Network Camera

User Manual

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Chapter1. Note

This Manual is applicable to Network Camera.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website.

Please use this user manual under the guidance of professionals.

Chapter2. Safety Instruction

These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into 'Warnings' and 'Cautions':

Warnings: Serious injury or death may be caused if any of these warnings are neglected.

Cautions: Injury or equipment damage may be caused if any of these cautions are neglected.

A	
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage.



- Please adopt the power adapter which can meet the safety extra low voltage (SELV) standard. And source with 12 VDC or 24 VAC (depending on models) according to the IEC60950-1 and Limited Power Source standard.
- To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- Please make sure that the ceiling can support more than 50(N) Newton gravities if the camera is fixed to the ceiling.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)



• Make sure the power supply voltage is correct before using the camera.

- Do not drop the camera or subject it to physical shock.
- Do not touch sensor modules with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensor from dirt.
- Do not aim the camera lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the camera.
- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.
- Do not place the camera in extremely hot, cold temperatures (the operating temperature should be between -30°C to +60°C, or -40°C to +60°C if the camera model has an "H" in its suffix), dusty or damp environment, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, ensure there is good ventilation to the device.
- Keep the camera away from water and any liquids.
- While shipping, pack the camera in its original, or equivalent, packing materials. Or packing the same texture.
- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

Notes:

For the camera supports IR, you are required to pay attention to the following precautions to prevent IR reflection:

- Dust or grease on the dome cover will cause IR reflection. Please do not remove the dome cover film until the installation is finished. If there is dust or grease on the dome cover, clean the dome cover with clean soft cloth and isopropyl alcohol.
- Make certain the installation location does not have reflective surfaces of objects too close to the camera. The IR light from the camera may reflect back into the lens causing reflection.

The foam ring around the lens must be seated flush against the inner surface of the bubble to isolate the lens from the IR LEDS. Fasten the dome cover to camera body so that the foam ring and the dome cover are attached seamlessly.

Chapter3. Web Access

3.1. Network Connection

First to make sure the proper connection of the camera. Meanwhile, please check the PC's local network state. If the state shows "?", the network connection is error. The initial default IP address of the Camera is 192.168.1.88, please set IP address, Subnet mask and gateway for your computer.

Please make sure the proper setting of IP address. You can check network connection by tool "Ping" attached with the system after the setting.

3.2. Quick Access

The proper network connection can support multiple browsers, e.g. Internet Explorer, Firefox, Chrome etc.. To preview the camera by IE Browser, please see the operating steps as follows:

Open your Internet Explorer and choose Tools/ Internet Options/ Security /Custom Level, then check "Enabled" or "Pop Up" under "ActiveX Control and Plug -in" and set the security level lower.

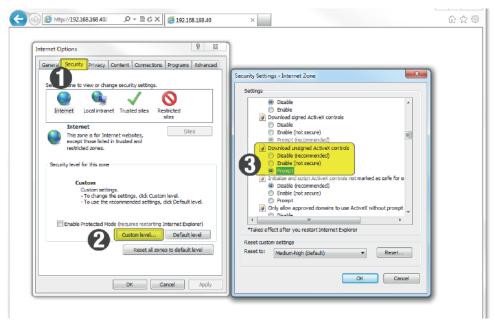


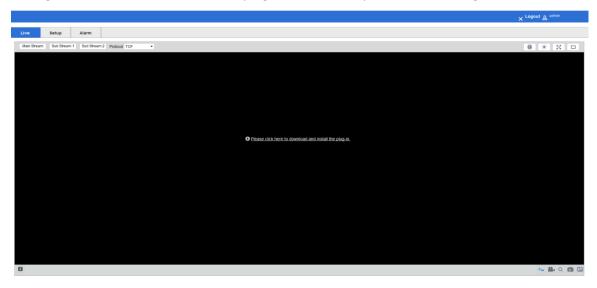
Figure 3-1 Set ActiveX Control and Plug-in

Please enter the camera's IP address in the address bar and click "Enter", the log-in interface will be shown up. Then input your camera's "User Name" (Default: admin), "Password" (Default: 123456) and click "Log in".



Figure 3-2 Log in

following interface will pop up a link "Please download the plug-in by clicking here" when you



log in. Please click it and install the plug-in then restart your browser to log in

Figure 3-3 Download Plug -in

After installing the plug-in, please reopen the web browser and log in again:

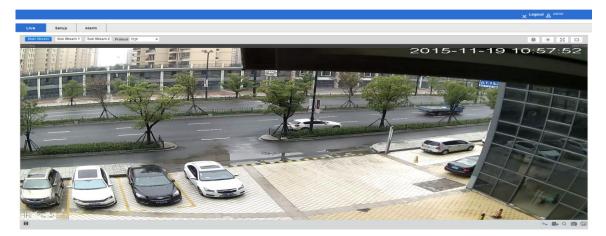


Figure 3-4 Browser interface

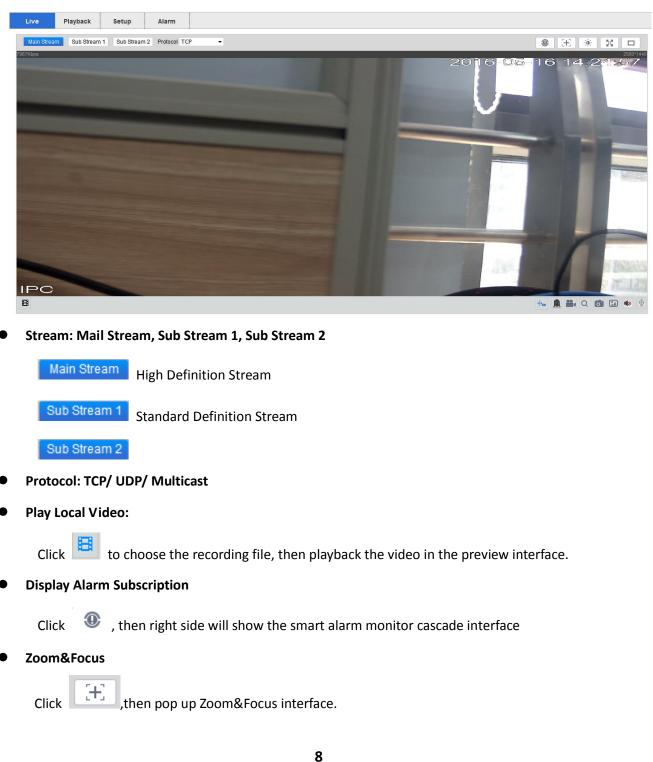
Live: to preview.

Setup: to set the parameters and functions.

Alarm: to check the alarm log.

Chapter4. Basic function operation

Preview interface information: 4.1.

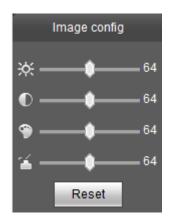


Click "Live" go to preview interface:



Image Config

Click 🌞 , then pop up image configuration interface.



Full Screen

Click $^{\fbox}$, the image is displayed in full screen.

• Original/ Adaptive

Click \square , switching the screen aspect ratio

• Display Rules

Click the rules

Relay-out

off, the button will change to

Record

Click to record files at this computer. The button will change to after record is enabled. Click this button, then will stop recording.

Digital Zoom

Click 🔍, enable the digital zoom function, the icon changed to 🔍. Drag the mouse from the

upper left to the lower right corner, you can enlarge the preview image in the region. Click to recovery preview image.

• Snapshot

Click

to snapshot one picture.

• Triple Snapshot

Click to snapshot three pictures.

Audio

Click 🤷, ON/OFF audio. When the audio is opened, the button will change to 📧, after the audio

off, the button will change to

Talk

Click , ON/OFF Talk. When the talk is off, the button will be turn on, or it will always be dark. Note:Talk and Audio can't at the same time open.

4.2. Setup

Click [Setup], enter the parameter configuration interface.

4.2.1. Camera

4.2.1.1. Video Configuration

Video configuration shown in Figure 4-1:

Camera	Video	Snapshot	Overlay	Interest Are		
			,		,a	
 video config 	Main Stream			Sub Stream		
Image config	mun Stream					
Audio config				Enable	Sub Stream 1	•
Perimeter set	Code-StreamType	General	-	Code-StreamType	General	•
Face Capture	Encode Mode	H.264H	•	Encode Mode	H.264H	-
Network Resolution		2560x1440 (4M)	•	Resolution	D1 (704*480)	-
Event	Frame rate(FPS)	20	•	Frame rate(FPS)	20	•
Storage	Bit Rate Type	CBR	•	Bit Rate Type	CBR	-
System	Reference Bit Rate	1536-8192Kb/S		Reference Bit Rate	128-2560Kb/S	
	Bit Rate	8192	•	Bit Rate	2048	-
	I Frame Interval	40	(20~150)	I Frame Interval	40	(20~150)
	Watermark Settings					
		DigitalCCTV				

Figure 4-1 Video Parameters

Video configuration \rightarrow Main Stream

Video stream configuration parameters are described below:

Parameters	Description			
Code-Stream	Choice of general code, motion detection code or alarm			
Туре	code			
Encode Mode	Set video encoding mode according to the actual			
Elicode Mode	demand			
	Different types of camera supports multiple resolutions,			
Resolution	according to the actual demand selecting the appropriate			
	resolution			
FPS	According to the actual demand selecting the FPS			
Bit Rate Type	Choice of CBR or VBR			
Bit Rate	Set the appropriate rate according to the resolution			
I Frame Interval	Not recommended modification			
Watermark	Watermark Settings			

After modifying parameters, please click [Save] to save the settings.

Snapshot shown in Figure 4-2

Camera	Video	Snapshot	Overlay	Interest Area
Gamera				
 video config 	Snapshot Type	General	~	
Image config	Image Size	2560x1440 (4M)		
Smart settings	Quality	5	•	
Network	Snapshot Stream	🖲 Main Stream 🔍 Sub	Stream	
Event	Interval	1 S	•	
Storage	Default	Defeat		
System	Default	Refresh Sa	ave	

Figure 4-2 Snapshot

Video configuration → Snapshot

By configuring the capture parameters, the device can automatically capture.

Snapshot Type: can choice General or Event.

Image Size: the image size is based on the snapshot stream. Using the same resolution with

snapshot stream's

Snapshot Stream: can choice "Main Stream" or "Sub Stream".

Picture Quality: can choice from 1-6 (best).

Interval: can choice according to the needing.

After modifying parameters, please click [Save] to save the settings.

