1080P 23X Network IR PTZ Camera

User manual

Contents

1 Introduction	1
Performance Characteristics Features	1
2 Hardware Installation	
System requirement	
Installation environment	
Installation environment requirements	
Recommend operating environment	
Hardware installation steps	
Network connection	
Connection instruction	
3 Operating Guide for Network High Speed Dome	
Set the IE Browser	
Download and Install ActiveX	
Login	8
Live view	ç
Playback	
File management	
System specification setting	
Device Information	
QR code	
PTZ Settings	
Time Settings	
Audio Settings	
Display settings	
Streams	
ROI Settings	
Camera set	
Motion Detection	
Video Tampering	
Target Count	
Object Left/Lost	
Area Detection	
Line Crossing	
Video Plan	
Network Settings	
Http/Https	
Management Platform	
Multicast Config	
DDNS Setting	
UPnP Settings	
Email Settings	
Alarm Input	
Alarm Output	
Exception	
User Management	
System Update	
Auto Reboot	
Storage Management	
Restore	
Local Setting	
Developer	
Log	
Alarm	
4 Appendix	
SPECIFICATIONS	
Network Interface of Network High Speed Dome	
Default Network Parameters	
Network High Speed Dome DDNS	

DDNS description	43
Network High Speed Dome DDNS analytical process	43
Visit Network High Speed Dome under different network environments	
LAN	43
Static IP	43
Dynamic IP	44
Internet	44
Frequently asked questions	48

CAUTION



- Non-technician should not try to operate this high speed dome before reading this manual carefully. (This manual are subject to change without prior notice.)
- Cut the power supply off before operating the device to avoid damage caused by mal-operation.
- Interior of the camera are precision optical and electrical instruments. Heavy pressure, shock and other incorrect operations should be prevented. Otherwise, may cause damage to product.
- Please do not use the product under circumstances where the limits exceed the maximum specified temperature, humidity or power supply specifications.
- Contents in this manual may be different from the edition that you are using. Should any unsolved problem occur given that the product is used according to this manual, please contact our technical support department or your product suppliers.
- This manual content will be updated unscheduled, our company reserves the right to do manual contents update without further notice.
- The default user name for this device is "admin", and the password is "blank" (Users can set the password according to the reminder).
 Default IP address is 192.168.1.188, HTTP port is 80, device port is 5050. Default communication protocol is pelcoD, baud rate is 115200 BIT/s, and PTZ address is No.1
- Device will enable preheat function when it is cold booting below -20 °C, it will take about 30 minutes to warm up and get the device to start normal work.
- PTZ camera installation grounding lightning protection: ground resistance ≤4Ω, ground wire (Olivine copper wire) sectional area ≥ 1.2mm².

PACKING LIST

Check if the packing contents match the packing list on receiving the products. The packing list is as below.

Part	Quantity
Network IR PTZ Camera	1
Wall mounting bracket	1
Power supply	1
Screws bag	1
CD	1
Glove	2

Contact your local retailer if anything is missing in your package.



1 Introduction

Performance Characteristics Features

- Support max 1920*1080@30fps HD video output
- H.264/H.265/MJPEG encoding
- Low illumination 0.02Lux/F1.6(Color), 0.002Lux/F1.6(B/W), 0 Lux(IR on)
- 23X 2MP UHD optical zoom auto focus lens
- Support 3DNR, WDR, defog, HLC, anti shake, etc
- Support 360° pan endless; tilt 0°-90°
- Support manual speed: 0.1°-180°/S, preset:200°/S
- 256 presets, 4 pattern scan, 8 preset cruise
- 3D positioning, privacy mask, PTZ watch
- Support target counting, Object Left/Lost, area detection, line crossing detection
- 1CH audio input, 1CH audio output
- 2CH alarm input, 1CH alarm output, support alarm linkage
- Support smart IR grouping control, IR distance can reach 120m
- Support max 128G Micro SD card
- SDK, ONVIF, API, GB/T28181 protocol
- Lightning Protection, surging prevention, anti surge, IP66 protection level

2 Hardware Installation

System requirement

- LAN or WAN Internet to connect server, via PC Ethernet (network card or network cable) TCP/IP protocol (Windows /NT/2000/XP) connect, suggest Internet Explorer 9.0 version or later.
- Monitor and PC configuration:

CPU: PIII or latter, RAM: 512M or latter(Above DirectX8.1)

- Monitor: 17",1920×1080 resolution
- Operation system: Windows NT, Windows2000, Windows XP or later.

