Version 2015-11

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1 Note

Please prevail in kind, the instructions are for reference only.

This product may contain technical inaccuracies or typographical errors.

The products described in this manual may be updated at any time without notice.

This product manual shot may not from the same product, it is just for illustration.

If any doubt, or to obtain the latest procedures and additional documentation, please contact the company service department.

2 **Precautions**

The content is to make sure your operations of the products are strictly in accordance with this manual, so as to prevent danger or loss of property. So please read the manual carefully and keep it for your future reference before using the products.

As shown below, the preventive measures is divided into "Warning" and "Attention":

Warning: Without Warning may lead to death or serious injury.

Attention: Without attention may lead to injury or loss of property.

Warning To remind users to keep away	Attention To remind users to keep away
from potential death or danger of serious	from potential injury or danger of property from
injury.	loss



Please use the required power meets SELV (safety extra-low voltage circuit) to supply. In the accordance of IEC60950-1, the power should comply with the rated voltage of DC 12V and AC 24V (Depends on the specific model) of Limited Power Source.

If the equipment works abnormal, please contact your purchasing store or the nearest service center. Do not disassemble or modify the equipment in any methods.(If do without permission, user will be responsible for the result.)

In order to reduce the risk of fire or electric shock, please prevent the product from raining and moisture.

The installation should be done by the professionals and comply with local regulations.

Please install the easy-used electric failure equipment into wiring of the building.

The instruction of equipment installation on the ceiling: After installation, please to make sure the connection can withstand 50Newton(N) downward pull .



Before the camera running, please make sure whether the supply power is right.

Please do not drop off or heavily strike the product.

Please do not touch the image sensor optical element. If it is necessary to clean, please use the clean cloth slightly moist with alcohol to wipe dust; When not in use, please cover the lens to protect the image sensors.

Please avoid focusing at glare (e.g. lighting, sunlight etc.), or it will be resulting in too bright or colorful vertical stripes on the screen (which is not camera's error) and affect life of image sensors.

The laser beam may burn down image sensors. When the installation of laser beam used, please make sure that the surface of image sensors does not expose under the laser beam.

Please avoid followed places: moisture, dusty, hottest, coldest (Normal work temperature range: $-14^{\circ}F^{\rightarrow}+140^{\circ}F$) and strong electromagnetic radiation etc.

Please do not accumulate more heat and maintain ventilation flow around the camera.

When using the camera, please do not make water and any liquid flow into it.

When delivering the camera, please packing as shipping out or with the same quality material of the factory.

Parts change regularly: Some parts of the products (e.g. Electrolytic Capacitors) should change regularly according to their average lifespan. Their lifespan would be different for the using environment and using time, so please check them regularly. For more information, please consult with your purchasing distributors.

3 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.

Internet Options 2 S	1
General Security Privacy Content Connections Programs Advanced	Security Settings - Internet Zone
Set in view or change security settings.	Settings
Internet Local intranet Trusted sites Restricted sites	Enable Download signed ActiveX controls
Internet This zone is for Internet websites, except those lated in trusted and restricted zones.	Deable Deable (rot secure) Pronct (recommended) Download unsigned Active(x controls Deable (rocommended) Deable (rocommended)
Security level for this zone	Brable (not secure) Brable (not secure) Difference and soriot ActiveX controls not marked as safe for secure)
Custom settings. Custom settings. - To change the settings, click Custom level. - To use the recommended settings, click Default level.	Photoe and build acceler controls not marked as safe for so Deable (recommended) Endots (not secure) Prompt Only allow approved domains to use ActiveX without prompt Directler
Enable Protected Mode (requires restarting Internet Explorer) Custom level Default level	Takes effect after you restart Internet Explorer
Reset all zones to default level	Reset to: Medum-high (default)
OK Cancel Apply	CK Cencel

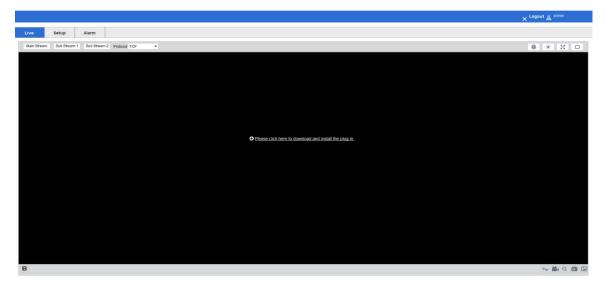
Figure 3-1 Set ActiveX Control and Plug-in

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, Browsing the interface :

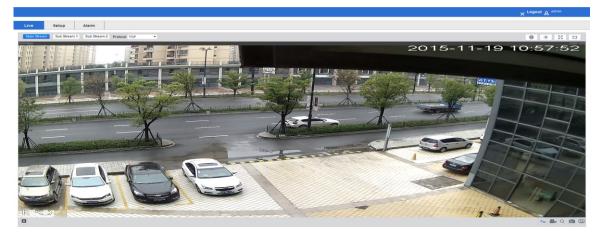


Figure 3-4 Browsing the interface

Live: to preview.

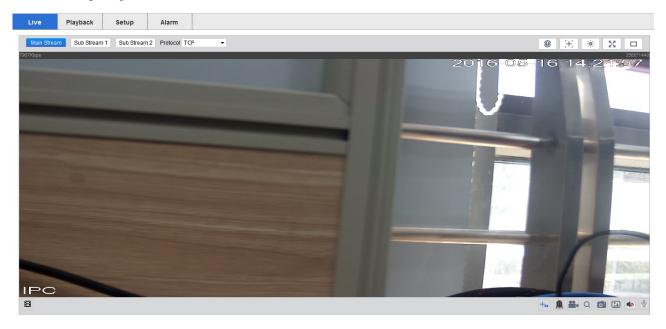
Setup: to set the parameters and functions.

Alarm: to check the alarm log.

4 Basic function operation

4.1 Preview interface information:

Click "Live" go to preview interface:



Stream: Mail Stream, Sub Stream 1, Sub Stream 2



High Definition Stream

Sub Stream 1 Standard Definition Stream

Sub Stream 2

Protocol: TCP/ UDP/ Multicast

Play Local Video:

Click to choose the recording file, then playback the video in the preview interface.

Display Alarm Subscription

Click (1), then right side will show the smart alarm monitor cascade interface

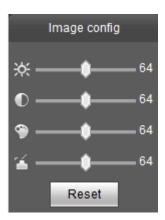
Zoom&Focus

Click ,then pop up Zoom&Focus interface.