Video configuration → Overlay

Channel Title / Time Title

Channel title can be set according to user needs. The display name, display date and display week can be chosen whether to enable according to the actual demand. User can drag the yellow box to change

the time, date and the place of video channel names, and then click the save button

Video overlay shown in Figure 4-3:

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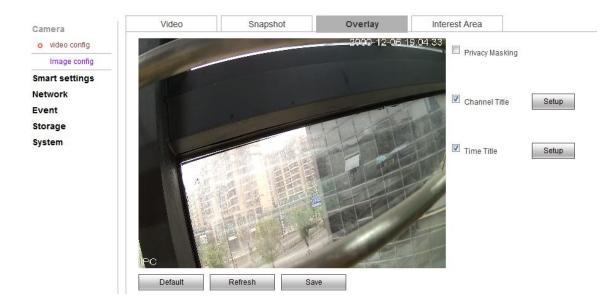


Figure 4-3 Overlay

Privacy Masking

Checking the "overlay" means opening the video overlay function of IP Camera.

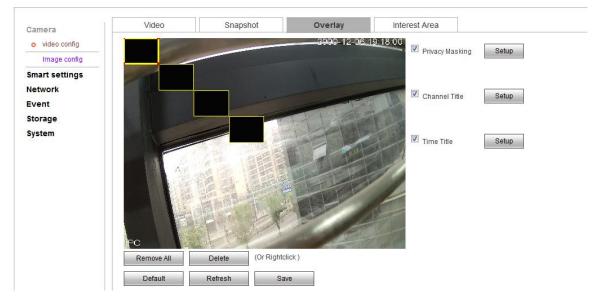


Figure 4-4 Overlay

Zone setting:

Click the left mouse button and drag in the picture, and then release. A regional map is finished. Support up to 4 zones. When regional map is finished, click ok, end the regional map Select draw area and click delete or click the right mouse button to clear the draw area. After modifying related parameters, click ok button to save the Settings

Interest Area:

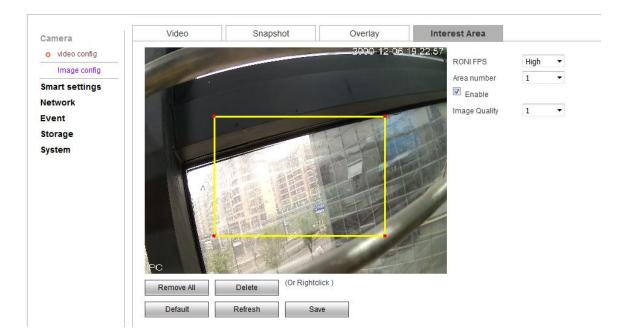


Figure 4-5 Interest area

Drag the mouse from the upper left to the lower right corner, you can draw an interest region in the image. The image will much more clearly in this interest region.

If want more regions, can draw more, but up to 4.

The RONI FPS (the uninteresting areas): the FPS is lower, the interest area image is much

clearer.Image Configuration

Image configuration as show in figure 4-6:

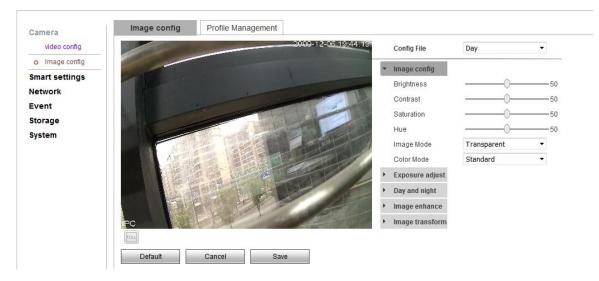


Figure 4-6 Image Configuration

Image configuration \rightarrow Image configuration

Camera image configuration file is convenient for customer to quickly adjust, choose "day", "night"

and "general" configuration according to actual situation.

Image Config

User can adjust the image parameters of the camera, like "Brightness", "Contrast", "Saturation", "Hue", "Image Mode", "Color Mode", according to picture effect.

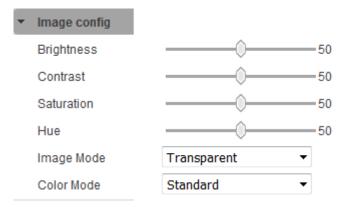


Figure 4-7 Image Config

Image Mode:

Transparent: Enhanced sharpness. The dark in the image will darker, the bright in the image will brighter

Real: Reduce sharpness. The image colors more realistic colors

Exposure Adjust:

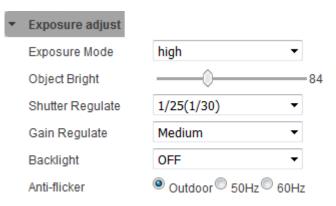


Figure 4-8 Exposure Adjust

Exposure Mode: The camera electronic shutter model can set different shutter speed according to the different camera scenes, or choose the automatic mode that camera can adjust the shutter speed automatically according to the scene brightness.

Gain Regulate: Used to adjust the gain upper limit, the user can choose different gain level in view of the actual situation.

Day and Night:

 Day and night 	
Day & Night	Auto 👻
BufferTimes	6 (0~60)Second

Figure 4-9 Day and Night

Day & Night: There are three choices: "Auto", "Color", "Black & White".

"Color" mode stays color images.

"Black & White" mode stays black and white image.

"Auto" mode: equipment choose "day/night mode automatically" according to the external environment brightness.

Buffer Times: The image will change the day/night mode after the buffer time.

Image Enhance:

r Image enhance	
Sharpness	Auto 👻
2Ddenoise	🔍 Manual 🖲 Auto
3Ddenoise	🔍 Manual 🍭 Auto
WDR	© Enable 🖲 Disable
Through the fog	Disable 🔻

Figure 4-10 Image Enhance

WDR: It is suitable for the models with wide dynamic function, some models support wide dynamic level adjustment, user can adjust the dynamic value to change the strengthness of WDR according to the actual need.

3Ddenoise: It is used to reduce the image noise, user can choose to enable or not according to the situation.

Through the Fog: Users can choose "disable", "weak", "Medium", "Strong". It can improve the

object recognizable degree in the mist weather.

Image Transform:

 Image transform 	
Mirror	© ON [®] OFF
Flip	No Flip 👻

Figure 4-11 Image Transform

Mirror: It's Convenient for the customer to change the orientation of the picture at any time. Notice:

The front-end parameters configuration options in the display setting include the possible options for all product models in the document. The actual models only have a part of options. Please refer to our specific equipment types. Part of parameters change need to restart the camera. Some options cannot be used at the same time.

4.2.1.3. Audio Configuration

Audio configuration shown in Figure 4-12:

Camera	Audio config				
video config	Noise reduction	ONO OFF	Audio output –	50	
Image config	Auto Gain	ONO OFF			
• Audio config			Audio input –	50	
Perimeter set					
Face Capture	Main Stream			Sub Stream	
Network	Enable Audio			Enable Audio	Sub Stream 1
Event	Encode Mode	G.711A	-	Encode Mode	G.711A
Storage	Encode Mode	G.711A	•	Encode Mode	G./IIA
System	Default	Refresh	Save		

Figure 4-12 Audio Configuration

4.2.2. Perimeter set

This is for perimeter function.

4.2.2.1. Global Config



Figure 4-13 Global Configuration

Yellow Box is Target Filter; Green Box is Vehicle Area; Blue Box is Person Area.

Advance: can design parameter, example BKThrd, Var Thrd, Initial Var, Learning Rate, Pix Thrd, Area Thrd,

Waiting Thrd, Distance Thrd.

Tip: Vehicle area can not be less than 2.2 times the area of people.

If the Object is small than the filter, then won't trigger when the object across the rule. In the vehicle area

and person area, if the object is big than the filter , than won't trigger when the object across the rule.

4.2.2.2. Tripwire

ive Playback	Setup	Alarm					
amera	Tripwire						
Perimeter set		the second s	3018-05-18	13113:12			
Global Config					Serialnumber	1	-
o Tripwire	Tripw				1		
Regional invasion	and the second second				otart mpm		
Items stolen					DetectionTarge	et 🔲 Human 📄 Vehic	le 🔽 Other
Items move		ALC: NO. OF THE OWNER			Time setting	Setting	
					Rule name	Tripwire1	
DensityDetection	Station of the local division of the local d			* 8	Direction	A<>B	-
NumberStat					Reportinterval	1	Second(1-200)
Through fence					Recording		
Loitering Detection				1			
Retrograde					Record delay		
ace Capture				1		Second(10-300)
letwork	IPC		000		Alarm output		
vent	Draw Rule Line	Clear Rule Line			Alarm delay		
torage	Diaw Rule Line	Clear Rule Line		10	D	Second(10-300)
ystem	Default	Refresh	Save	E.			
				1	Snapshot		

Figure 4-14 Tripwire

This is tripwire function. You should enable and set rules first.

1) Enable the tripwire(if can't enable, please check whether you enable the motion detection,

disable it, then enable the perimeter).

- 2) Then draw rules. You draw 4 rules.
- 3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and

tick the tripwire, If event occurs, you will see the snapshots in the "Display alarm subscription"

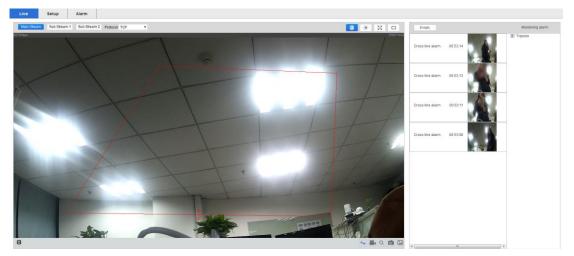


Figure 4-15 Display alarm subscription

4.2.2.3. Regional invasion

Live	Playback	Setup	Alarm				
Camera Perimete Globa	er set al Config	Regional invas	sion	2018-05-16 1922/859	Serialnumber	1	
Tripwi	ire	C	ross Warning Zone		Start Regional i		
o Regio	onal invasion				otarritegionari		
Items	stolen					t 🗹 Human 📝 Vehicle	Uther
Items	move		State of the second second		Time setting	Setting	-17
Densi	ityDetection				Rule name	Cross Warning Zone1	0
Numb	perStat				Reportinterval	1	Second(1-200
Throu	igh fence				Recording		
Loiter	ing Detection				Record delay		
Retro	grade				10	Second(10-300)	
ace Cap	oture				Alarm output		
Network		IPC			Alarm delay		
Event		Draw Rule Lin	e Clear Rule Line		10	Second(10-300)	
Storage		Draw Rule Lin	Clear Rule Line		Sendmail		
System		Default	Refresh	Save	Snapshot		

Figure 4-16 regional invasion

This is regional invasion function. You should enable and set rules first.