Installation environment

Installation environment requirements

Far away from humid or high-temperature environment; Choose proper place for ventilation; avoid installing on shaky place, and try to stay away from heat device.

Recommend operating environment

-30°C~60°C

Hardware installation steps

Please make sure LAN and WAN are working in order before installation of the Network High Speed Dome. After checked all the network system in good condition, keep your hands clean and dry, following the steps below.

- Unpack the box to check the goods
- Take out all goods which needed for installation from the box
- Take off the protection cover and insert the TF card. Please refer to the TF card installation steps below.



Figure 2-1



Figure 2-2

Remove the screws of ornament(2pcs),then take off ornament

Loosen the screws of horizontal installation panel(4pcs), then put up the panel for a little



Loosen the screws of back cover(4pcs),and take off the cover

Figure 2-3

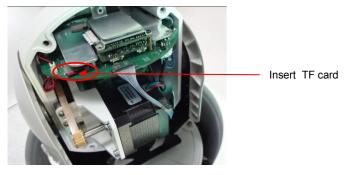


Figure 2-4

- Connect related cables according to actual need (Power line, network line, audio line etc.)
- Connect the power supply

Please read the Note carefully, any question you should contrast us without hesitation.

Note:

- When open the box, please check all of parts carefully, confirm the parts in the box as same as packing list.
- Please read the user manual carefully before the installation.
- Make sure to turn off all the power when install the camera
- Please confirm the power transformer, avoid the device damage with unmatched power source

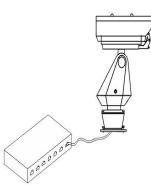
Network connection

LAN connection

Use one network line to connect IP camera with concentrator or switchboard of the LAN. As shown below, you can also use one network line to directly connect Network High Speed Dome with your network card or switchboard

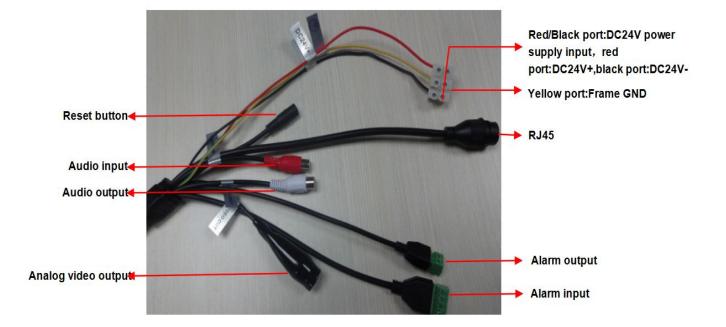
WAN connection

Use one network line to connect Network High Speed Dome with Router or XDSL Modem/Cable Modem. as shown bellow.



- Connect the power supply
 - After connect the power source, the network camera will start operation automatically.

Connection instruction



3 Operating Guide for Network High Speed Dome

Set the IE Browser

Due to the high level of IE security settings, the downloading of ActiveX and the updating of software will be influenced, probably failed to conduct that. To realize the function of visiting the network PTZ camera video, it need to set the IE browser previously.

