relay-in Alarm1 Working Period Setup Anti-Dither Record Record Record Record Harm 10 Second (10~300) Relay-out Alarm Delay 10 Second (10~300) Default Refresh Save	Live Playback Report Setup Relay Activation Enable Relay-in Alarm1 Working Period Setup Anti-Dither 0 Second (0~100) Sensor Type NO<▼ Record Record Delay Relay-out 10 Second (10~300) Send Email Save	Live Playback Report Setup Alarm Relay-Activation Enable Relay-in Alarm1 Working Period Setup Anti-Dither 0 Second (0~100) Secord Record Delay 10 Relay-out Alarm 10 Second (10~300) Send Email In Second (10~300) Send Email Default Refresh

Figure 5-37

Parameter	Note
Enable	Check the box to enable relay activation.
Working Period	 It is to set the alarm period, it can enable alarm event only in the set time range. There are six periods every day for setup and you must check box in front of each period to enable it. Select days (Sunday by default, if select all the week, then it means applying the setup into the whole week; you can also check the box in front of the day and make setting for some days separately). Click "OK" button after completing setup, go back to motion detect setting page, click "OK" button to finish working period setup of motion detect
Anti-Dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.
Sensor Type	Able to set NC and NO.
Record	System auto activates motion detection channel to record once alarm occurs (working with motion detection function). Meanwhile users have to set record period of alarm in "Storage>Schedule" and select auto record in the record control interface.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.



Parameter	Note
Relay-out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	After this function is enabled, system can send out email to alert you when alarm occurs and ends. Users can set his own email address in "Network Setting > SMTP".
Snapshot	After you enabled snapshot, the system will automatically snapshot if alarm occurs. Meanwhile you have to set snapshot period of alarm in the "storage>Schedule".

5.3.6 Abnormity

Abnormity includes No SD Card, Capacity Warning, SD Card Error, Disconnection, IP Conflict and Unauthorized Access.

Note:

Only device with SD card function has these three statuses: No SD card, capacity warning, and SD card error.

Device without SD card function does not have the above three statuses. See Figure 5-38.



Figure 5-38



(a)hua				Live	Playback	Report	Setup	Alarm	Logout
TECHNOLOGY				Live	Thayback	Report	octup	Alarm	Logout
Camera	SD Card	Network	Illegal Acce	ss					?
Network	Event Type	SD Card Error	•						
⊤ Event	Enable	ob our End							
> Video Detect	Enable								
> IVS Analyse	Relay-out								
> Temperature Alarm	Alarm Delay	10 Second	(10~300)						
> Fire Alarm	Send Email								
> Alarm		Default	Refresh	Save					
> Abnormality									
Temperature									
Storage									
System									
Information									





Figure 5-40

Parameter	Function
Event Type	Three event types to cause SD card abnormity: No SD card, SD card capacity warning, and SD card error.
Enable	Check to alarm when SD card is abnormal.
Relay-out	Check to enable relay-out alarm.
Relay out delay	The alarm output can delay for the specified time after alarm stops. The value ranges from 10s to 300s.
	Note:
	No SD card, capacity warning, SD card error, relay-out delay all start from alarm occurs.
Send email	After you enabled this function, the system can send out email to alarm the specified user.
	This function is invalid when network is offline or IP conflict occurs.



Parameter	Function
SD Card Capacity Limit	User can set SD card capacity that is left free. When SD card space left is smaller than this limit, alarm occurs.

When device is offline or IP conflicts, the abnormal alarm is similar with case of SD card error.

Alhua									
TECHNOLOGY				Live	Playback	Report	Setup	Alarm	Logout
Camera	SD Card	Network	Illegal Acce	ess					?
Network	Event Type	Disconnection	*						
▼ Event									
> Video Detect									
> IVS Analyse	 Record 								
> Temperature Alarm	Record Delay	10 Secor	nd (10~300)						
> Fire Alarm	 Relay-out 								
> Alarm	Alarm Delay	10 Secon	nd (10~300)						
> Abnormality		Default	Refresh	Save					
▶ Temperature									
Storage									
▶ System									
► Information									

Figure 5-41

Alhua									
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout	
> Camera	SD Card	Network	Illegal Acce	ess					?
Network	Event Type	IP Conflict	•						
⊤ Event	Enable								
> Video Detect	Record								
> IVS Analyse	Record Delay	10 8000	nd (10200)						
> Temperature Alarm	Record Delay	10 Sect	iiiu (10~300)						
> Fire Alarm	elay-out								
> Alarm	Alarm Delay	10 Seco	nd (10~300)						
> Abnormality		Default	Refresh	Save					
Temperature									
Storage									
System									
Information									



When login password keep been wrong for a few times, unauthorized access alarm occurs. This operation is similar to SD card error. Allow login error times as when it exceeds this limit, user account will be locked.