1) Enable the regional invasion(if can't enable, please check whether you enable the motion detection, disable it, then enable the regional invasion).

2) Then draw rules. You will draw region.

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the regional invasion, If event occurs, you will see the snapshots in the "Display alarm subscription".

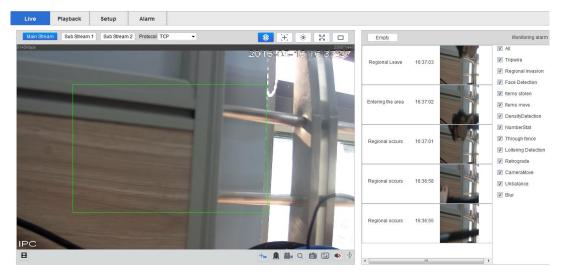


Figure 4-17 Display alarm subscription



Live Playback	Setup	Alarm				
Camera Perimeter set	Items stolen		2016-02-16	16:4 30.1		
Global Config				Serialnumbe	er 1	•
Tripwire	Items stole			Start LeftDet	ection	
Regional invasion		No. of Concession, name			get 📝 Human 📝 Vehicl	le 🔽 Other
o Items stolen				Time setting		
Items move				Rule name	Items stolen1	
DensityDetection				Min Last Tim		4~300Secon
NumberStat						
Through fence				Reportinterv	31 1	Second(1-200
Loitering Detection			Statement of the local division of the local	Recording		
Retrograde				Record dela	4	
ace Capture				10	Second(10-300))
Network	IPC		100	Alarm output		
Event				Alarm delay		
Storage	Draw Rule Line	Clear Rule Line		10	Second(10-300))
System				Sendmail		
ojotem	Default	Refresh	Save	Snapshot		

Figure 4-18 Items stolen

This is regional items stolen function. You should enable and set rules first.

1) Enable the items stolen(if can't enable, please check whether you enable the motion detection, disable it, then enable the items stolen).

2) Then draw rules. You will draw region.

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the items stolen, If event occurs, you will see the snapshots in the "Display alarm subscription".

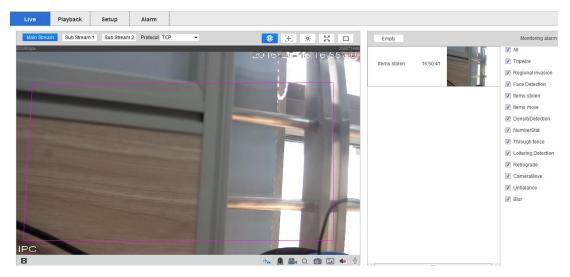


Figure 4-19 Display alarm subscription



ive	Playback	Setup	Alarm				
Camera		Items move		2018-06-1818-	and the		
Perimete		(Distance)		2010-05-010			-
2.040	al Config	in the second se			Serialnumber	1 .	·
Tripw	ire				Start TakenAw	ayDetection	
Regio	onal invasion				DetectionTarg	et 🔽 Human 🔽 Vehicle	V Other
Items	stolen				Time setting	Setting	
o Items	move				Rule name	Items move1	1
Dens	ityDetection				Min Last Time	10	0~10Second
Num	berStat				ReportInterval		Second(1-200
Throu	igh fence			and increased in the		4	
Loiter	ing Detection				Recording		
Retro	grade				Record delay		
ace Ca	oture				10	Second(10-300)	
Vetwork		IPC	Contraction of the second		🖉 Alarm output		
Event					Alarm delay		
Storage		Draw Rule Lin	e Clear Rule Line		10	Second(10-300)	
System		Default	Defeat	0	Sendmail		
		Default	Refresh	Save	Snapshot		

Figure 4-20 Items move

This is regional items move function. You should enable and set rules first.

1) Enable the items move(if can't enable, please check whether you enable the motion detection, disable it, then enable the items move).

2) Then draw rules. You will draw region.

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the items move, If event occurs, you will see the snapshots in the "Display alarm subscription".



Figure 4-21 Display alarm subscription

4.2.2.6. Density Detection

Live	Playback	Setup	Alarm				
Camera		DensityDetection	n				
Perimete	r set			2018-03-18 17-08-59			
Globa	I Config			and the second second	Start DensityDe	etection	
Tripwi	re				DetectionTarge	t 🗹 Human 🔽 Vehicle	V Other
Regio	nal invasion	Density	Detection		Time setting	Setting	
Items	stolen				Rule name	DensityDetection1	
Items	move	and the second division of the	and the second design of the		ReportInterval	1	Second(1-20
o Densi	tyDetection	4			Recording		
Numb	erStat				Record delay		
Throu	gh fence				10	Second(10-300)	
Loiter	ng Detection	11/1			Alarm output	360010(10-300)	
Retro	grade				Alarm delay		
Face Cap	oture				10	Second(10-300)	
Network		IPC			Sendmail	360010(10-300)	
Event		Draw Rule Line	Clear Rule Line		Snapshot		
Storage		Drait Hale Line	Siddi Hait Line		- onapsilot		
System		Default	Refresh	Save			

Figure 4-22 Density Detection

This is regional density detection function. You should enable and set rules first.

1) Enable the density detection(if can't enable, please check whether you enable the motion detection, disable it, then enable the density detection).

2) Then draw rules. You will draw region.

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the density detection, If event occurs, you will see the snapshots in the "Display alarm subscription".

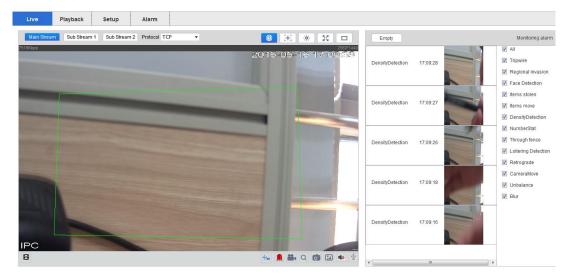


Figure 4-23 Display alarm subscription

4.2.2.7. Number Stat

Live	Playback	Setup	Alarm			
Camera		NumberStat		and to the star start we.		
Perimete				2018-06-18 17:17(C)	Start NumberStat	
	al Config				otali Humberota	
Tripw		No. of Concession, name			DetectionTarget	Vehicle Vehicle Vehicle
Regi	onal invasion	Kitteritte	(Annual States)		Time setting	Setting
Items	stolen	Contraction of the local division of the loc			Rule name	NumberStat1
Items	s move	the state of the s			Direction	A->B ▼
Dens	ityDetection			A >B	Recording	
o Num	berStat				Record delay	
Throu	ugh fence				10	Second(10-300)
Loite	ring Detection				Alarm output	
Retro	grade				Alarm delay	
Face Ca	pture				10	Second(10-300)
Network		IPC				Second(10-300)
Event					ochannan	
Storage	6	Draw Rule Line	Clear Rule Line		Snapshot	
System		Default	Refresh	Save		

Figure 4-24 Number Stat

This is number stat function. You should enable and set rules first.

1) Enable the number stat(if can't enable, please check whether you enable the motion detection, disable it, then enable the number stat).

2) Then draw rules. You draw 4 rules.

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the number stat, If event occurs, you will see the snapshots in the "Display alarm subscription"

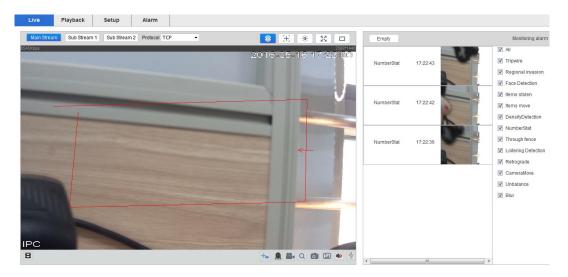


Figure 4-25 Display alarm subscription



Live	Playback	Setup	Alarm					
Camera		Through fend	e		The field we not			
Perimete	erset			2018-06-16 17:2	200			
Globa	al Config	States of the local division of the local di			Seria	alnumber	1 -	
Tripw	ire	No. of Concession, name			Start	CrossFen	ceDetection	
Regio	onal invasion		rugh fence1Up Stairs	Line			W Human Vehicle	Other
Items	stolen					setting	Setting	Under 1
Items	move				and the second s	name	Through fence1	i i
Dens	ityDetection	A STATE OF THE OWNER				ortinterval	_	Second(1-20
Numi	perStat						1	3econd(1-20
o Throu	igh fence	TTO DO			Reco	ording		
Loiter	ing Detection	1111			Reco	ord delay		
Retro	grade	Throw	ih Ferne (Down Stain	Line	10		Second(10-300)	
Face Ca	oture				Alarn	n output		
Network		IPC			Alarn	n delay		
Event		Draw Rule Lin	e Clear Rule Line		10		Second(10-300)	
Storage		Draw Rule Lin	Clear Rule Line		Send			
System		Default	Refresh	Save	🗹 Snap	shot		

Figure 4-26 Through fence

This is number through fence function. You should enable and set rules first.

1) Enable the through fence(if can't enable, please check whether you enable the motion detection, disable it, then enable the through fence).

2) Then draw rules. You draw2 rules.

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the through fence, If event occurs, you will see the snapshots in the "Display alarm subscription"

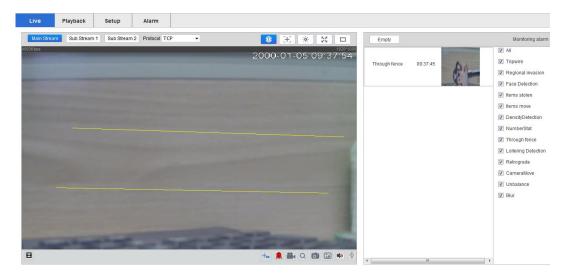


Figure 4-27 Display alarm subscription

4.2.2.9. Loitering Detection

Live	Playback	Setup	Alarm			
Camera		Loitering Detection	วท			
Perimete	erset			Ť		
Globa	al Config			Serialnumber	1	•
Tripw	rire	No. of Concession, name	Loitering Detection	Start WanderD	Detection	
Regio	onal invasion		And in case of the local division of the loc		et 🔽 Human 👿 Vehicle	Other
Items	stolen			Time setting	Setting	E outor
Items	move		and the second division of the second divisio	Rule name	Loitering Detection1	-
Dens	ityDetection	-		Min Last Time		5~60Secon
Num	berStat			ReportInterval		Second(1-20
Throu	ugh fence	TIME			,L	Second 1-20
o Loiter	ring Detection	11111		Recording		
Retro	grade			Record delay		
Face Ca	pture			10	Second(10-300)	
Network		IPC		📕 🔍 Alarm output		
Event				Alarm delay		
Storage		Draw Rule Line	Clear Rule Line	10	Second(10-300)	
System		Default	Refresh	Sendmail		
North State State State State				Snapshot		

Figure 4-28 Loitering Detection

This is loitering detection function. You should enable and set rules first.