Image Config

Click , then pop up image configuration interface.



Full Screen

Click $\stackrel{\text{def}}{\longrightarrow}$, the image is displayed in full screen.

Original/Adaptive

Click \square , switching the screen aspect ratio

Display Rules

Click display/ hide the rules

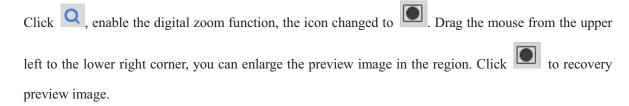
Relay-out

off, the button will change to

Record

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

Digital Zoom



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.

Tip: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:

	Video	Snapshot Ov	erlay	Interest Are	ea	
• video config	Main Stream		-	b Stream		
Image config Audio config			☑ E	nable	Sub Stream 1	•
erimeter set	Code-StreamType	General 👻	C	ode-StreamType	General	•
ace Capture	Encode Mode	H.264H 🗸	E	ncode Mode	H.264H	•
letwork	Resolution	2560x1440 (4M) 🔹	R	tesolution	D1 (704*480)	-
vent	Frame rate(FPS)	20 🔹	F	rame rate(FPS)	20	-
torage	Bit Rate Type	CBR 🔹	В	it Rate Type	CBR	-
ystem	Reference Bit Rate	1536-8192Kb/S	R	eference Bit Rate	128-2560Kb/S	
	Bit Rate	8192 🔹	В	it Rate	2048	-
	I Frame Interval	40 (20~15	i0) II	Frame Interval	40	(20~150)
	Watermark Settings					
	Watermark Character	DigitalCCTV				

Figure4-1 Video Parameters

Video configuration \rightarrow Main Stream

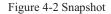
Video stream configuration parameters are described below:

Parameters	Description
Code-Stream Type	Choice of general code, motion detection code or alarm code
Encode Mode	Set video encoding mode according to the actual demand
Resolution	Different types of camera supports multiple resolutions, 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
o 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	Refresh Sa	ave	
System	Delault	Keiresii Si		



Video configuration \rightarrow 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 \rightarrow 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:

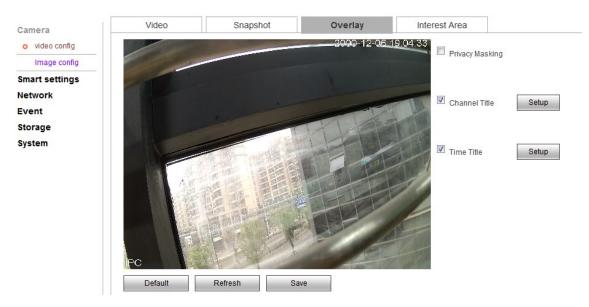


Figure 4-3 Overlay

Privacy Masking:

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

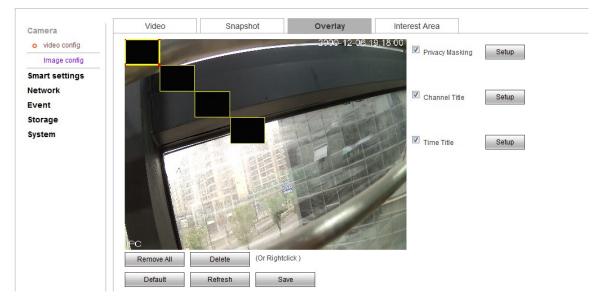


Figure 4-4 Overlay

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:

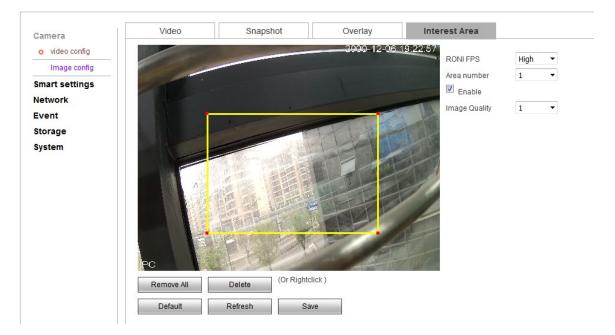


Figure 4-5 Interest area

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.

4.2.1.2 Image Configuration

Image configuration as show in figure 4-6:

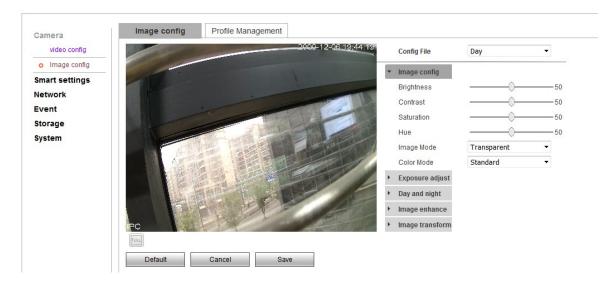


Figure 4-6 Image Configuration

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.

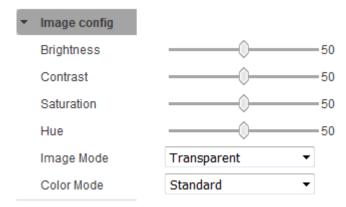


Figure 4-7 Image Config

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:

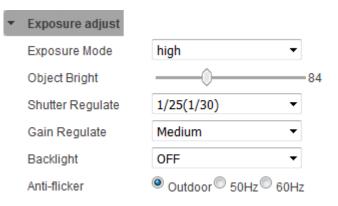


Figure 4-8 Exposure Adjust

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:

 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:



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

Live	Playback	Setup	Alarm			
Camera		Audio config				
video c	onfig	Noise reduction	ONO OFF	Audio output	50)
Image	config	Auto Gain	ONO OFF			
o Audio d	config			Audio input	50)
Perimeter	r set					
Face Cap	ture	Main Stream			Sub Stream	
Network		Enable Audio			Enable Audio	Sub Stream 1
Event		Encode Mode	G.711A		Encode Mode	G.711A
Storage		Elicode Mode	G./11A	•	Elicode mode	G./11A
System		Default	Refresh	Save		

Audio configuration shown in Figure 4-12:



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 time 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.