Alhua									
CECHNOLOGY				Live	Playback	Report	Setup	Alarm	Logout
Camera	SD Card	Network	lllegal Acce	55					?
Network	Enable		-						
⊤ Event		3 time (3~10)						
> Video Detect	Bolov out	J	3-10)						
> IVS Analyse	Relay-out								
> Temperature Alarm	Alarm Delay	10 Secor	id (10~300)						
> Fire Alarm	Send Email								
> Alarm		Default	Refresh	Save					
> Abnormality									
Temperature									
> Storage									
> System									
▶ Information									



5.4 Temperature

Note:

Some models don't support temperature measurement function.

5.4.1 Rule Setup

5.4.1.1 Parameter Config

Alhua			_						
TECHNOLOGY				Live	Playback	Report	Setup	Alarm	Logout
🕨 Camera	Rule								?
Network	No. of Concession, Name				arame Config	✓ Measurement Items		÷ +	
▶ Event			2015-09-25 18:36:07	Fri Mala		I spot		品 ^	
🔻 Temperature				• •	emperature	 2: ⊷Line1 		命	
> Rule		OSpet1	Max:22	.3		✓ 3: □Area1		<u>ش</u>	
> Global	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
> heatmap									
▶ Storage		Linel						Ψ.	
System	and the second second								
Information	2.2					🕑 Open Local Config			
						Target Radiation Coeff	icient 0.95		
	and the second second	1	Min:11	\$		Target Distance	10	m	
						Tarnet Reflection Tem	nerature 0		
	TPC					rarger tenedaen fem			
						Relay-out			
						Alarm Results	Max	•	
			Redraw R	ule		Alarm Condition	Below	•	
						Alarm Threshold Temp	perature 20	°C	
						Temperature Error	+/- 0.1	°C	
						Duration Of Temperate	ure 30	s	
					[Default	efresh S	Save	
					L.				



Parameter	Note
Measurement Items	Click to add new spot, line and area, click corresponding to delete the measurement item.
Open Local Config	Check it to enable local config function.
Target Radiation Coefficient	It is to set the target emissivity, 0~1 optional.
Target Distance	It is to set the distance between camera and target, 0 \sim 1000m optional.
Target Reflection Temperature	It is to set the target temperature, 0 \sim 550 $^\circ\!\mathrm{C}$ optional.
Relay Out	Check it to enable relay out function.
Alarm Result	 It is to set the temperature value mode of triggering alarm. Spot: optional value Line: able to select max, min and average. Area: able to select max, min, average, standard and middle
Alarm Condition	It is to set alarm condition, optional below, match and above.
Alarm Threshold Temperature	It is to set the threshold temperature of triggering alarm, 0 \sim 550°C optional.
Temperature Error	It is to set temperature error, $0{\sim}10^\circ\!\mathrm{C}$ optional.
Temperature Duration	It will trigger alarm when the temperature is above the alarm threshold temperature and exceed the set duration temperature. Temperature duration $0\sim1000s$ optional.
Redraw Rule	Click Redraw Rule to redraw corresponding rule.

When the temperature of designated spot, line or area meets the condition of triggering alarm, it will continue to flicker to red as alarm hint in the preview interface. See Figure 4-82.

Note:

It will display alarm result in the preview interface only when check "Enable "in the "Event > Temperature Alarm" and set appropriate "Working Period".





Figure 5-45

5.4.1.2 Temperature Contrast

Note:

The function is only supported by some models.





Temperature contrast function means comparing the temperature of selected spot, line or area and display the result on the preview interface, the steps are shown as follows:

Step 1 Click + to add contrast record.

Step 2 Select the target which needs to be compared, see Figure 5-47.