1) Enable the loitering detection(if can't enable, please check whether you enable the motion detection, disable it, then enable the loitering detection).

2) Then draw rules. You will draw region.

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and

tick the loitering detection, If event occurs, you will see the snapshots in the "Display alarm subscription".

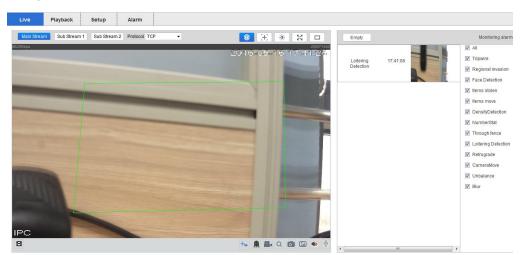


Figure 4-29 Display alarm subscription

4.2.2.10. Retrograde

Live	Playback	Setup	Alarm				
Camera		Retrograde					
Perimet	erset		20	8-0)a-18 17 48:441			
Glob	al Config			and the second s	Serialnumber	1	
Tripw	rire		and the second second second		Start Retrograd	ler	
Regi	onal invasion		etrogradet		DetectionTarge	t 🗹 Human 👿 Vehicle	Other
Items	stolen			and the second division of the second divisio	Time setting	Setting	and and
Items	move	Sec. 1	Contraction of the local division of the loc		Rule name	Retrograde1	-
Dens	ityDetection	1			100000000000000000000000000000000000000		0
Num	berStat				ReportInterval	1	Second(1-2
Thro	ugh fence	CONTRACTOR IN CONTRACTOR			Recording		
Loite	ring Detection	1111		Contraction of the local division of the loc	Record delay		
o Retro				1	0	Second(10-300)	
Face Ca	-				Alarm output		
Network	- DOCUTERIA	IPC			Alarm delay		
Event				1	0	Second(10-300)	
Storage		Draw Rule Line	Clear Rule Line	E	Sendmail		
System		Default	Refresh Save		Snapshot		

Figure 4-30 Retrograde

This is retrograde function. You should enable and set rules first.

1) Enable the retrograde(if can't enable, please check whether you enable the motion detection, disable it, then enable the retrograde).

2) Then draw rules. You will draw region and line.

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the retrograde, If event occurs, you will see the snapshots in the "Display alarm subscription".

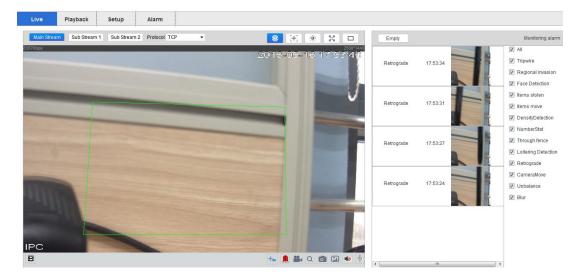


Figure 4-31 Display alarm subscription

Tip:the setting button is time setting, click setting button , will see the photo, you can in there setting time.

0	2	4	6	8	10	12	14	16	18	20	22	24	
	2	4	0	0	10	12	14	10	10	20	22	24	0.11
Sunday													Setting
Monday													Setting
Tuesday												_	Setting
/ednesday													Setting
Thursday													Setting
Friday													Setting
Saturday													Setting
Whole wee	ge1 00 ge2 00 ge3 00 ge4 00	unday	00 00 00 00	23 : 23 : 23 : 23 :	Tuesday 59 : 59 59 : 59 59 : 59 59 : 59 59 : 59	w	ednesd	lay 🗖	Thursda	ay 🗖 j	星期五	Satu	rday
 Time Range Time Range Time Range Time Range Time Range 	ge1 00 ge2 00 ge3 00 ge4 00 ge5 00) : 00 :) : 00 :) : 00 :) : 00 :	00	23 : 23 : 23 : 23 : 23 : 23 :	59 : 59 59 : 59 59 : 59 59 : 59 59 : 59	w	ednesd	lay 🗖	Thursda	ay 🔲 j	星期五	Satu	rday

Figure 4-32 time setting

If the Motion Detection function is enabled, this perimeter function won't be enable. A second election: Smart function or Motion Detection function.

4.2.3. Face Capture

amera	Face Capture	9		23	
erimeter set			2016-05-17 11:56:3		
ace Capture				Open face cap	ture
 Face Capture 				Time setting	Setting
letwork				Recording	
vent	The second s			Record delay	
torage	and the second se			10	Second(10-300)
system	and the second se			Relay-out	Second(10-500)
	Contraction of Contraction			Alarm delay	
	and the second second			10	Second(10-300)
				🔲 Sendmail	
	of the second second second			Snapshot	

Figure 4-33 Face Capture

Blue Box is Minimum face; Green Box is Maximum face; Red Box is Face Detect Zone.

This is retrograde function. You should enable and set rules first.

1) Enable the face capture(if can't enable, please check whether you enable the motion detection, disable it, then enable the face capture).

2) Then adjust the size of the frame according to the rules

3) Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and

tick the face capture, If event occurs, you will see the snapshots in the "Display alarm subscription".

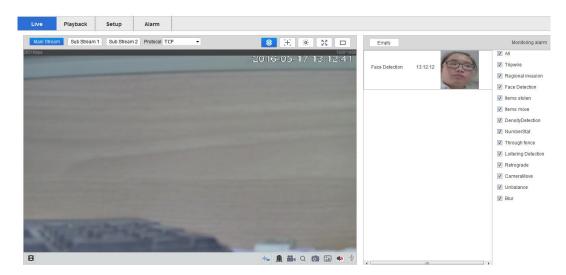


Figure 4-34 Display alarm subscription

The setting button is set time, and the Advanced button, is set parameters.

Advanced	
EnTracker Num	3
DetFrame Rate	3
Lost time	30
sensitivity	100
Enable Enhance	

Figure 4-35 advanced parameters

4.2.4. Network

4.2.4.1. TCP/IP

In the TCP / IP configuration interface, tick the "DHCP", the IP camera can automatically obtain IP address. You also can manually modify the network parameters by ticking Static.

IP Version: Parts of IP cameras support IP v6 mode.

Camera	TCP/IP				
Smart settings	Host Name	IPC			
Network	Ethernet Card	Wire(DEFAULT)			_
o TCP/IP					
Port		Static DHCP			
PPPoE	MAC Address	e0 · 61 · b2 · 28	89 · 4b		
DDNS	IP Version	IPv4 🔻			
IP Filter	IP Address	10 · 12 · 4 · 154			
SMTP(Email)	Subnet mask	255 · 255 · 255 · 0			
UPnP	Default Gateway	10 - 12 - 4 - 1			
Multicast	Preferred DNS Server	8 . 8 . 8 . 8			
	Alternate DNS Server	8 . 8 . 8 . 8			
P2P	Enable ARP/Ping to set	IP address service			
BullCloud					
Phone push	Default	Refresh Save			
Event					
Storage					
System					
		Figur	e 4-36 TCP/	'IP	

4.2.4.2. PPPOE

PPPOE Settings as shown in figure 4-16 :

	PPPoE		
Camera			
Smart settings	Enable		
Network	Username	none	
TCP/IP	Password		
Port			
o PPPoE	Default	Refresh	Save
DDNS			
IP Filter			
SMTP(Email)			
UPnP			
Multicast			
P2P			
BullCloud			
Phone push			
Event			
Storage			
System			

Figure 4-37 PPPOE

Check "enable dial", enable PPPOE function.

Input PPPOE username and password, click ok. If dial successfully, camera will get a public IP address After modifying related parameters, it needs to click ok button to save the associated settings

Default gate way fail after PPPOE configuration open; after modifying the parameters of

Network Settings, it needs to restart the IP camera.

4.2.4.3. DDNS

DDNS Settings as shown	in figure 4-17:
------------------------	-----------------

Camera	DDNS		
Smart settings	Server Type	NO-IP DDNS]
Network	Server Address	dynupdate.no-ip.com	
TCP/IP	Domain Name	none	
Port	Username	none	
PPPoE	Password	••••	
o DDNS	Update Period	10	Minute(1~500)
IP Filter	Default	Defeat Oren	
SMTP(Email)	Default	Refresh Save	
UPnP			
Multicast			
P2P			
BullCloud			
Phone push			
Event			
Storage			
System			

Figure 4-38 DDNS Setting

In public network environment, the majority of users use dynamic IP address by adopting DDNS (dynamic DNS) to access the network camera through the domain name, which can effectively solve the problem that it is unable to get the current dynamic IP to access the camera.

Check "enable DDNS" default that open DDNS function default.

"DDNS type" includes "NO - IP", "DynDNS" and "FNT".

When using "DynDNS", "NO - IP" and "FNT", operators have the default server address, and don't need to fill port number and device domain that users apply in software operator website. The user name and password is the same as the one that user register account.

After modifying related parameters, it needs to click ok button to save the Settings.

After modifying the parameters of Network setting, it needs to restart the network camera. DDNS function must be set to the correct IP address, mask, gateway, and DNS server, and this configuration can access the Internet.

4.2.4.4. IP Filter

IP filter setting as shown in figure 4-18:

Camera	IP Filter			
Smart settings	Trusted Sites			
Network	Trusted Sites			
TCP/IP		IP address /MAC address	Modify	Delete
Port				
PPPoE				
DDNS				
o IP Filter				
SMTP(Email)				
UPnP				
Multicast				
P2P				
BullCloud	Add IP/MAC			Remove All
Phone push	Default	Defeat		
Event	Default	Refresh Save		
Storage				
System				

Figure 4-39 IP Filter Setting

Users can check the "white list" option to enable this feature.

"White List" means that the IP address added to the address pool will be allowed access to the camera. Users can click on [add IP / MAC] to add a new IP address to the address pool, click the IP address added, then can operate the IP address pool by clicking the [amended], [deleted] and [empty] button.