90700 P	Tripwire							
amera		_	রাণান্ড গ	16-16-16-16-12				
erimeter set			2010-0					
Global Config					Serialnumber	1	•	
o Tripwire	Tripwir				Start Tripwi	re		
Regional invasion	COLUMN TWO IS NOT				DetectionTarge		Vehicle	Other
Items stolen	NAMES OF TAXABLE	STATISTICS.						Uner Other
Items move	States and				Time setting	Setting		
DensityDetection					Rule name	Tripwire1		
NumberStat	Statistical and statistical statistics		and the second second	7 B	Direction	A<>B	•	
Through fence			and the second		ReportInterval	1		Second(1-200
					Recording			
Loitering Detection					Record delay			
Retrograde					10	Sac	ond(10-300)	
ce Capture	120					Sect	mu(10-300)	
etwork	IPC				Alarm output			
vent	Draw Rule Line	Clear Rule Line			Alarm delay			
orage					10	Seco	ond(10-300)	
stem	Default	Refresh	Save		Sendmail			
	10 C				Snapshot			

4.2.2.2 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"

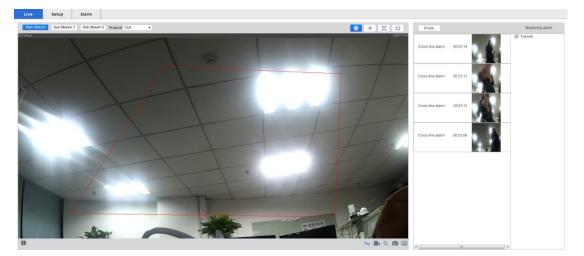
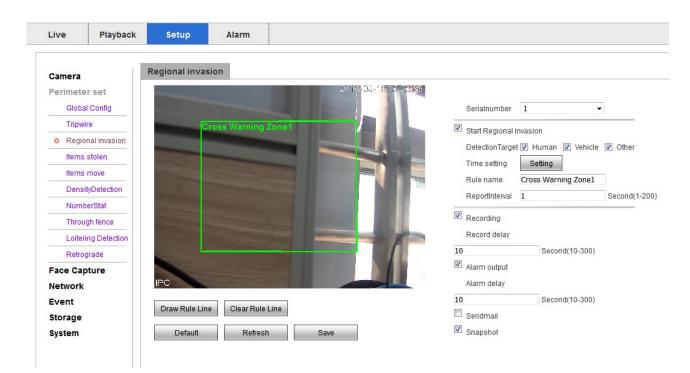
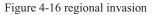


Figure 4-15 Display alarm subscription



4.2.2.3 Regional invasion



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".

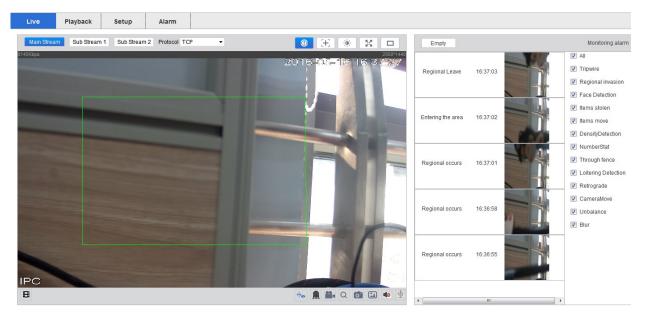
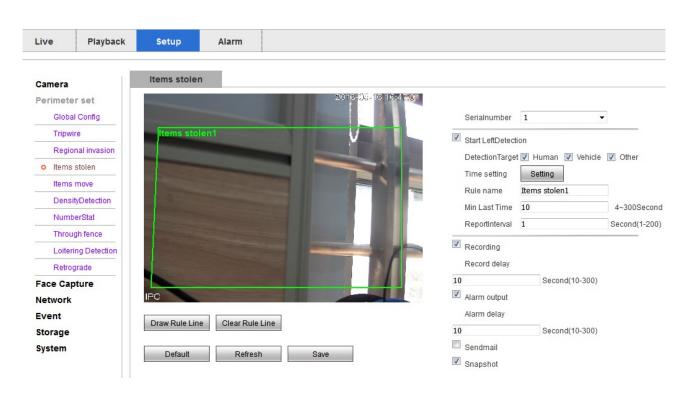
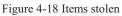


Figure 4-17 Display alarm subscription



4.2.2.3 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".

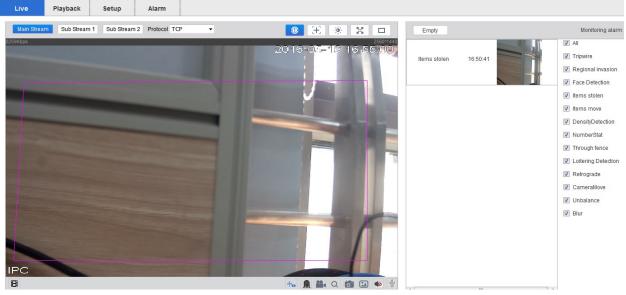
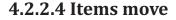
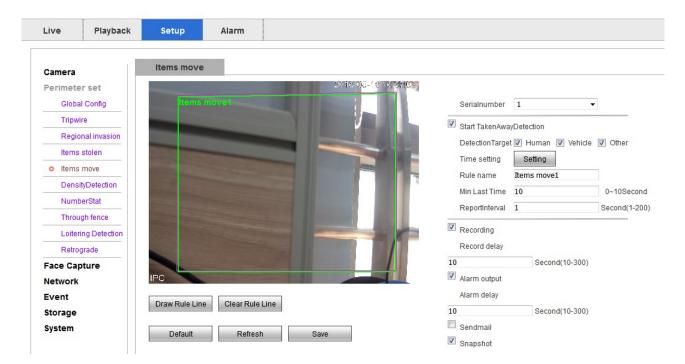
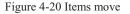


Figure 4-19 Display alarm subscription







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".

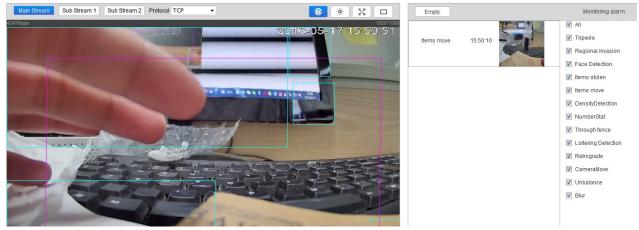
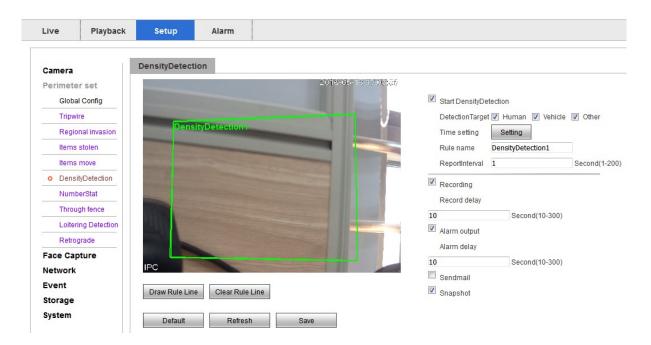


Figure 4-21 Display alarm subscription



4.2.2.5 Density Detection

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".