Figure 5-47

Step 3 Click 凹 to save, then you can see the contrast result of the selected target on the left of



preview interface, see Figure 5-48.

Figure 5-48



5.4.2 Global



Figure 5-49

Parameter	Note				
Temperature Switch	Check it to enable temperature switch function.				
Temperature Unit	It is to set the displayed temperature unit, $^\circ\! \mathbb C$ and F optional.				
Relative Humidity	t is to set the environment relative humidity, 0 \sim 100% RH optional.				
Atmospheric Temperature	It is to set environmental temperature, $0{\sim}100^\circ\!\mathrm{C}$ optional.				
Physical Radiation Coefficient	It is to set physical radiation coefficient, $0 \sim 1$ optional.				
Object Distance	It is to set physical distance, 0 \sim 100m optional.				
Object reflective Temperature	It is to set the object reflective temperature, $0{\sim}100^\circ\!\!\mathbb{C}$ optional.				
Hot Spot Follow	Check it to enable the function of hot spot detection tracing.				
High CTMaker Color	It is to set the display color of high temperature.				



Parameter	Note					
Low CTMaker Color	It is to set the display temperature of low temperature.					
Isotherm	It is to select if enable isotherm function.					
	It is to set min temperature.					
Min Temperature	• When gain mode is under low temperature mode, it is -40 $^\circ\!\!\!C \sim$ 160 $^\circ\!\!\!C$ optional.					
	• When gain mode is under high temperature mode, it is -40 $^\circ\!\mathrm{C}{\sim}600^\circ\!\mathrm{C}$ optional.					
	It is to set medium temperature.					
Medium temperature	• When gain mode is low temperature, it is -40 $^\circ$ C \sim 160 $^\circ$ C optional.					
	• When gain mode is high temperature, it is $-40^{\circ}C \sim 600^{\circ}C$ optional.					
	It is to set max temperature.					
Max Temperature	• When gain mode is low temperature, it is -40° C \sim 160 $^{\circ}$ C optional.					
	• When gain mode is high temperature, it is -40° C \sim 600 $^{\circ}$ C optional.					
	It is to saturation temperature.					
Saturation	• When gain mode is low temperature, it is -40° C $\sim 160^{\circ}$ C optional.					
	• When gain mode is high temperature, it is -40° C $\sim 600^{\circ}$ C optional.					
Color Code	It is to select if enable color code.					

5.4.2.1 Temperature Switch

Temperature switch function is mainly used to realize real-time temperature measurement aiming at some certain spot and display the temperature on the preview interface. As it is shown in Figure 5-50, when the mouse moves to one spot, it will display the temperature of the spot.







5.4.2.2 Hot Spot Follow

After enabling hot spot follow function, it will display max temperature spot and min temperature spot in the preview interface, and set the corresponding color via "High CTMaker Color" and "Low CTMaker Color" (see Figure 4-89), it will display corresponding high and low temperature color respectively, see Figure 5-51.







Figure 5-52

5.4.2.3 Isotherm

Isotherm function is mainly used for the highlighted object in the high brightness image, take medium temperature as the basis, max temperature and min temperature are the floating range, display the area between max temperature and min temperature with bright color, and other areas will be displayed as black, gray and white, see Figure 4-93.





Note:

Min temperature <= Medium temperature <= Max temperature <= Saturation temperature







5.4.2.4 Color Code

After checking color code, it will display corresponding color code on the right of the preview interface, which can be used to present the color change between min temperature and max temperature. See Figure 5-55.



Figure 5-55



5.4.3 Heatmap

Albua							
CECHNOLOGY		Live	Playback	Report	Setup	Alarm	Logout
Camera	heatmap						?
Network	Export beatMap						
Event	any or the autop						
Temperature							
> Rule							
> Global							
> heatmap							
Storage							
> System							
Information							

Figure 5-56

Parameter	Note
Export Heatmap	Click it to export heatmap.

5.5 Storage Management

5.5.1 Schedule

Before schedule setup, user must set record mode is auto or manual.

Note:

If record mode in record control is off, then device will not snapshot according to schedule.

5.5.1.1 Record Schedule

Record schedule steps:

Step 1. Click on Record Schedule, see Figure 5-57.





Step 2. From Monday to Sunday select record time, click on setup on the right, see Figure 5-58.