4.2.4.5. SMTP(Email)

SMTP (E-mail) setting as shown in figure 4-19:

Camera	SMTP(Email)	
Smart settings	SMTP Server	none
Network	Port	25
TCP/IP	Anonymity	
Port	Username	anonymity
PPPoE	Password	••••
DDNS	Sender	none
IP Filter		
o SMTP(Email)	Authentication	None
UPnP	Title	IPC Message IV Attachment
Multicast	Mail Receiver	+
P2P		
BullCloud		
Phone push	Interval	0 Second (0~3600)
Event	Health Mail	Update Period 60 Second(1~3600)
Storage	Email Test	
System	Email root	
,	Default	Refresh Save

Figure 4-40 SMTP Setting

When an alarm occurs, it can send a message to the specified mailbox by setting mail parameters .

Enter the address of the SMTP server, SMTP port number (default 25), user name, password, e-mail sender

and recipient's name, address, theme and other information, and then click OK.

Encryption can check the "SSL Encryption" or "TLS encryption" approach.

Check the "Support Annex", the mail will come with instant capture. User can set the capture interval.

After modifying the parameters, it needs to click OK button to save the settings.

Check "send health messages", the camera will send the device to run health messages by interval.

Mail contents include: the camera channel names, event type, event date/time, equipment type and accessories.

4.2.4.6. UPnP

UPNP Settings are described in figure 4-20:

Camera									
Smart settings	Enable	Status No Mappin]						
Network	Port Mappin	g List							
TCP/IP		Server Name	Protocol	Internal Port	External Port	Status	Modify	Delete	
Port		WebService	TCP	80	8080	Mapping Faild	2	•	
PPPoE		PrivService	TCP	8000	8000	Mapping Faild	2	•	
		PrivService	UDP	8001	8001	Mapping Faild	2	•	
DDNS	$\mathbf{\nabla}$	RTSPService	TCP	554	554	Mapping Faild	2	•	
IP Filter									
SMTP(Email)									
o UPnP									
Multicast									
P2P									
BullCloud	Add Mapping	Default	Refresh		Save				
Phone push									
vent									
Storage									

Figure 4-41 Upnp Settings

After the UPnP protocol enabled, this function makes the camera to be discovered automatically, it can

also realize the function of automatically port mapping of the router.

4.2.4.7. Multicast

Multcast settings are described in figure 4-21:

Camera	Multicast			
Smart settings	Main Stream			
Network	Enable			
TCP/IP	Multicast Address	239 255 42	42 (224.0.0.0~239.255.255.255)	
Port	Port	36666	(1025~65534)	
PPPoE				
DDNS	Sub Stream 1			
IP Filter	Enable			
SMTP(Email)	Multicast Address	239 · 255 · 42	43 (224.0.0.0~239.255.255.255)	
UPnP	Port	36667	(1025~65534)	
o Multicast	Sub Stream 2			
P2P	Enable			
	Multicast Address	239 · 255 · 42	44 (224.0.0.0~239.255.255.255)	
BullCloud	Port	36668	(1025~65534)	
Phone push				
Event	Default	Refresh	Save	
Storage				
System				

Feature 4-42 Multicast settings

When multicast is on, you can realize multicast by setting the address of multicast. In this way, you can not only improve the efficiency of data transmission, but also can reduce the possibility of congestion in main network.

4.2.4.8. P2P

P2P settings are described in figure 4-22:

Camera				
Smart settings	P2P	Enable	•	
Network TCP/IP	Transmission QOS	Disable	-	CASE AND ENVI
Port	Account multiplexing	\checkmark		
PPPoE	Device ID	0028894b		
DDNS	Control password	g4OTRi		
IP Filter	Local port	3000	(3000-65534)	in the second
SMTP(Email)	Connection status	Online		
UPnP				
Multicast				
• P2P	Default	Refresh	Save	
BullCloud				
Phone push				
Event				
Storage				
System				

Feature 4-43 P2P setting

When in network service is on, the connection status is online, users can visit IPC with its ID and password by log in www.vssweb.net.

4.2.4.9. Phone Push

Phone push is described in figure 4-23:

	Phone push
Camera	
Smart settings	Push enabled
Network	
TCP/IP	
Port	Time interval 60 Second(60~3600)
PPPoE	Event Tripwire Grade Important
DDNS	Default Refresh Save
IP Filter	
SMTP(Email)	
UPnP	
Multicast	
P2P	
BullCloud	
o Phone push	
Event	
Storage	
System	

Feature 4-44 Phone push setting

Event: Device Restart, Tripwire

Grade: Important, general, emergency. If the grade is emergency, the interval time will be invalid, the snapshot will be uploaded once triggered.

Add the P2P id into the P2P account, then access this account on our smart APPs, VSS Mobile, enable the push function. The app will get the alarm information or snapshots.

4.2.5. Event management

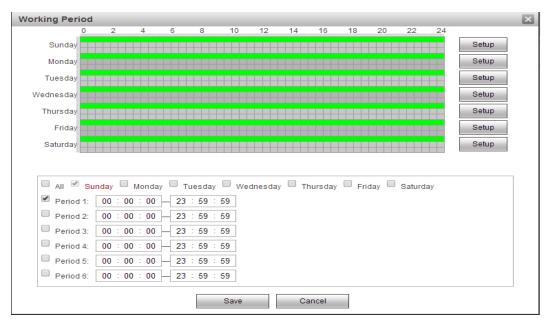
4.2.5.1. Video detection

ive Play	back	Setup	Alarm				
Camera	I	Motion Detect	Vide	o Masking	CameraMove	Unbalance	Blur
erimeter set		Enable					
ace Capture		Working Period	Setu	ID			
letwork Event		Anti-Dither	5	Second(0	~100)		
• Video Detect		Area	Setu	qu			
Alarm		Record					
Abnormality		Record Delay	10	Second(1	0~300)		
storage		Relay-out					
System		Alarm Delay	10	Second(1	0~300)		
		Send Email					
		Snapshot					
		Default	Refresh	Sa	ave		

Feature 4-45 Motion detection settings

Video detection \rightarrow Motion detection

Check "Enable" means the function of motion detection of the IPC is on.



Feature 4-46 Working-Disarming Period settings

Arming-Disarming Period:

The "Arming Period" can display arming period of current motion detection.

You can set arming period by clicking [settings], you also can set arming period of the whole

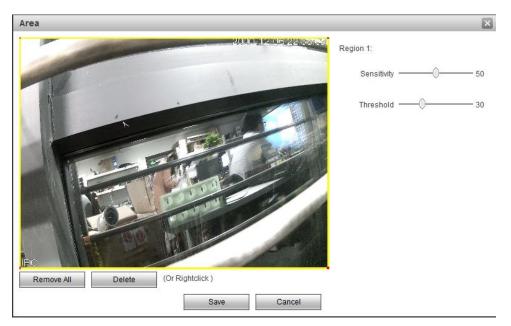
week or one day in a week.

You can set 6 periods of arming and disarming in detail.

You need to click [OK] to save the settings, after you set the parameters.

Tips:

You need to check [start motion detection] before you set arming period.



Feature 4-47 Motion detection area settings

Set area:

Enter [Area settings] by clicking set, click left key of mouse, drag it, then loose the left key, then the drawing of a motional detection area is finished.

You can at most draw 4 motion detection areas in a screen, click [OK], after you finish drawing all the areas.

You can clear the areas you drew by clicking [Clear] or right key of the mouse.

Sensitivity: Sensitivity coefficient in every area is 0-100, the function will not work when sensitivity coefficient is 0

Linkage pattern:

Linkage patterns are "Video link", send email and snap shot.

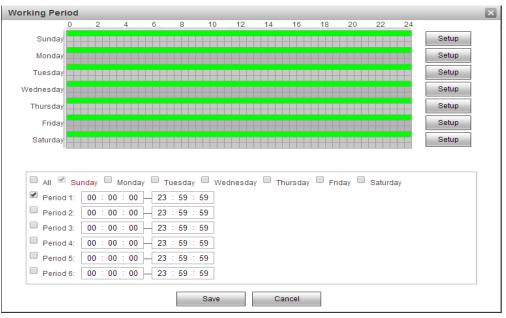
You need to click[OK] to save parameters.

Video detection \rightarrow Video Masking

Camera	Motion Detect Video Masking
Smart settings	C Enable
Network Event	Working Period Setup
o Video Detect	Record
Abnormality	Record Delay 10 Second(10~300)
Storage	Send Email
System	Snapshot
	Default Refresh Save

Feature 4-48 Video occlusion settings

Check "Default" means the function of abnormality of the IPC is on.



Feature 4-49 Working period settings

Working period settings:

Arming time of motion detection can be shown in the option of "Arming time".

You can edit arming time by clicking [Settings], you can set arming period of the whole week or

one day in the week.

You can set start and end time in 6 periods of the day in detail.

You can save the settings by clicking [OK] after you set the parameters.

Linkage model:

Linkage models are "video linkage", "send email", "snapshot".

You need to save settings by clicking [OK] after you change parameters.

Video detection → CameraMove

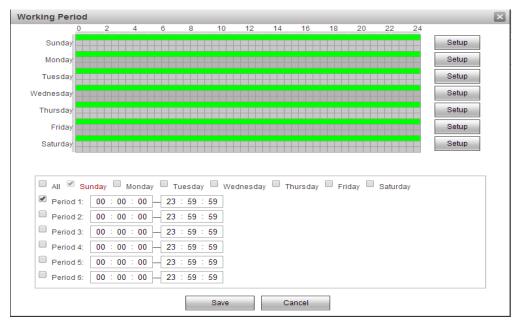
Live Playba	ick Setup	Alarm				
Camera Perimeter set Face Capture Network Event o Video Detect Alarm Abnormality Storage System	Motion Detect Motion Detect Enable Working Period Time interval Sensitivity Record Record Delay Relay-out Alarm Delay Send Email Snapshot Default		meraMove	Unbalance	Blur	

Feature 4-50 cameramove setting

Enable the camera move(if can't enable, please check whether you enable the motion detection,

disable it, then enable the camera move).

Check "Default" means the function of abnormality of the IPC is on.



Feature 4-51 Working period settings

Working period settings:

Arming time of motion detection can be shown in the option of "Arming time".

You can edit arming time by clicking [Settings], you can set arming period of the whole week or

one day in the week.

You can set start and end time in 6 periods of the day in detail.