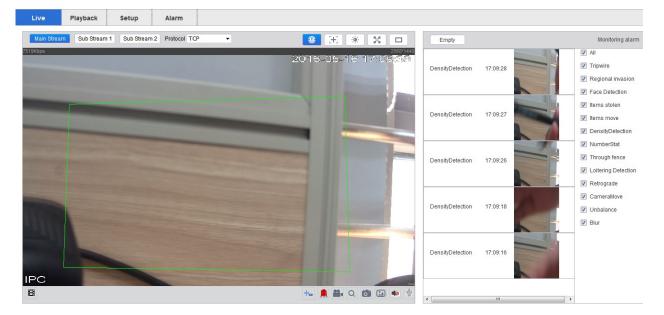
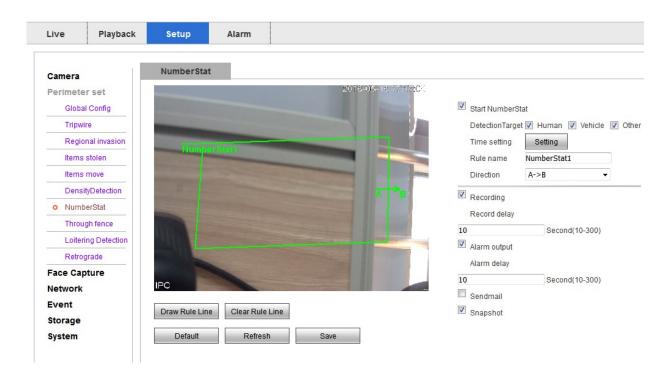


Figure 4-23 Display alarm subscription



4.2.2.6 Number Stat

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"

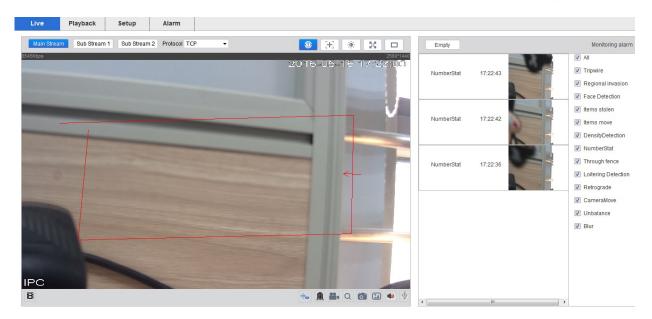
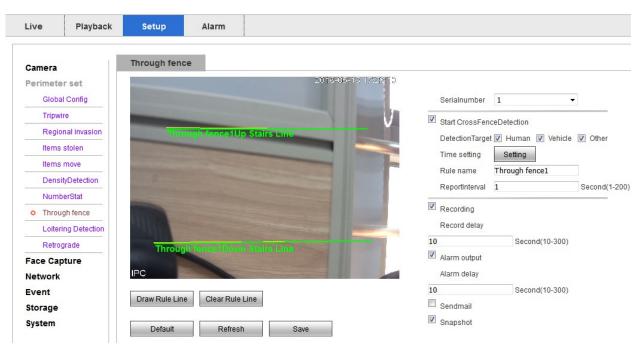
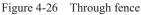


Figure 4-25 Display alarm subscription



4.2.2.7 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,

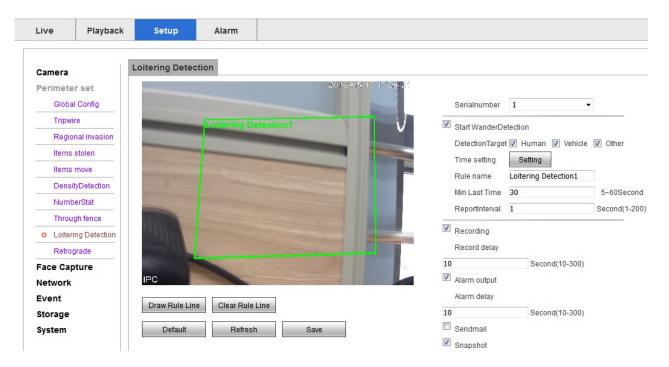
disable it, then enable the through fence).

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"

Live Playback Setup Alarm				
Main Stream Sub Stream 1 Sub Stream 2 Protocol TCP	E * K	Empty		Monitoring alarm
4993Kbps	¹⁸²⁰¹⁰⁰⁰ 2000-01-05 09:37:54	Through fence	09:37:45	All Tripwire Regional invasion Face Detection
				Items stolen Items move DensityDetection
				 NumberStat Through fence Loitering Detection
and the second second				Retrograde CameraMove Unbalance
				☑ Blur
В	t. 🔒 🚔 Q 🙆 💷 🐠 🖞	•	m	•

Figure 4-27 Display alarm subscription



4.2.2.8 Loitering Detection

Figure 4-28 Loitering Detection

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

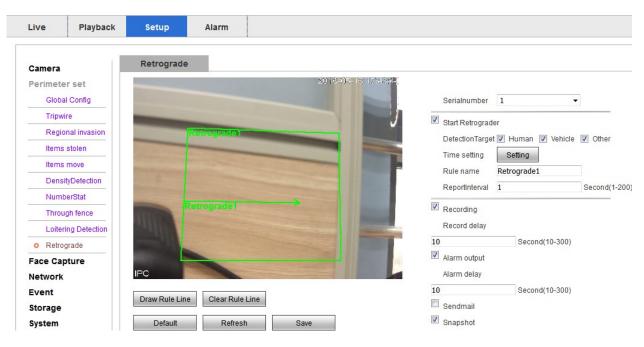
1) Enable the loitering detection(if can't enable, please check whether you enable the motion detection, disable it, then enable the loitering detection).

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".