- Set period according to actual need. There are six periods available each day.
- By checking or unchecking, you can add or delete three types of record schedule: General, Motion, and Alarm.

Note:

Period setup can be done by dragging in record schedule interface while not releasing left mouse.

Setup		×
		1
🔲 All	🗸 Sunday 📄 Monday 📄 Tuesday 📄 Wednesday 📄 Thursday 📄 Friday 📄 Saturday 📄 Holiday	
Period 1:	00 : 00 : 00 - 23 : 59 : 59 🔲 General 🗹 Motion	
Period 2:	00 : 00 : 00 - 23 : 59 : 59 General Motion	
Period 3:	00 : 00 : 00 - 23 : 59 : 59 General Motion	
Period 4:	00 : 00 : 00 - 23 : 59 : 59 Ceneral Motion	
Period 5:	00 : 00 : 00 - 23 : 59 : 59 General Motion	
Period 6:	00 : 00 : 00 - 23 : 59 : 59 General Motion	
	Save Cancel	

Figure 5-58

Step 3. Click on OK, return to record schedule interface. See Figure 5-59.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot.
- Red color stands for the alarm record/snapshot.





Step 4. In record schedule interface, click on OK. System prompts it is successfully saved.

5.5.1.2 Snapshot Schedule

Snapshot setup as:

Step 1. Click on Snapshot Schedule tab, see Figure .

alhua								
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
Camera	Record Schedule	e Snapshot Schedule Holiday Sc	hedule					?
Network				Motion Alarr	m 📕			
Event		0 2 4 6 8 10 1	2 14 16	18 20 22	24			
Temperature	Sunday				Setup			
▼ Storage	Monday				Cotup			
> Schedule	Ture day				Setup			
> Destination	Tuesday				Setup			
> Record Control	Wednesday				Setup			
System	Thursday				Setup			
Information	Friday				Setup			
	Saturday				Setup			
	Holiday				Sotup			
					Jetup			
		Default Refresh S	Save					



Step 2. From Monday to Sunday select snapshot time, click on setup on the right. See Figure 5-61.

- Set snapshot period according to actual need. There are six periods available each day.
- By checking or unchecking, user can add or delete three types of snapshot schedule: General, Motion and Alarm.

Note: Period setup can be done by dragging in snapshot schedule interface while not releasing left mouse.

Setup		X
	Runder - Mander - Tuesday - Wednesday - Thursday - Friday - Schurdey - Usliday	
	Sunday Monday Tuesday Wednesday Thursday Friday Saturday Honday	
Period 1:	00 : 00 : 00 - 23 : 59 : 59 V General V Motion	
Period 2:	00 : 00 : 00 - 23 : 59 : 59 General Motion	
Period 3:	00 : 00 : 00 - 23 : 59 : 59 General Motion	
Period 4:	00 : 00 : 00 - 23 : 59 : 59 🖸 General 🗖 Motion	
Period 5:	00 : 00 : 00 - 23 : 59 : 59 General Motion	
Period 6:	00 : 00 : 00 - 23 : 59 : 59 General Motion	
	Save Cancel	

Figure 5-61



Step 3. Click on OK, return to snapshot schedule interface. See Figure 5-62.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot.
- Red color stands for the alarm record/snapshot.

(a)hua			Livo	Playback	Bonort	Setup	Alarm	Locout
V TECHNOLOGY			Live	Flayback	Report	Setup	Alarm	Logout
▶ Camera	Record Schedule	e Snapshot Schedule Holiday S	chedule					?
Network			🖉 General 🗖 🖉	Motion 📃 🖉 Alarr	m 📕			
Event) 2 4 6 8 10 1	12 14 16	18 20 22	24			
Temperature	Sunday		12 11 10	10 20 22	Setun			
▼ Storage	Manday							
> Schedule	Monday				Setup			
> Destination	Tuesday				Setup			
> Record Control	Wednesday				Setup			
System	Thursday				Setup			
Information	Friday				Setup			
	Saturday				Setup			
	Holiday				Setup			
		Default Refresh	Save					



Step 5. In snapshot interface, click on OK. System prompts it is successfully saved.

5.5.1.3 Holiday Schedule

Holiday schedule can set specific date as holiday.