Setting Method: Open the IE browser, click "Internet Options" into the "tools/Internet Options/Security/Custom Level" page, click the "Custom Level", and then "Start Using" the "ActiveX and plugins". You can choose the recommended choice if it's unsafe to start using, as shown in the figure below:

C S http://192.168.1.188/	P = C × ◎ HD-Network Real-time Mo ×		↑ ★ 🔅
Download Plugin		Print File Zoom (100%) Safety	* * *
	NETWORK CAMERA Real-Time Monitoring System	View downloads Manage add-ons F12 developer tools Go to pinned sites	Ctrl+J
	Username admin Password -	Internet options About Internet Explorer	
	Plugin Type : IE Plugin		
	English		

General Security Privacy Content Connections Programs Advanced	Settings Enable Download signed ActiveX controls (not secure) Disable
Internet ocal intranet Trusted sites Sites Sites Security level for this zone Sites Custom - Your security settings are below the recommended level, putting your computer at an increased risk of online tatak.	
- To change the settings, click Custom level. - To use the recommended settings, click Default level.	C Enable
Enable Protected Mode (register exclaring Internet Explorer) Custom level Default level Reset all zones to default level	*Takes effect after you restart your computer Reset custom settings Reset to: Medium-high (default) • Reset
OK Cancel Apply	OK Cancel

Download and Install ActiveX

You need to install ActiveX Control when you visit Network High Speed Dome for the first time through IE browser. ActiveX installing method:

Download installation

Input the IP address of Network High Speed Dome(default address http://192.168.1.188.) in Internet Explorer to enter into login page, Click to download and install Active X, it will pop-up installation control message after clicking, Click "run", install the ActiveX according to the prompt.as shown in the following figure:

Download Plugin		
	NETWORK CAMERA Real-Time Monitoring System	
	Username : admin Password : Plugin Type : IE Plugin	
	English Cogin Forgot password?	
Do you want to run or save rtspvid	oplugin.exe (1.65 MB) from 192.168.1.188 ? ur computer.	Run Save V Cancel

Figure 3-1

A file download dialog will pop out, click "Next" to installation. as shown in the follow figure 3-2





Select the ActiveX installation and storage file, the default installation and storage file is c:\Program Files\webactivex-rtsp, and click "Next" to enter next dialog. as shown in the follow figure 3-3

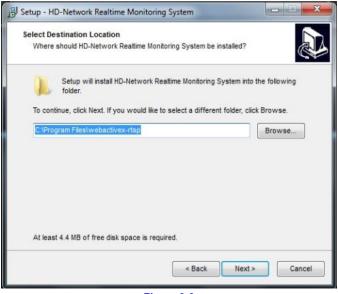


Figure 3-3

Click " Install" to enter into the next dialog. as shown in the follow figure 3-4

Ready to Install		
Setup is now ready to begin installing H on your computer.	ID-Network Realtime Monitoring Syste	em (C
Click Install to continue with the installat change any settings.	tion, or click Back if you want to revie	w or
Destination location:		
		-

Figure 3-4

Click "Finish" to complete the ActiveX installation. as shown in the follow figure 3-5

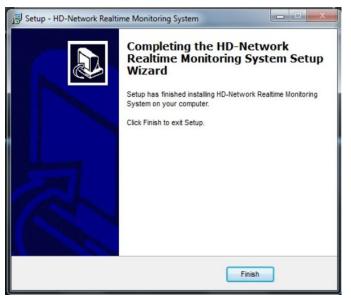


Figure 3-5

Login

After installing the Active X, click "Login" will prompt whether to change the password, as shown in the following figure:

NETWORK CAMERA Real-Time Monitoring System	
Username : admin Password : Plugin Type : IE Plugin 🔽	
Message from webpage Do you need to modify your password? Click OK to modify, click Cancel to no longer alert OK Cancel	

Figure 3-6

User Name: admin (default setting)

Password: blank (default setting) (Users can set the password according to the reminder)

Plugin Type: IE Plugin or Flash Plugin. If you use IE browser, then please select IE Plugin to login. While you use other browsers, then select Flash Plugin to login. (Note: Select Flash Plugin without installing Activex control)

Select Language: English, implified Chinese, traditional Chinese

Note: if user sets password and then forgets, click on Forgot password? below the "login", will pop-up password reset window (user name default admin), can return password to factory settings according to the prompt.