Live Playback Setup Alarm			
Main Stream Sub Stream 1 Sub Stream 2 Protocol TCP	3 ± * × □	Empty	Monitoring alarm
Alan Stream 1 Sub Stream 2 Protocol TCP		Empty Loitering 17:41:0 Detection	
IPC	+. 🔒 🏭 Q 🗿 🖬 🐠 🖞		
		•	•

Figure 4-29 Display alarm subscription



4.2.2.9 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".

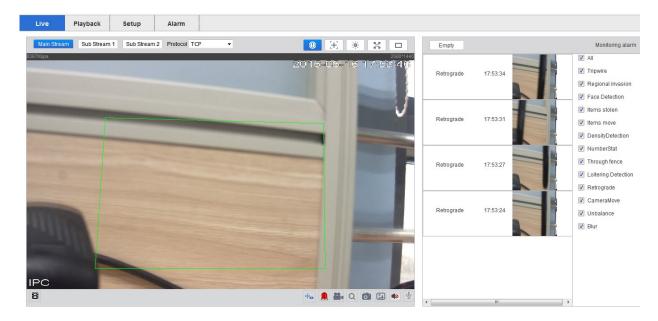


Figure 4-31 Display alarm subscription

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

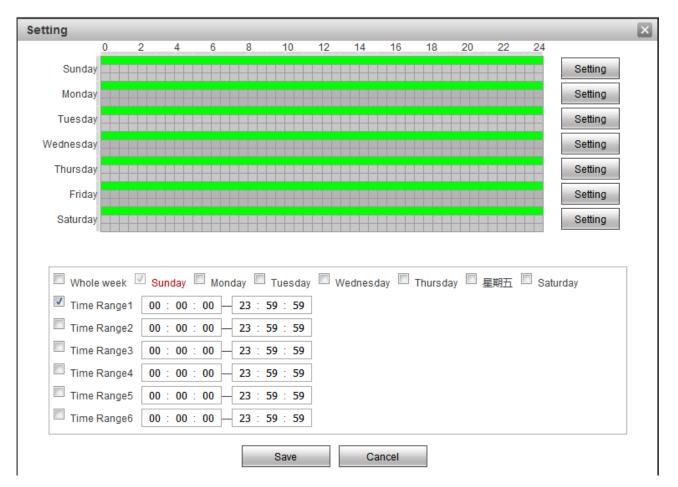
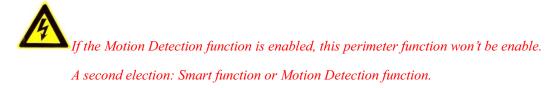


Figure 4-32 time setting



4.2.3 Face Capture

erimeter set				
ace Capture		2016-05-17 11:5	🔲 Open face capture	
• Face Capture			Time setting	Setting
etwork			Recording	
vent	State of the local division of the local div		Record delay	
torage			10	Second(10-300)
ystem			Relay-out Alarm delay	
			10	Second(10-300)
	San Marketon States		Sendmail	
			Snapshot	

4.2.3.4 Face Capture

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".

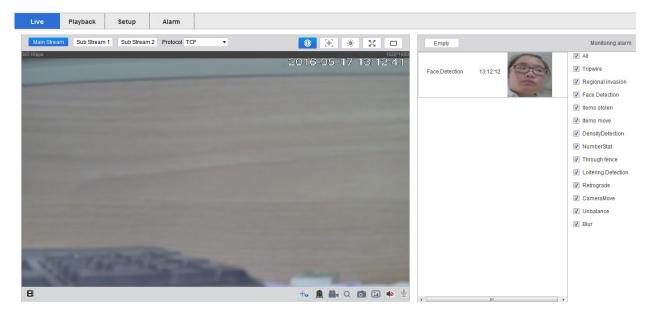


Figure 4-34 Display alarm subscription

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		
mart settings	Host Name	IPC	
Network	Ethernet Card	Wire(DEFAULT)	
o TCP/IP	Mode	● Static ◎ DHCP	
Port	MAC Address	e0 · 61 · b2 · 28 ·	89 · 4b
PPPoE 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	
P2P	Alternate DNS Server Enable ARP/Ping to set	8 · 8 · 8 · 8	
BullCloud			
Phone push	Default	Refresh Save	
Event			
Storage System			
-,		Figur	e 4-36 T

4.2.4.2 PPPOE

PPPOE Settings as shown in figure 4-16 :

Camera	PPPoE		
Smart settings	Enable		
Network	Username	none	
TCP/IP	Password		
Port	Defeuth	Defeat	0.000
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.

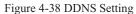
Input PPPOE username and password, click ok. If dial successfully, camera will get a public IP address After modifying related parameters, it needs to click ok button to save the associated settings

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	Refresh Sav	
SMTP(Email)	Delaut	Reliesh Sav	
UPnP			
Multicast			
P2P			
BullCloud			
Phone push			
Event			
Storage			
System			



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				
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)

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
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

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

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:

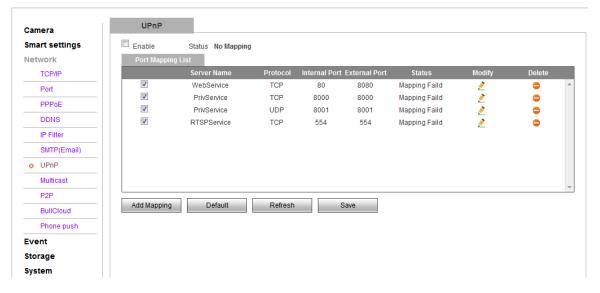


Figure 4-41 Upnp Settings

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	Sub Stream 1		
DDNS	Enable		
IP Filter			
SMTP(Email)	Multicast Address		(224.0.0.0~239.255.255.255)
UPnP	Port	36667 ((1025~65534)
o Multicast	Sub Stream 2		
P2P	Enable		
BullCloud	Multicast Address		(224.0.0.0~239.255.255.255)
Phone push	Port	36668 ((1025~65534)
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	In network service			
Smart settings	P2P	Enable	•	
Network				
TCP/IP	Transmission QOS	Disable	•	~
Port	Account multiplexing			
PPPoE	Device ID	0028894b		46.22.3247287
DDNS	Control password	g40TRi		2007 N. M. M. M. M.
IP Filter	Local port	3000	(3000-65534)	in the second second
SMTP(Email)	Connection status	Online		
UPnP				ET 2444 4 144
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:

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

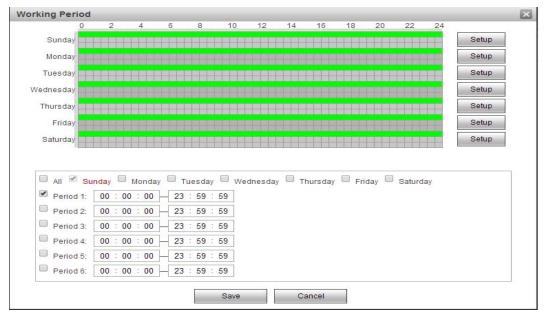
4.2.5.1	Video	detection
---------	-------	-----------

Live Playba	sk Setup Alarm			
Camera	Motion Detect Video Masking CameraMove	Unbalance	Blur]
Perimeter set	Enable			
Face Capture Network Event o Video Detect Alarm	Working Period Setup Anti-Dither 5 Area Setup			
Abnormality	Record Delay 10 Second(10~300)			
Storage System	Relay-out Alarm Delay 10 Second(10~300) Send Email Snapshot			
	Default Refresh Save			

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.

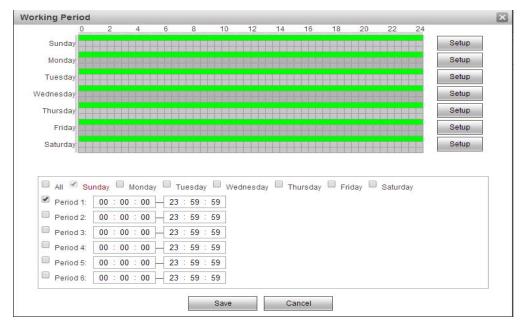
You need to click[OK] to save parameters.

Video detection \rightarrow Video Masking

Camera	Motion Detect Video Masking
Smart settings	V Enable
Network Event	Working Period Setup
• 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.

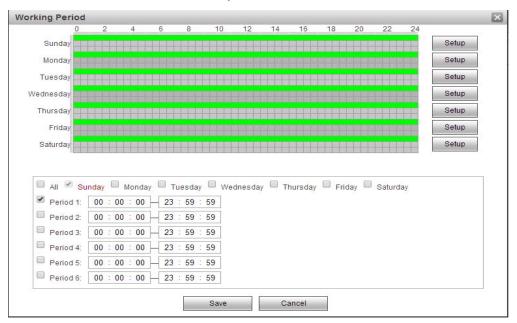
Video detection → CameraMove

Live Playback	Setup Alarm		
Camera Perimeter set Face Capture Network Event o Video Detect Alarm Abnormality Storage System	Motion Detect Video Masking CameraMove Enable Setup Setup Time interval 10 Second(0~3600) Sensitivity 5 Second Record Second(10~300) Relay-out Alarm Delay 10 Send Email Snapshot Default Refresh Save	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"

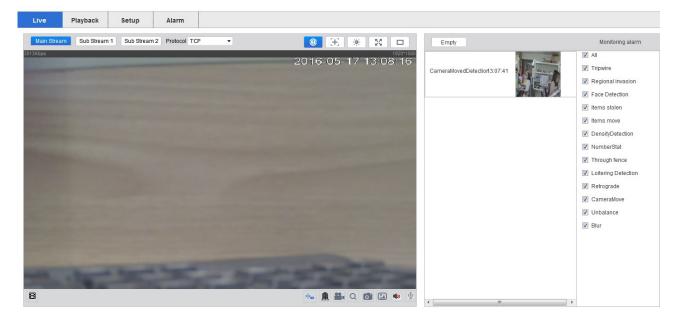


Figure 4-52 Display alarm subscription

Live Playbac	k Setup .	Alarm
Camera	Motion Detect	Video Masking CameraMove Unbalance Blur
Perimeter set	Enable	
Face Capture	Working Period	Setup
Network	Time interval	10 Second(0~3600)
Event	Sensitivity	5
• Video Detect		
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
	2 ordun	

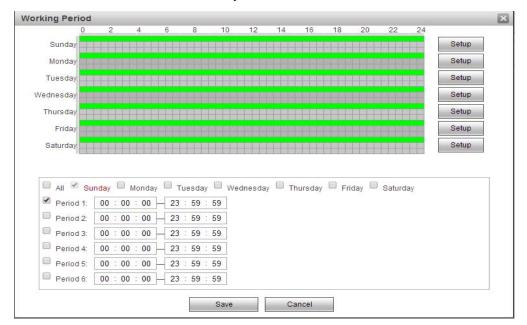
Video detection \rightarrow Unbalance

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.



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"

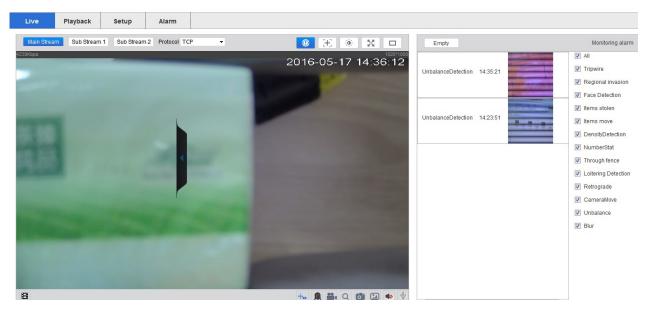
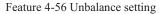


Figure 4-55 Display alarm subscription

Live Playback Setup Alarm Blur Motion Detect Video Masking CameraMove Unbalance Camera Enable Perimeter set Face Capture Working Period Setup Network Time interval 10 Second(0~3600) Event Sensitivity - 5 • Video Detect Record Alarm Record Delay 10 Second(10~300) Abnormality Relay-out Storage Alarm Delay 10 Second(10~300) System Send Email Snapshot Default Refresh Save

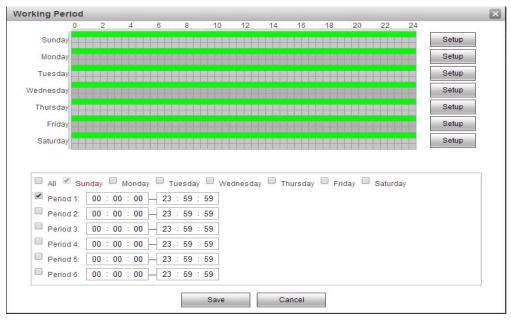
Video detection →Blur



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.