You can save the settings by clicking [OK] after you set the parameters.

Linkage model:

Linkage models are "video linkage", "send email", "snapshot".

You need to save settings by clicking [OK] after you change parameters.

Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the camera move, If event occurs, you will see the snapshots in the "Display alarm subscription"

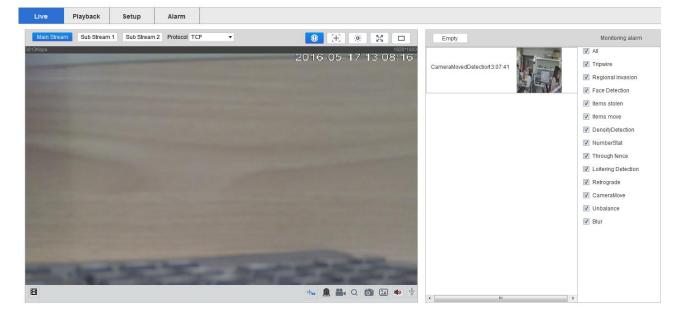


Figure 4-52 Display alarm subscription

Live	Playback	Setup	Alarm				
Live Camera Perimete Face Cap Network Event o Video Alarm Abnori Storage System	r set ture	Motion Detect Motion Detect Enable Working Period Time interval Sensitivity Record Record Delay Relay-out Alarm Delay	Vide	D Masking CameraMove P Second(0~3600) 5 Second(10~300) Second(10~300)	Unbalance	Blur	
-		Alarm Delay Alarm Delay Send Email Snapshot Default	10 Refresh				

Video detection \rightarrow Unbalance

Feature 4-53 Unbalance setting

Enable the unbalance(if can't enable, please check whether you enable the motion detection,

disable it, then enable the unbalance).

Check "Default" means the function of abnormality of the IPC is on.

orking Period														X
0	2	4	6	8	10	12	14	16	18	20	22	24		
Sunday													Setup	
Monday												_	Setup	
Tuesday													Setup	
Wednesday													Setup	
Thursday													Setup	
Friday													Setup	
Saturday													Setup	
All Su				esday 59 :		Vednesda	ay 🗆	Thursd	lay 🔲 I	Friday 🗌	Saturd	lay		
Period 1:	00 : 00			59 :										
Period 2:	00 : 00			59 :										
Period 4:	00 : 00			59 :										
Period 5:	00 : 00			59 :	_									
Period 6:	00 : 00			59 :										
					Save	•		Cancel						1

Feature 4-54 Working period settings

Working period settings:

Arming time of motion detection can be shown in the option of "Arming time".

You can edit arming time by clicking [Settings], you can set arming period of the whole week or

one day in the week.

You can set start and end time in 6 periods of the day in detail.

You can save the settings by clicking [OK] after you set the parameters.

Linkage model:

Linkage models are "video linkage", "send email", "snapshot".

You need to save settings by clicking [OK] after you change parameters.

Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the unbalance, If event occurs, you will see the snapshots in the "Display alarm subscription"

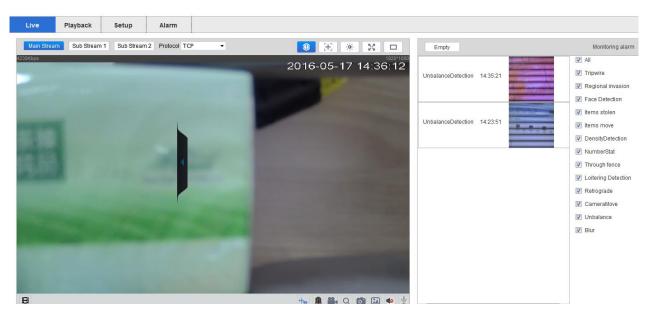


Figure 4-55 Display alarm subscription

Live	Playback	Setup	Alarm				
Camera		Motion Detect	Vide	eo Masking	CameraMove	Unbalance	Blur
Perimeter	set	Enable					
Face Capti	ure	Working Period	d Set	up			
Network		Time interval	10	Second	(0~3600)		
Event		Sensitivity		-0	5		
o Video D	etect			·			
Alarm		Record					
Abnorm	ality	Record Delay	10	Second(1	10~300)		
Storage System		 Relay-out Alarm Delay Send Email 	10	Second(1	10~300)		
		Snapshot	Refresi	1 S	ave		

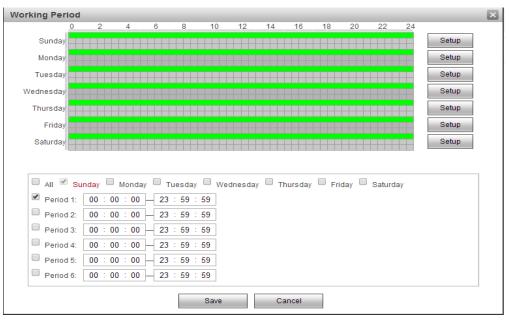
Video detection →Blur

Feature 4-56 Unbalance setting

Enable the unbalance(if can't enable, please check whether you enable the motion detection,

disable it, then enable the unbalance).

Check "Default" means the function of abnormality of the IPC is on.



Feature 4-57 Working period settings

Working period settings:

Arming time of motion detection can be shown in the option of "Arming time".

You can edit arming time by clicking [Settings], you can set arming period of the whole week or one day in the week.

You can set start and end time in 6 periods of the day in detail.

You can save the settings by clicking [OK] after you set the parameters.

Linkage model:

Linkage models are "video linkage", "send email", "snapshot".

You need to save settings by clicking [OK] after you change parameters.

Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the unbalance, If event occurs, you will see the snapshots in the "Display alarm subscription"

Live Playback Setup A	Alarm					
Main Stream Sub Stream 1 Sub Stream 2 P	Protocol TCP -	🕘 X 🔅 X 🗆	Empty			Monitoring alarm
220Kbp6		2016-05-17 14:50:55	BlurDetection	14:50:45		All Tripwire Regional invasion Face Detection
			BlurDetection	14:50:15		Items stolen Items move DensityDetection
			BlurDetection	14:49:45	I	NumberStat Through fence Loitering Detectior Retrograde
			BlurDetection	14:49:15	V V	CameraMove Unbalance Blur
			BlurDetection	14:48:45		
8		to 🔒 🖀 Q 🙆 💷 🔹 🖞	•		-	

Figure 4-58 Display alarm subscription

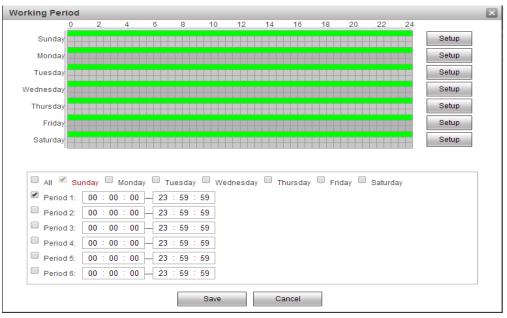
4.2.5.2. Alarm

Live Playba	ck Setup Alarm
Camera	Relay Activation
Perimeter set	Enable
Face Capture	Relay-in Alarm1 -
Network Event	Working Period Setup
Video Detect	Anti-Dither 0 Second(0~100) Sensor Type NO -
o Alarm	Record
Abnormality	Record Delay 10 Second(10~300)
Storage	Relay-out
System	Alarm Delay 10 Second(10~300) Send Email Snapshot
	Default Refresh Save

Figure 4-58 Relay Activation

Enable the relay activation.

Check "Default" means the function of abnormality of the IPC is on.



Feature 4-57 Working period settings

Working period settings:

Arming time of motion detection can be shown in the option of "Arming time".

You can edit arming time by clicking [Settings], you can set arming period of the whole week or

one day in the week.

You can set start and end time in 6 periods of the day in detail.

You can save the settings by clicking [OK] after you set the parameters.

Linkage model:

Linkage models are "video linkage", "send email", "snapshot".

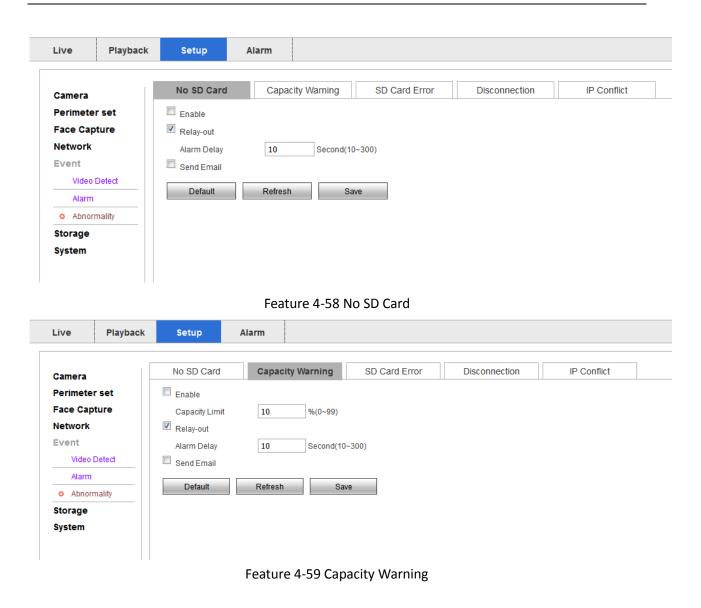
You need to save settings by clicking [OK] after you change parameters.

4.2.5.3. Abnormality

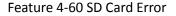
Abnormality can be divided into the following categories:

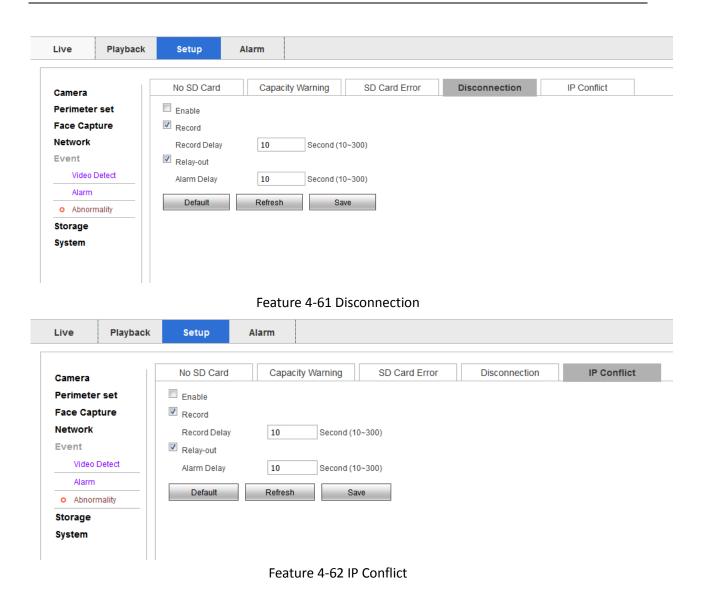
No SD Card, Capacity Warning, SD Card Error, Disconnection, IP Conflict.