password reset				
Username: Next Back				
password reset				
Username: admin				
Serial No: 020201230ff3b0e9bf44				
Unique Identifier: 702712KW3d4V2ZB0				
Reset Info:				
Warm Tips: Please contact the manufacturer to provide relevant				
information for reset information!				
Save Back				

Live view

Note: The inserted TF card is for full function display interface, otherwise, it's for simple type interface. Live preview interface as shown in the follow figure:

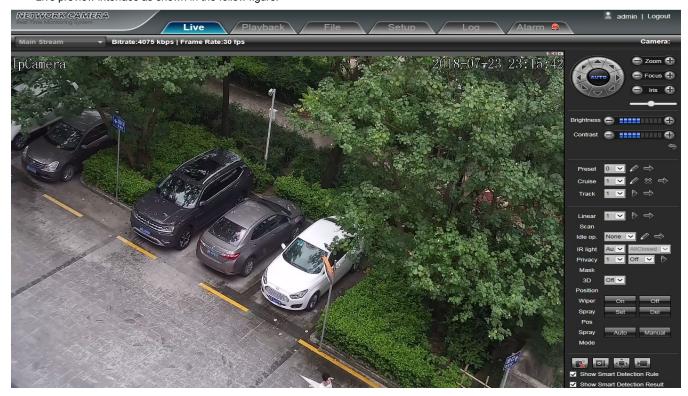


Figure 3-7

In the Live view interface, users can do operations such as voice intercom, listen, capture, full-screen preview, video record, Event Type check, PTZ and lens control, brightness, contrast, preset setting, cruise, track setting, linear scan, idle op., IR light, Privacy Mask, 3D Position, etc.

• Voice intercom: Connect sound pick-up device on the audio input port and active loud speaker on the audio output port, then click

the talkback icon. Turn on the voice intercom switch and the icon shows as **set intercom**, the talkback between PC and Network High Speed Dome can be performed. Audio input setting as default mode.

- Capture: click button, snap the current image and save it in .JPG format automatically to the storage directory of snapped images. The default path is C:\Program Files\PREVIEW, and the storage path is changeable.
- Full Screen: press button or click right mouse button to live preview in full screen, press the Esc key or remove clip to exit full screen
- Record: ON/ OFF selectable. When select ON, the icon turn blue as ., and device do video recording and saved in the appointed files as AVI format
- Event Type: Warns light flashing when camera device inform alarm. Support kinds of alarms record, and setup or remove the alarm setting, clear the alarm information.
- Zoom-in: Use the mouse to do local zoom for the video display area by scrolling the mouse wheel.
- PTZ control: Up/ down/ left/ right/ auto/ adjust the PTZ rotate speed, etc. as shown in the follow figure 3-8.
- Lens control: Do scaling, focus, iris operation, as shown in the follow figure 3-8.
- Brightness: The brightness of graphics can be adjusted, but it can only change the brightness what the current previewed graphics displayed, and it won't be effective in the video, as shown as in the figure 3-9.
- **Contrast:** The contrast ratio of graphics can be adjusted, but it can only change contrast ratio of what the current previewed graphics displayed, and it won't be effective in the video, as shown as in the figure 3-9.
- Cyclotron arrow: Restore the default parameters of brightness and contrast. as shown in the follow figure 3-9.
- **PTZ setting:** preset setting, cruise, track setting, linear scan, idle ope, IR light, Privacy Mask, 3D Position, as shown in the follow figure 3-10.