Step 1. Click on Holiday Schedule tab, see Figure 5-63.







Step 2. Select date to set as holiday. The selected date will be highlighted in yellow.

Step 3. Check Record/Snapshot, click on Save. System prompts it is successfully saved.

Step 4. Check Record Schedule/Snapshot Schedule interface, click on setup next to Holiday, refer to setup of Monday to Sunday.

Step 5. Complete setup of holiday, then it records/snapshots according to date in holiday schedule.

5.5.2 Destination

5.5.2.1 Path

The destination interface is shown as in Figure 5-64.

Path can config record and snapshot storage path. There are three options: Local, FTP and NAS. You can only select one mode. System can save according to the event types. It is corresponding to the three modes (general/motion/alarm) in the Schedule interface. Please check the box to enable the save functions.

Alhua									
				Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	Path	Local	FTP	N	IAS				?
Network	Record	-	-		Snapshot				
Event	Event Type	Scheduled	Motion Detect	Alarm	Event Type	Scheduled	Motion Detect	Alarm	
► Temperature	Local			e	Local	e		e	
⊤ Storage	FTP				FTP				
> Schedule	NAS				NAS				
> Destination	Default	Refresh	Save						
> Record Control	Delaun	Keiresii	Save						
System									
▶ Information									

Note: Only device supports SD card has local.

Figure 5-64

Please refer to the following sheet for detailed information.

Parameter	Function
Event Type	It includes: scheduled, motion detect and alarm.
Local	It saved in the SD card.
FTP	It saved in the FTP server.
NAS	It saved in NAS disk.

5.5.2.2 Local

The local interface is shown as in Figure 5-65.

Here you can view local Micro SD card or NAS disk information. You can also operate the read-only, write-only, hot swap and format operation.



alhua									
TECHNOLOGY				Live	Playback	Report	Setup	Alarm	Logout
> Camera	Path	Local	FTP	N	AS				?
Network	Device Na	ime	Status	Attribute	_	Use	d Capacity/Total Capa	city	
▶ Event									^
▶ Temperature									
▼ Storage									
> Schedule									
> Destination									
> Record Control									
System									
Information									-
	Read Only	Read & Write H	ot Swap	Refresh					Format

Figure 5-65

5.5.2.3 FTP

The FTP interface is shown as in Figure 5-66.

You need to check the box to enable the FTP function. When network disconnect occurred or there is malfunction. Emergency storage can save the record/snapshot picture to the local SD card.

Alhua									
TECHNOLOGY				Live	Playback	Report	Setup	Alarm	Logout
► Camera	Path	Local	FTP	N	AS				?
Network	Enable								
Event	Server Address	_	_						
Temperature	Port	21	(0~65535)						
▼ Storage	UserName	anonymity	(* ******						
> Schedule	Password	anonymity							
> Destination	Remote Directory	share							
> Record Control	Emergency (Local)	Sildre							
System	Energency (Eocal)								
Information		Default	Refresh	Save					



5.5.2.4 NAS

You need to check the box to enable the NAS function. Select NAS storage, fill in NAS server address and corresponding store path, then you can store video file or pictorial information in the NAS server.

Select NAS storage as to same file to NAS disk. See Figure 5-67.



alhua				Live	Playback	Report	Setup	Alarm	Logout
Camera Network Event Temperature Storage > Schedule > Destination > Record Control System Information	Path Enable Server Address Remote Directory	Local	FTP Refresh	Save	15				0

Figure 5-67

Parameter	Function
Server Address	Set IP address of NAS server.
Remote Directory	Set storage directory, videos and pictures can be stored in to corresponding server directory.

5.5.3 Record control

The record control interface is shown as in Figure 5-68.

Alhua								
CECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	Record Control							?
Network	Pack Duration	30 Minutes (1-	-120)					
Event	Pre-event Record	5 Second (0-	-5)					
► Temperature			.,					
▼ Storage	DISKFUII	Overwrite 🔻						
> Schedule	Record Mode	Auto O Manual O Off						
> Destination	Record Stream	Main Stream 🔻						
> Record Control		Default Refresh	Save					
System								
Information								

Figure 5-68

Parameter	Function
Pack Duration	Here you can select file size within 1min~120min. Default setup is 8 minutes.