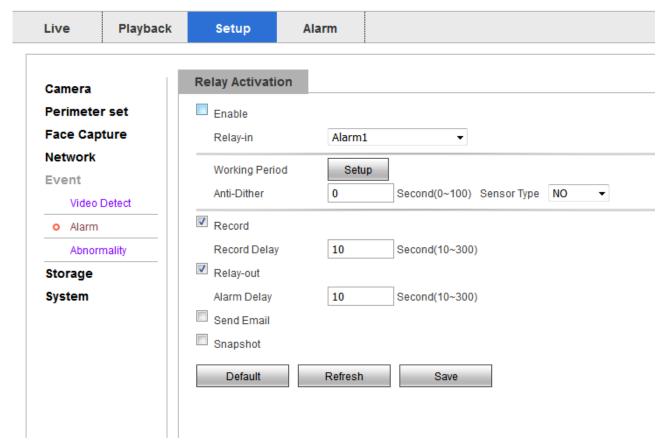
Back to the live view page. You will see the rule you drew. Click the alarm snapshots, and tick the unbalance, If

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

Live Playback Setu	up Alarm				
	o Stream 2 Protocol TCP •	3 H (1) H	Empty		Monitoring alarm
320Kbps		2016-05-17 14:50:55	BlurDetection	14:50:45	All Tripwire Regional invasion Face Detection
	1000		BlurDetection	14:50:15	 Items stolen Items move DensityDetection
			BlurDetection	14:49:45	NumberStat NumberStat NumberStat Loitering Detection Retrograde
			BlurDetection	14:49:15	 CameralMove Unbalance Blur
			BlurDetection	14:48:45	
B		♣ ♣ ♀ ◙ ⊇ ♦ ⊻	•		-

Figure 4-58 Display alarm subscription

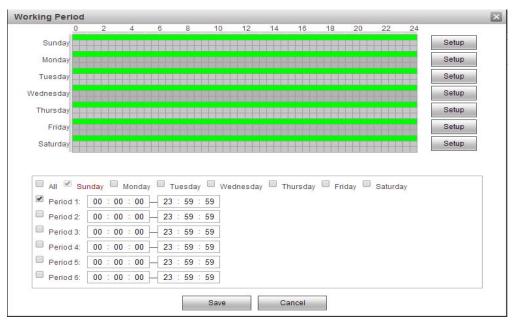
4.2.5.2 Alarm





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.

4.2.5.2 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.

o Abnormality Storage System

Live	Playback	Setup	Alarm
Camera		No SD Card	Capacity Warning SD Card Error Disconnection IP Conflict
Perimet	er set	Enable	
Face Ca	pture	Relay-out	
Network		Alarm Delay	10 Second(10~300)
Event		Send Email	
Video	Detect	- Othe Enhalt	
Alarn		Default	Refresh Save
o Abno			
Storage			
System			
system			
	1	I	
			Feature 4-58 No SD Card
Live	Playback	Setup	Alarm
-		No SD Card	Capacity Warning SD Card Error Disconnection IP Conflict
Camera			
Perimete		Enable	
Face Ca		Capacity Limit	10 %(0~99)
Network		Relay-out	
Event		Alarm Delay	10 Second(10~300)
Video	Detect	Send Email	
Alarm		Default	Refresh Save
o Abnor	mality	Delault	Reliesh
Storage			
System			
			Feature 4-59 Capacity Warning
Live	Playback	Setup	Alarm
	•		
	. [No SD Card	Capacity Warning SD Card Error Disconnection IP Conflict
Camera		No SD Card	Capacity Wathing SD Card Error Disconnection IP Connect
Perimete	er set	Enable	
Face Ca	pture	🕅 Relay-out	
Network		Alarm Delay	10 Second (10~300)
Event		Send Email	
Video	Detect		
		Default	Refresh Save

Feature 4-60 SD Card Error

Live Playb	ack Setup	Alarm				
Camera	No SD Card	Capac	ity Warning	SD Card Error	Disconnection	IP Conflict
Perimeter set	Enable					
Face Capture	Record					
Network	Record Delay	10	Second (10~	300)		
Event	Relay-out					
Video Detect	Alarm Delay	10	Second (10~	300)		
Alarm						
• Abnormality	Default	Refresh	Save			
Storage						
System						
Live Plavi	back Setup		ature 4-61 Dis	connection		
Live Play	back Setup	Fe:	ature 4-61 Dis	connection		
Live Playi Camera	Dack Setup	Alarm	ature 4-61 Dis	Connection SD Card Error	Disconnection	IP Conflict
		Alarm			Disconnection	IP Conflict
Camera	No SD Card	Alarm			Disconnection	IP Conflict
Camera Perimeter set	No SD Card Enable	Alarm		SD Card Error	Disconnection	IP Conflict
Camera Perimeter set Face Capture	No SD Card Enable Record	Alarm	vacity Warning	SD Card Error	Disconnection	IP Conflict
Camera Perimeter set Face Capture Network	No SD Card Enable Record Record Dela	Alarm	vacity Warning	SD Card Error	Disconnection	IP Conflict
Camera Perimeter set Face Capture Network Event	No SD Card Enable Record Record Dela Relay-out Alarm Delay	Alarm Cap y 10	pacity Warning Second (SD Card Error 10~300) 10~300)	Disconnection	IP Conflict
Camera Perimeter set Face Capture Network Event Video Detect	No SD Card Enable Record Record Dela Relay-out	Alarm Cap	pacity Warning Second (SD Card Error	Disconnection	IP Conflict
Camera Perimeter set Face Capture Network Event Video Detect Alarm	No SD Card Enable Record Record Dela Relay-out Alarm Delay	Alarm Cap y 10	pacity Warning Second (SD Card Error 10~300) 10~300)	Disconnection	IP Conflict
Camera Perimeter set Face Capture Network Event Video Detect Alarm o Abnormality	No SD Card Enable Record Record Dela Relay-out Alarm Delay	Alarm Cap y 10	pacity Warning Second (SD Card Error 10~300) 10~300)	Disconnection	IP Conflict

4.2.5 Storage

4.2.5.1 Schedule

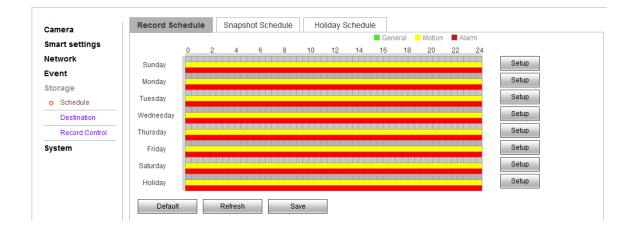
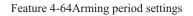