The abnormality of each exception is shown below. When the interface is set to enable it ,will detected.



Live	Playback	Setup	Alarm
Camera		No SD Card	Capacity Warning SD Card Error Disconnection IP Conflict
Perimeter	set	Enable	
Face Capt	ure	Relay-out	
Network		Alarm Delay	10 Second (10~300)
Event		Send Email	
Video D	etect		
Alarm		Default	Refresh Save
o Abnorm	ality		
Storage			
System			





4.2.6. Storage

4.2.6.1. Schedule

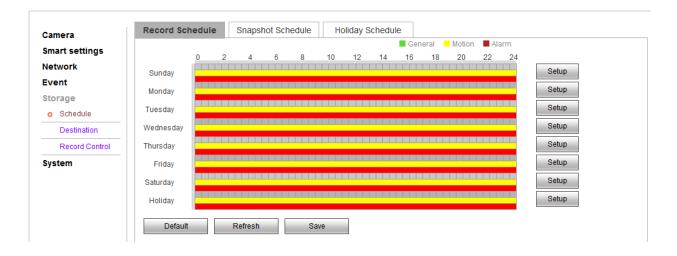


Figure 4-63 video management settings

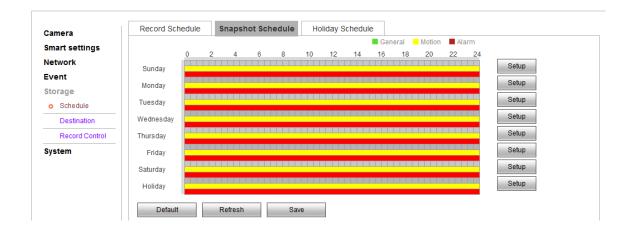
Record Schedule:

Click the "Setup" to manage the schedule time

ali 🗸	Sunday 🔲 Mond	lay 🔲 Tuesday	Wednesday Thursday Friday Saturday Holiday
Period 1:	00 : 00 : 00	23 : 59 : 59	General 🖉 Motion 🖉 Alarm
Period 2:	00 : 00 : 00	23 : 59 : 59	General Motion Alarm
Period 3:	00 : 00 : 00	23 : 59 : 59	General Motion Alarm
Period 4:	00 : 00 : 00	23 : 59 : 59	General Motion Alarm
Period 5:	00 : 00 : 00	23 : 59 : 59	General Motion Alarm
Period 6:	00 : 00 : 00	23 : 59 : 59	General Motion Alarm

Feature 4-64Arming period settings

Snapshot Schedule:





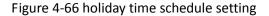
Click "setting" to configure picture capturing, select the capturing schedule and saving path.

There are two kinds of picture capturing: automatic image capture and manual image capture. For the automatic image capturing, refer to all-day time image capturing. For the manual image capturing, you can configure the recording schedule as much as 6 different image capturing time each day.

The image capturing type can be normal/motion detection.

Holiday Schedule:

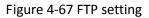
	Record Schedule Snapshot Schedule	Holiday Schedule
Camera	Shapshot Schedule	nonday schedule
Smart settings	Record Snapshot	
Network	Dec 🔻	
Event		
Storage	Sun Mon Tue Wed Thu Fri Sat	
o Schedule	1 2	
Destination	3 4 5 6 7 8 9	
Record Control	10 11 12 13 14 15 16	
System	17 18 19 20 21 22 23	
2	24 25 26 27 28 29 30	
	31	
	Refresh Save	



Select the holiday to configure the image recording and capturing mangement.

4.2.6.2. Destination

Live Playback	Setup	Alarm						
Camera	Path	F	TP	Local				
Perimeter set	Record				Snapshot			
Face Capture	Event Type	Scheduled	Motion Detect	Alarm	Event Type	Scheduled	Motion Detect	Alarm
Network	Local				Local			
Event	FTP				FTP			V
Storage								
Schedule	Default	Refresh	Save					
o Destination								
Record Control								
System								



Local:

Tick local, you can Store files and pictures locally.

FTP:

By configure the FTP parameter, you can control the two-way transmission of files on the internet to upload the images and files to the fixed FTP.

The IP address and port to the same as the subnet as that of the FTP. Sign the use name and password with upload permission in the FTP function.

Click the "OK" to save the configuration.

4.2.6.3. Record Control

.				
Camera	Record Control			
Smart settings	Pack Duration	8	Minute (1~120)	
Network	Pre-event Record	5	Second (0~5)	
Event	Disk Full	Overwrite -	-	
Storage	Record Mode	💿 Auto 🔍 Manual 🔍 Off		
Schedule	Record Stream	Main Stream 👻	-	
Destination			_	
o Record Control	Default	Refresh Save		
System				

Figure 4-68 Record control settings

Record Control:

[Pack Duration] to package according to the time you record a video

[Pre-recording] for time to pre-record the video before you start the record, 0-5s is optional.

【Disk Full】 Select "Cover" or "Stop" when the Hard disk is full,

[Record Mode] Select Automatic/Manual/off to chose the recording mode.

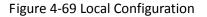
[Record Stream] Select Main Stream/Sub Stream 1/Sub Stream 2 to store the video.

4.2.7. System

Configuring system settings is mainly for the basic configuring of cameras, including "Local settings" "User Management" "Default Settings" "Automatic Maintenance" "System Log" "Version" and etc.

4.2.7.1. Local Settings

Car	mera	General	local config	Date&Time
Sm	art settings	Device Name	03115807_118180	
Net	twork	Language	English	•
Eve	ent	Video Standard	NTSC	•
Sto	orage	Default	Refresh	Save
Sys	stem	Delaut	Reliesh	Gave
0	General			
	Account			
	Default			
	Import/Export			
	Auto Maintain			
	Upgrade			
	Log			
	Version			
	Online User			



Local Config:

In the Local Configuration Interface, you can set the Device name of the IP camera, the Language and the video format .

Camera	General	local config	Date&Time]
Smart settings	Snapshot Path	D:\用户目录\我的文档	\IPC-Download	Browse
Network	Record Path	D:\用户目录\我的文档	\IPC-Download	Browse
Event				
Storage	Alarm capture path	D:\用户目录\我的文档	\IPC-Download	Browse
System	Default	Save		
o General	Deladik	Gave		
Account				
Default				
Import/Export				
Auto Maintain				
Upgrade				
Log				
Version				
Online User				

Figure 4-70 local config

Date & Time:

You can set the path of captured pictures and videos.

Camera	General	local config Date&Time
Smart settings	Date Format	Year-Month-Day 👻
Network	Time Format	24-Hour-based System 🔻
Event	Time Zone	GMT+08:00 -
Storage	Current Time	2000 - 12 - 06 23 : 20 : 25 Sync PC
System	DST Enable	
o General	DST Type	Date O Week
Account	Start Time	Jan 🔻 1 👻 00 : 00 : 00
Default	EndTime	Jan ▼ 2 ▼ 00 : 00 : 00
Import/Export	Synchronize with NTF	P
Auto Maintain	NTP Server	clock.isc.org
Upgrade	Port	123
Log	Update Period	10 Minute(0~30)
Version		
Online User	Default	Refresh Save

Figure 4-71 Time Settings

The Time Zone can be of your location or be set according to the actual situation.

In the Time Configuration Interface, you can configure the "NTP" settings to set NTP address, port number and time check interval, so as to check time at times according to the configuration; You can also click the **Sync with computer time** to synchronize the time of the camera with that of your computer. You can enable daylight saving time if it is needed. The daylight saving time configuration can set the starting and ending date, specific to the hours.

Click Save to save the modified parameters.

4.2.7.2. Account

mart settings	No.	User Name Group	o Name	Remark		Modify	Delete
letwork	1	admin ad	min	admin 's account	1	2	•
vent							
itorage							
system							
General							
o Account							
V Account							
Default							
	Authority List						
Default	Authority List	Record control	Account	Log Search	Clear Log	Upgrade	
Default Import/Export	Live Auto Maintain	General	Video/Audio	Schedule/Destination	-	Upgrade Abnormality	,
Default Import/Export Auto Maintain	Live		Video/Audio	-	-		,
Default Import/Export Auto Maintain Upgrade	Live Auto Maintain	General	Video/Audio	Schedule/Destination	-		,

Figure 4-72 User Settings

Account → User Name

When the current user is "admin" super user, you can create as much as 32 users.

Create Users: Click "Create users" to enter the user addition interface

Insert user name and password, and the user group can select "admin" or "other group". "User right" can set the basic permission and channel permission. Click "OK" to finish creating users.

Alter Users: Select the user to modify, click "Modify" to enter the user editing interface, you can alter the User name, password, users group and privileges.

Add or modify the user both can configure the basic right and channel right settings.

Delete Users: Select the user to delete, click delete to enter into a confirmation dialogue box, click "OK".

number of users, please regard a practical number as a standard.

Camera	User Name	Group						
Smart settings	No.	Group Name		Remark		Modify	Delete	
Network	1	admin		administrator group		2	•	
Event	2	user		user group		1	•	
Storage								
System								
General								
o Account								
Default								-
Import/Export	Authority List							_
Auto Maintain	Live	Record control	Account	Log Search	Clear Log	Upgrade		
Upgrade	Auto Maintain	General	Video/Audio	Schedule/Destination	Network	Abnormality		
Log	Video Detect	Default/Import/Export	Video config	Smart settings				
Version								
Online User	Add Group							



Account \rightarrow Group

Create user group:

Click "Add Group" to enter group adding interface.

Enter the group name and remark. "User group privilege" can set the basic privilege and channel privilege, and then click "OK" to finish user group adding.

Modify User Group:

Select the user to modify, click "modify" to enter the editing interface, and alter the remark and privilege.

Add or modify the user group both can configure the basic right and channel right settings.