Preset setting: Adjust the camera to the appointed angle and location through directional buttons, and then select a preset number on the preset drop down list, click for to set it. Call preset: Select a preset number which needed to call on the preset drop down list, then click Et to call it. Cruise: 0-255 presets addable, stay time 1-255s adjustable, cruise speed 1-7 levels selectable. All cruise tracking can be call and delete independently.Clear cruise: Click 🖄 to clear all cruise scan setting, Call cruise: Click 🖆 to call the cruise scan which has been set Track setting: Select a number at the tracking drop down list, click . , and do a serious PTZ operation, then click to save and exit the tracking path setting. Call tracking path: Select a number at the tracking drop down list, to call tracking path click Linear Scan: Select a number at the linear drop down list, click to set the linear scan initial position, and do a serious PTZ operation, then click Exit to save and exit the linear scan setting. Linear scan only supported horizontal scan, and the vertical angle depend on the final position, linear path is two point minimum path. Call linear: Select a number at the linear drop down list, click to call linear scan ø Idle op.: Idle op. include None, preset setting, cruise scan, tracking, linear scan. Click to set idle ope, and the idle time is 1-15 min selectable, click Save to save the idle op. setting, click it to verify whether the idle ope setting completed. When set idle ope successfully, speed dome camera will do idle ope operation after the idle time that has been set IR light: Auto/ Manual selectable, when select Auto, it will turn on the IR led according to the zoom module multiples. When select Manual, there All close/ near open/ middle open/ far open totally four kind of choices to set the masking area, then click Privacy Mask: Select a number at the Mask drop down list, click

3D Position: 3D position function can be opened or closed

save and exit the masking setting

- Show smart detection rule: choose whether to display intelligent detection types (total four types: Target Count, Object Left/Lost, Area Detection, Line Crossing).
- Show smart detection result: choose whether to display intelligent detection statistical result.



Figure 3-8



Figure 3-9

Preset Cruise	0 🔻		1) 12 12 13	€
Track	1 -			
Linear	1 💌	Þ	⇔	
Scan				
Idle op.	None	•	<i>(</i>) =	⇒
IR light	Aut 🔻	Alle	losed	.
1000	7 ten	_		~
Privacy	1 💌	Off	-	
Mask				
3D	Off 🔫			
Position				
Figure 3-10				
Show Smart Detection Rule				
Show Smart Detection Result				

Figure 3-11

Playback

Playback interface as shown in the follow figure.Click the icon **Search**, next select the date time of the calling video in need, then click the icon **Search**, the record video will search automatically.

NETWORK CAM	RA	Playback File	Setup	og 🔷 Alarm 🛢	💄 admin Logout
Ch ■-■Dev_1 └ ■ ₽ch01					2018-07-21 Image: Second state st
					Search
	0000 0100 0200 0500 0400 0500 060		113.00 114.00 115.00 116.00 117.00 118.00 ☑ Show Smart Detection	13:00 120:00 121:00 122:00 123:00 Normal Speed	

Figure 3-12

- D Start: Start the current playback
- D Stop: Stop the current playback

- Slow: Slow down the playback speed(1/2, 1/4, 1/8, 1/16 times optional)
- Fast: Speed up the playback speed(2, 4, 8, 16 times optional)
- Snapshot: Can be snapshot in playback channel
- Backup: Can be backup video in playback channel
- Erame Play: Single frame to play
- Eull Screen: Playback video will display with full screen
- Show smart detection: when the video is to intelligent detect video, it can display intelligent Detection rules and statistical result.
- Solution Voice: Adjust the volume of playback audio

(Note: device should support TF card storage to enable this function)

File management

Network High Speed Dome"File management" setting interface as shown in the follow figure. Note: The inserted TF card is for full function display interface, otherwise, it's for simple type interface.