Pre-record	Please input pre-record value here.
	For example, system can record the four seconds video in the buffer. The record begins from the fifth second.
	Note:
	Configure pre-record time, when alarm or motion detection occurs, if there is no record, system will record the preceding n seconds record.
Disk Full	 There are two options: stop recording or overwrite the previous files when HDD is full. Stop: Current working HDD is overwriting or current HDD is full, it will stop record. Overwrite: Current working HDD is full; it will overwrite the previous file.
Record mode	There are three modes: Auto/manual/close.
Record stream	There are two options: main stream and sub stream.

5.6 System

5.6.1 General

The General interface is shown as in Figure 5-69. .

(a)hua				Live	Playback	Report	Setup	Alarm	Logout
TECHNOLOGY									
Camera	General	Date&Time							\odot
Network	Device Name	20 15 07 15 09							
Event	Language	English	•						
Temperature	Video Ctondord	DAL	-						
Storage	video Standard	PAL	•						
⊤ System		Default	Refresh	Save					
> General									
> Account									
> Default									
> Import/Export									
> Auto Maintain									
> Upgrade									
▶ Information									

Figure 5-69

Parameter	Function
Device	It is to set device name.
Name	Note: Different devices have different names.



Video Standard	This is to display video standard such as PAL.
Language	You can select the language from the dropdown list.

The date and time interface is shown as in Figure 5-70.

(alhua)								
TECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	General	Date& Time						?
Network	Date Format	Year-Month-Day 🔹						
▶ Event	Time Format	24-Hour-based System V						
► Temperature	Time Zone	CMT+08-00						
Storage	Ourrent Time	GN1+00.00 -	10	-				
⊤ System		2015 - 09 - 25 19 4	10 : 21 Syncro					
> General	DST Enable							
> Account	DST Type	Date Week						
> Default	Start Time	Jan ▼ 1 ▼ 00 :	00 : 00					
> Import/Export	End Time	Jan ▼ 2 ▼ 00 :	00 : 00					
> Auto Maintain	Synchronize with NT	ïP						
> Upgrade	NTP Server	clock.isc.org						
▶ Information	Port	123						
	Update Period	10 Minutes (0~30)						
		Default Refrech	Savo					
		Delault	Jave					

Figure 5-70

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
System time	It is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.



NTP server	You can set the time server address.
Port	It is to set the time server port.
Update period	It is to set the sync periods between the device and the time server.

5.6.2 Account

- For the character in the following user name or the user group name, system max supports 15digits. The valid string includes: character, number, and underline.
- Password can be 0~32 characters in number and letter only. User can modify other user's password.
- The user amount is 18 and the group amount is 8 when the device is shipped out of the factory. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.
- Currently logged in user cannot change his/her own right.

•

5.6.2.1 Username

In this interface you can enable anonymity login, add/remove user and modify user name. See Figure 5-71.

alhua									
TECHNOLOGY			Liv	/e Playbac	k Report	Setup	Alarm	Logout	
▶ Camera	Account								?
Network									
▷ Event	User Name	Group							
► Temperature	No.	User Name	Group Name	_	Remark	_	Modify	Delete	
Storage	1	admin	admin		admin 's account		1	• ^	
🔻 System									
> General									
> Account									
> Default									
> Import/Export									
> Auto Maintain									
> Upgrade								v	
▶ Information	Authority List								1
	Live	Playback	Record Control	Backup	Account	Alarm			
	Log Search	Clear Log	Upgrade	Auto Maintain	General	Video/Audio			
	Schedule/Destination	Network	Abnormality	Video Detect	Default/Import/Expor	t Conditions			
	Temperature Config	Report Config	Temperature Correct	Fire Warning	IVS				
									1
	Add User								
									_

Figure 5-71



Enable anonymity login: Enable anonymity login, and input IP. No username or password is required, you can log in by anonymity (with limited rights). You can click logout to end your session.

Add user: It is to add a name to group and set the user rights. See Figure 5-72

There are four default users: admin/888888/666666 and hidden user "default". Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights,.

Hidden user "default" is for system interior use only and cannot be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

Here you can input the user name and password and then select one group for current user.

Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

Add User		×
User Name		
Password		
Password Strength	Weak Middle Strong	
Confirm Password		
Group	admin 🔹	
Remark		
Authority List	✓ AII	
	✓ Live	
	Playback	
	Record Control	
	🕑 Backup 👻	
5	Save Cancel	

Figure 5-72

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 5-73.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.



Please note, the password ranges from 0-digit to 32-digit. It shall include the number and letter only. For the user who has the account rights, he can modify the password of other users.

Modify User		×
User Name	admin 💌	
Modify Password		
Group	admin 💌	
Remark	admin 's account	
Authority List	✓ All	
	✓ Live	
	Playback	
	Record Control	
	✓ Backup	+
	Save Cancel	

Figure 5-73

5.6.2.2 Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 5-73.

(a)hua			Live	Playback	Report	Setup	Alarm	Logout	
TECHNOLOGY								Ligin	
Camera	Account								0
Network	Anonymous Login								
Event	User Name	Group							
Temperature	No.	Group Name		Remark			Modify	Delete	
Storage	1	admin		administrator	roup		1	•	^
⊤ System	2	user		user grou	5		1	•	
> General									
> Account									
> Default									
> Import/Export									
> Auto Maintain									
> Upgrade									÷
Information	Authority Lint								5
	Live	Playback	Record Control	Backup	Account	Alarm			
	Log Search	Clear Log	Upgrade	Auto Maintain	General	Video/Audio			
	Schedule/Destination	Network	Abnormality	Video Detect	Default/Import/Export	Conditions			
	Temperature Config	Report Config	Temperature Correct	Fire Warning	IVS				
	Add Group								
	Addition								



Add group: It is to add group and set its corresponding rights. See Figure 5-74.

Please input the group name and then check the box to select the corresponding rights. It includes: preview, playback, record control, PTZ control and etc.

Add Group		×
Group		
Remark		
Authority List	All	
	Live	^
	Playback	
	Record Control	
	Backup	-
	Save Cancel	

Figure 5-74

Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-75. Here you can modify group information such as remarks and rights.

Modify Group	E
Group	admin
Remark	administrator group
Authority List	✓ All
	▼ Live
	Playback
	Record Control
	🔽 Backup 👻
	Save Cancel

Figure 5-75



5.6.3 Default

The default setup interface is shown as in Figure 5-76.

Please note system cannot restore some information such as network IP address.

Alhua							
CECHNOLOGY		Live	Playback	Report	Setup	Alarm	Logout
Camera	Default						?
Network							
▶ Event	Default						
Temperature							
Storage							
🔻 System							
> General							
> Account							
> Default							
> Import/Export							
> Auto Maintain							
> Upgrade							
Information							



5.6.4 Import/Export

The interface is shown as in Figure 5-77.

Alhua							
CECHNOLOGY		Live	Playback	Report	Setup	Alarm	Logout
> Camera	Import/Export						?
Network	Backup Path						
Event							
▶ Temperature	Import Export						
Storage							
⊤ System							
> General							
> Account							
> Default							
> Import/Export							
> Auto Maintain							
> Upgrade							
▶ Information							

Figure 5-77

Please refer to the following sheet for detailed information.

Parameter	Function
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding system setup to your local PC.

5.6.5 Auto Maintenance

The auto maintenance interface is shown as in Figure 5-78.



Here you can select auto reboot and auto delete old files interval from the dropdown list.

If you want to use the auto delete old files function, you need to set the file period.

Alhua									
				Live	Playback	Report	Setup	Alarm	Logout
Camera	Auto Maintain								?
Network	Auto Reboot	Tuesday	▼ 02 : 0	0					
Event	Auto Delete Old Fil	les		-					
Temperature									
Storage	Manual Reboot								
🔻 System	Refresh	Save							
> General									
> Account									
> Default									
> Import/Export									
> Auto Maintain									
> Upgrade									
► Information									



Parameter	Function
Auto Reboot	Check it and set auto reboot time.
Auto Delete Old Files	Check it and set period within 1~31 days.

5.6.6 Upgrade

The upgrade interface is shown as in Figure 5-79.

Please select the upgrade file (file extension is ".bin") and then click the update button to begin firmware update.

Important

Improper upgrade program may result in device malfunction!



Figure 5-79



5.7 Information

5.7.1 Version

The version interface is shown as in Figure 5-80.

Here you can view system hardware features, software version, release date and etc. Please note the following information is for reference only.