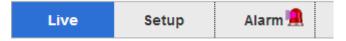
4.3. Alarm

Live Playback	Setup Alarm				
No.	Time	Alarm Type	Alarm Channel	Alarm Type Motion Detect Disk Error External Alarm Operation Prompt	🔲 Disk Full
				Alarm Tone	Browse

Figure 4-74 Alarm interface

Alarm → Alarm Type

Click 【Alarm】 to enter alarm setting interface and check the alarm type on WEB port. Alarm type contains dynamic monitoring and monitoring masking. Alarm information including: Time, Alarm type, Alarm channel.



Alarm \rightarrow Operation

Check **[**Prompt**]** Enable, Open reminding function: When the alarm occurs, the real-time previewing interface will appear alarm light, click alarm to enter alarming interface and check the text information.

Alarm→ Alarm Tone

Check [Play alarm tone enable], It is selectable for the alarm tone with local HDD prerecording, the alarm tone is MP3 format.

Chapter5. Function

5.1. DDNS Function

5.1.1. VSSIP

VSSIP is a professional dynamic domain name analysis server embedded in our company's IPC, please contact to the dealer or agent for account number of DDNS. Click the enable in the configuration window after getting the account number, and input the account number information and it will do.

5.1.2. CN99

Register

Register New Users or Login at www.3322.org.

Click "My Control Panel" at the navigation bar.

Click "new" under the DDNS on the left side.

Fill in the name of the host machine, IP address will automatically detect in the current internet. Leave the Mail Servers blank, and then click the "OK" button.

Embedded IPC Setting

Open $[Main Menu] \rightarrow [Configuration] \rightarrow [Network] \rightarrow [Advanced] \rightarrow [DDNS] \rightarrow Enable$

Name	Configuration
DDNS	CN99 DDNS
IP	Members.3322.org
Port	80
Domain name	xxx.3322.org
User	ххх
Password	хххххх

After setting up the information as above, user can access the Embedded IPC via XXX.3322.org

Notice: The main machine's IP should refer to the information of the website.

5.1.3. NO-IP (www.no-ip.com)

Register

Register new username at no-ip, click 【Create Account】.

Create domain name, click 【Add a Host】.

Embedded IPC Setting

Open $[Main Menu] \rightarrow [Management] \rightarrow [Network] \rightarrow [Advanced] \rightarrow [DDNS] \rightarrow [Enable]$

Name	Configuration
DDNS	NO-IP DDNS
IP	dynupdate.no-ip.com
Port	80
Domain name	xxx.xxx.org
User	XXX)
Password	хххххх

5.1.4. Dyndns DDNS (www.dyndns.com)

Register

To login at dyndns, register an account.

Click on the confirmation link, login the account, click 【Add Host Services】 at [My Services], set your

own realm name, and then operate according to the procedure.

Configuration of the Embedded IPC

$\mathsf{Open} \quad \mathsf{[Main Menu]} \rightarrow \mathsf{[Management]} \rightarrow \mathsf{[Network]} \rightarrow \mathsf{[Advanced]} \rightarrow \mathsf{[DDNS]} \rightarrow \mathsf{[Enable]}$

Name	Configuration
DDNS	Dyndns DDNS
IP	Members.dyndns.org
Port	80
Domain name	xxx.xxx.com
Username	ХХХ

Password	хххххх
----------	--------

5.1.5. Test and Verify DDNS

After setting the Embedded IPC, wait for a few minutes, analysis records will update. Click Operation in the Start Menu of computer, input "cmd", click "OK" to open a window.



Input "ping+ Domain name" then press Enter.

Administrator: C:\Windows\system32\cmd.exe - ping 192.168.20.84 -t	
Copyright (c) 2009 Microsoft Corporation. All rights reserved. C:\Users\Dennis>ping 192.168.20.84 -t	Ĩ
Pinging 192.168.20.84 with 32 bytes of data: Reply from 192.168.20.84: bytes=32 time<1ms TTL=64 Reply from 192.168.20.84: bytes=32 time<1ms TTL=64 Reply from 192.168.20.84: bytes=32 time<1ms TTL=64 Reply from 192.168.20.84: bytes=32 time<1ms TTL=64 Parly from 192.168.20.84: bytes=32 time<1ms TTL=64	
Reply from 192.168.20.84: bytes=32 time<1ms TTL=64 Reply from 192.168.20.84: bytes=32 time=1ms TTL=64	
Reply from 192.168.20.84: bytes=32 time<1ns TTL=64 Reply from 192.168.20.84: bytes=32 time=1ns TTL=64 Reply from 192.168.20.84: bytes=32 time<1ns TTL=64	

The computer will analyses the domain name configurated in IPC, and return to the current IP, as the picture shows underlined in red. When the IP corresponds to the embedded IPC's IP in Public internet, it means the DDNS is setting right. If they are not, please check the network connection of embedded IPC

and DDNS information.

5.2. Port Mapping

Port mapping is mapping a port of outside web host's IP address to a machine inside web, and provide the service. When user connects to the port of the IP, the server will automatically map the request to the corresponding machine inside LAN.

With the function of port mapping, we can map many ports of a machine's IP address to different machines' different ports inside web. The port mapping can also have other special agent functions, like POP, SMTP, TELNET, etc. Theoretically, it can provide more than sixty thousand ports.For example, if we want to map a web server which has an IP address of 192.168.111.10, we just need to input the IP address and TCP port 80 into the port mapping chart of the router.

There are two ways to map the port: UPnP function of automatically map and modify the router's port mapping chart by manual.

5.2.1. UPnP Function

In order to get connection to the Embedded IPC through Public network, we need to set the Router to cross the NAT of Embedded IPC. UPnP can make the NAT cross automatically by the UPnP agreement of Embedded IPC, and don't have to set the Router.

Note: to realize the UPnP Function, there must be Router support and enable the UPnP Function. **The first step**

Connect the Router to the network, get to the Menu of the Router, set the Router, then get to port, and enable the UPnP Function.

Routers made by different manufacturers may have some difference, please refer to the specification carefully before setting the Router.

The second step

Connect the Embedded IPCto the Router; the configuration will automatically gain the IP address or static IP. After setting up the IP, click the Advanced Config. And get to [the Network transmission capacity, ports and multicast etc.] to open the Enable at the [UPnP port mapping].

The default access port of Embedded IPC contains HTTP port 80 and TCP port 8000. If the port has been

occupied by other LAN equipment, please modify the default port number to an unuserd port number at

[network transmission capacity, ports, multicast etc.].

The third step

Enter the Router management interface; detect the port if there is already a Port mapping. If there is, it shows UPnP setting's finished.

The forth step

Input the IP address in IE, and add port number of the Embedded IPC, for example: 155.157.12.227:81. If you want to enter by the Client Software, use the TCP port offered by the outer net.

Note: if there are a few embedded IPCs need to set the UPnP function, in order to avoid IP conflict, set the ports of embedded IPC into different ports numbers. Otherwise, it will choose the embedded IPC port set preceded as the first choice.

5.2.2. Manual Port Mapping

The first step

Connect the Embedded IPC to the Router, set the static IP.

The second step

Log in Router, enter into the configuration menu of Router, and set the menu. Then get to port, set the IP distributed by the Embedded IPC, and set the rule of port mapping, add HTTP and TCP port into mapping list.

Default access ports of Embedded IPC include HTTP port 80 and TCP port 8000, if the ports are occupied by other LAN devices, please modify the default port of the Embedded IPC into other vacant ports at

【network transmission capacity, ports, multicast etc.】.

The third step

Input the public net IP address in the IE, and add the port number of the Embedded IPC you want to access after the IP, for example: http://155.157.12.227:81. If you want to access by Client Software, you can use the outer net TCP port directly.

ightarrow Notice: for detail configuration setting, please refer to the user manual of Router.

5.3. NTP Function

Enable NTP function; make the time synchronization with both the IPC and GPS clock server, to ensure the accuracy of device time.

5.3.1. Internet Configuration

Get to the **[**Configuration **]** \rightarrow **[**Network **]**, choose **[**Advanced **]**, and then choose **[**NTP **]** to set. After the device can access the Internet, NTP server can use the standard NTP server at Internet as clock source. For example, China National Center server timing (IP address: 210.72.145.44). Input the IP address and domain name of relative server at NTP setting.

To activate NTP, click to choose "Enable".

The interval of changing time is from 1 to 65535 minutes.

5.3.2. Intranet Configuration

If IPC work under the intranet, user can set up a privately-owned server as clock source. NTP address in IPC configuration fill in privately-owned NTP address can work.

Privately-owned NTP server can adopt standard NTP products and accurate time PC system. Please refer to below instruction when adopt PC system as a NTP server.

NTP Server Set Up under Windows

Click "Start" menu \rightarrow "Run" (or Win+R), and input "regedit" to get into REGEDIT.

Build a new key assignment of DWORD Value under :

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Parameters registry subkey;

Change the value to 1, and save.

Restart the computer.

NTP server set up under Linux system

Due to the particularity of Linux system, for detail way to erect the NTP server, please refer to every editions of the manual.

5.4. Voice Intercom

5.4.1. Summary

Embedded IPC Bidirectional Talk: user can talk to remote client software or Web via IPC audio input and output ports; user can hear voice via IPC audio output ports when talking to remote by the client software or WEB voice intercom.

5.4.2. Configuration

Local Configuration

Connect a microphone to the MIC input port, connect loudspeaker to the audio output port.

 \triangle ,

Note: local output needs active audio output device.

Remote PC Configuration

Connect microphone and loudspeaker to computer.

Using

To use voice intercom, please open remote client software or Web and click "voice intercom" to achieve voice intercom function.

Chapter6. APPENDIX

6.1. TERMS

Dual-stream

Dual-stream: one high bit rate stream for the local HD store, QCIF/CIF/2CIF/DCIF/4CIF coding, other low bit rate stream for network transmission, such as QCIF / CIF coding.

Dual-stream can achieve two different bandwidth stream requires of local transmission and remote transmission.

Local transmission with high stream can get a higher HD video storage and remote transmission use lower stream to adapt to the CDMA / ADSL or other network to obtain higher image fluency.

I Frame

I frame: intra frame image, remove redundant information to compress the transmittal data, also called key frames.

B Frame

B frame: According to time redundant of the source image sequence previously encoded frame and account the source image after the encoded frame to compress transmittal data, also known as bi-directional prediction frame.

P Frame

P-frame: according to image frame lower than the previous 'time redundant to compress transmittal data, also called predicted frames.

Wide Dynamic

Bright parts and dark parts in particular can be seen very clearly at the same time. Wide dynamic range is a ratio between the brightest luminance signal value and the darkest value.