Figure 4-63 video management settings

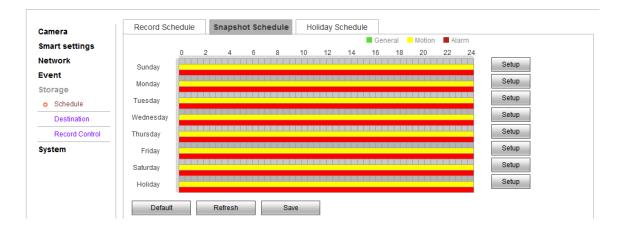
Record Schedule:

Click the "Setup" to manage the schedule time

Setup	×
All 🗹 Sunday 🗖 Monday 🗖 Tuesday 💭 Wednesday 💭 Thursday 💭 Friday 💭 Saturday 💭 Holiday	
Period 1: 00 : 00 - 23 : 59 : 59 General 🖉 Motion 🖉 Alarm	
Period 2: 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Period 3: 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Period 4: 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Period 5: 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Period 6: 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Save Cancel	



Snapshot Schedule:





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

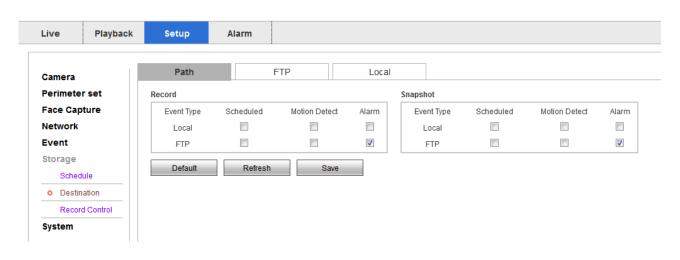
There are two kinds of picture capturing: automatic image capture and manual image capture. For the automatic image capturing, refer to all-day time image capturing. For the manual image capturing, you can configure the recording schedule as much as 6 different image capturing time each day.

The image capturing type can be normal/motion detection.

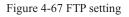
Holiday Schedule:

Figure 4-66 holiday time schedule setting

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



4.2.5.2 Destination



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.

4.2.5.3 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 Off	
Schedule	Record Stream	Main Stream 👻]
Destination	Default	Refresh Save	
Record Control	Delault	Reliesh 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.

4.2.6 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.

4.2.6.1 Local Settings

Camera	General	local config		Date&Time
Smart settings	Device Name	03115807_1181	80	
Network	Language	English	•	
Event	Video Standard	NTSC	•	
Storage	Default	Refresh	Save	
System	Delault	Reliesh	Save	
o 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				Browse
Event	Record Path	D:\用户目录\我的文档\		Blowse
Storage	Alarm capture path	D:\用户目录\我的文档	IPC-Download	Browse
System	Default	Save		
o General	Doldan	0010		
Account				
Default				
Import/Export				
Auto Maintain				
Upgrade				
Log				
Version				
Online User				



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
System	DST Enable		
o General	DST Type	🖲 Date 🛛 Week	
Account	Start Time	Jan ▼ 1 ▼ 00 : 00	: 00
Default	EndTime	Jan ▼ 2 ▼ 00 : 00	: 00
Import/Export	Synchronize with NTP		
Auto Maintain	NTP Server	clock.isc.org]
Upgrade	Port	123]
Log	Update Period	10 Minute(0~30)	
Version	Default	Refresh Save	
Online User	Delault	Reliesh 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.

mart settings	No.	User Name Group	Name	Remark		Modify	Delete
etwork	1	admin adr		admin 's account		2	•
vent							
torage							
ystem							
General							
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	Anonymous	s Login					

4.2.6.2 Account

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".

Admin super user can only change the password. Different models can create different 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 → 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 Full
					Disk Error	🔲 Video Masking
					External Alarm	
					Operation	
					Prompt	
					Alarm Tone	
					Play Alarm Tone	
					Tone Path	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.

5 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 (<u>www.3322.org</u>)

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 \quad \texttt{[Main Menu]} \rightarrow \texttt{[Configuration]} \rightarrow \texttt{[Network]} \rightarrow \texttt{[Advanced]} \rightarrow \texttt{[DDNS]} \rightarrow \texttt{Enable}
```

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

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 (<u>www.no-ip.com</u>)

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	XXXXXX	

5.1.4 Dyndns DDNS (<u>www.dyndns.com</u>)

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.

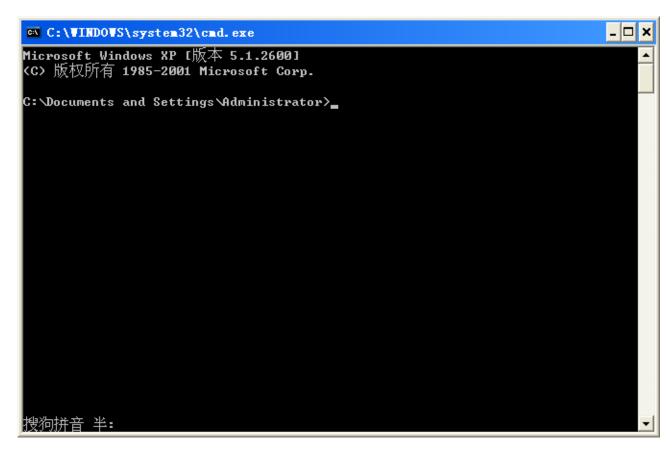
Configuration of the Embedded IPC

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

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

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. As 错误!未找到引用源。 shows.



Input "ping+ Domain name" then press Enter, as the 错误!未找到引用源。 shows.

```
C:\WINDOWS\system32\cmd.exe
                                                                           _ 0
Microsoft Windows XP [版本 5.1.2600]
(C) 版权所有 1985-2001 Microsoft Corp.
C:\Documents and Settings\Administrator>ping 🔜 1002.vssip.net
Pinging 002.vssip.net [123.157.155.106] with 32 bytes of data:
Reply from 123.157.155.106: bytes=32 time<1ms TTL=128
Ping statistics for 123.157.155.106:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = Oms, Maximum = Oms, Average = Oms
C:\Documents and Settings\Administrator>
搜狗拼音 半:
                                                                               -
```

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.

 \bigwedge 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 a finetwork 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 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.

 \bigwedge 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.



 \bigwedge 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.

6 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.