(a)hua			Live	Playback	Report	Setup	Alarm	Logout
	Version							
	version							
 Event 	Device Type	TPC-BF5600A-T						
▶ Temperature	Software Version	2.400.0000.1.R, build : 2015-09-23						
Storage	WEB Version	3.2.1.296855						
System	CINVIF Version	2.4.1						
▼ Information	S/N	20:15:07:14:15:09						
> Version	0/14	20.10.01.14.10.00						
> Online User	Copyright 2015,All F	Rights Reserved.						

Figure 5-80

5.7.2 Log

Here you can view system log. See Figure 5-81.

Alhua		_					
CECHNOLOGY		Live	Playback	Report	Setup	Alarm	Logout
▶ Camera	Log						?
Network	Start Time 2015 00 24 10 55 544	End Time	2015 00 25	10 - 55 - 44			
▶ Event	Type All Type All	End fille	2015 - 09 - 25	19 . 55 . 44			
▶ Temperature	No. Log Time	_	Us	er Name	_	Event	
▶ Storage							A
System							
Information							
> Version							
> Online User							_
	Detailed Information						
							Go To 📄 🗭
	Backup					-	Clear
						L	

Figure 5-81

Please refer to the following sheet for log parameter information.



Parameter	Function
Start time	Set the start time of the requested log. (The earliest time is 2000/1/1)
End time	Set the end time of the requested log. (The latest time is 2037/12/31)
Туре	Log type.
Search	You can select log type from the drop down list and then click search button to view the list.
	You can click the stop button to terminate current search operation.
Log information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

5.7.3 Online User

The online user interface is shown as in Figure 5-82.

Here you can view current online user, group name, IP address and login time.

Alhua								
CECHNOLOGY			Live	Playback	Report	Setup	Alarm	Logout
> Camera	Online User							?
Network	No.	Username	User Local Group	IP	Address		User Login Time	
▶ Event	1	admin	admin	10.	15.6.145	20	15-09-25 18:12:42	^
▶ Temperature								
🕨 Storage								
▶ System								
▼ Information								
> Version								
> Log								
> Online User								-
	Refresh							

Figure 5-82



6 Alarm

Please note some series product does not support this function.

Click alarm function, you can see an interface is shown as in Figure 6-1.

Here you can set device alarm type and alarm sound setup.

(a)hua			Live	Blayback	Benert	Cotup	Alarm	Lorout
TECHNOLOGY			Live	Ріаураск	Report	Setup	Alarm	Logout
								?
Alarm Type		No.		Time		Alarm Type	Alarm	Channel
Motion Detect	Disk Full							
Disk Error	External Alarm							
🗆 Illegal Access	□ IVS							
Temperature Alarm	Fire Alarm							
Operation								
Prompt								
Alarm Tone								
🗆 Play Alarm Tone								
Tone Path	Browse							

Figure 6-1

Туре	Parameter	Function
Alarm	Motion detection	System alarms when motion detection alarm
type		occurs,
	Disk full	System alarms when disk is full.
	HDD	System generates an alarm when HDD is
	malfunction	malfunction.
	External alarm	Alarm input device sends out alarm.
	Unauthorized	System alarms when there is unauthorized access.
	Access	
	IVS	Check it, and the system generates alarm when it
		meets the condition of IVS.
		Note: only some models support the function.
	Temperature	Check it, and the system generates alarm when
	Alarm	the temperature meets some certain threshold.
		Note: only some models support the function.
	Fire Alarm	Check it, and the system generates alarm when it
		meets the threshold of fire alarm.
		Note: only some models support the function.



Туре	Parameter	Function
Operation	Prompt	When alarm is triggered, there will be s inmain menu of alarm interface and system automatically records alarm info. The icon disappears when user click on alarm menu bar. Note: If alarm interface is displayed, when alarm is triggered, there will be no image prompt, but alarm record will be in list on the right.
Alarm	Audio	When alarm occurs, system auto generates alarm
audió		audio. The audio supports customized setup.
	Path	Here you can specify alarm sound file.



7 Log out

(a)nua TECHINOLOGY	
Username:	admin
Password:	
	Login Cancel

Click log out button, system goes back to log in interface. See Figure 7-1.



Note:

- This manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

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