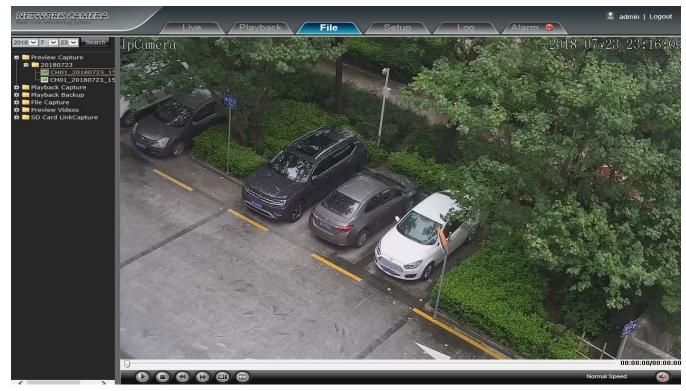
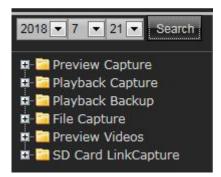


Figure 3-13

• Search: Input the concrete time, and click the Search button, the lower part displays searched images and videos (double click to display files)



- Preview Capture: To review video record preview capture files, search and double click the image files directly
- Playback Capture: To review video record playback capture files, search and double click the image files directly.

- Playback Backup: To review playback video files, search and double click the video files directly.
- File Capture: To review capture files in file management, search and double click the image files directly.
- Preview Videos: To review preview interface video record files, search and double click the video files directly.
- SD Card Link Capture: To review SD Card Link Capture files, search and double click the video files directly.
- Backup Video Play:
 - Start: Click We button to play the backup video image file
 - Stop: Click Dutton to stop the the play
 - Slow: Click button to slow play the backup video image file
 - Fast: Click without to fast play the backup video image file
 - Frame: Click with button to play the backup video image file by frame
 - **Capture:** Click button to snap the backup video image during display
 - Voice: Click witten to select turn on/off the voice during backup video image display

System specification setting

Note: The inserted TF card is for full function display interface, otherwise, it's for simple type interface.

Device Information

Network High Speed Dome"Device Information" interface as shown in the follow figure:

NETWORK CAMERA	Live Playback File Setup Log Alarm 🖲	💄 admin Logout
Device Information QR Code PTZ Settings		
Time Settings	Device Information	
Audio Settings		
Display Settings	Device Type: [26]	
Streams	Serial No: 028001/23740/ect488/05	
ROI Settings	Firmware Version: V4.0.20130523	
Camera Set	Hardware Version: 1/4,0	
Motion Detection	Formst: NTSC 30/ps	
Video Tampering	E Save	
Target Count		
Object Left/Lost		
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management		

Figure 3-14

- Device Name: Edit the camera name
- Device Type: Display the device type
- Serial No. : Display the product serial No.
- Firmware Version: Display the software version date(Note: Based on the version information which displayed in factory product)
- Hardware Version: Display the hardware version number
- Format: Switch to select the PAL and NTSC image scanning system

QR code

The display interface of QR code of IP Camera is shown as below, iphone users use the "RichScan" browser to scan IOS APP QR code to turn to Fseye downloading interface, Android mobile users use the "RichScan" of browser to scan the Android APP QR code to turn to Fseye downloading interface.Use Fseye mobile client can directly scan the Device ID QR code to login.

(Note: The Device ID QR icon will display only after the opening the corresponding agreement in platform management interface, and it supports QR code at present: Fseye, Fseye is corresponding to Fseye client in platform management interface)



Figure 3-15

PTZ Settings

Network High Speed Dome"PTZ Settings" interface as shown in the follow figure.

NETWORK CAMERA Real-Time Monitoring System	Live Playback File Setup Log Alarm 🔒	💄 admin Logout
Device Information		
QR Code		
PTZ Settings		
Time Settings		
Audio Settings		
Display Settings	PTZ Settings	
Streams	Protocol: pelcoD	
ROI Settings	Address:	
Camera Set	Baud Rate: 11/5200	
Motion Detection	Save	
Video Tampering		
Target Count		
Object Left/Lost		
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings	-	
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management		

Figure 3-16

- Protocol: Support pelcoD and pelcoP protocol
- Address: 1-255 adjustable, default is 1
- Baud Rate: Baud rate 115200 supported only

After all parameters setting completed, click "Save" and then it comes into effect immediately.

Time Settings

Network High Speed Dome "Time Settings" interface as shown in the follow figure.

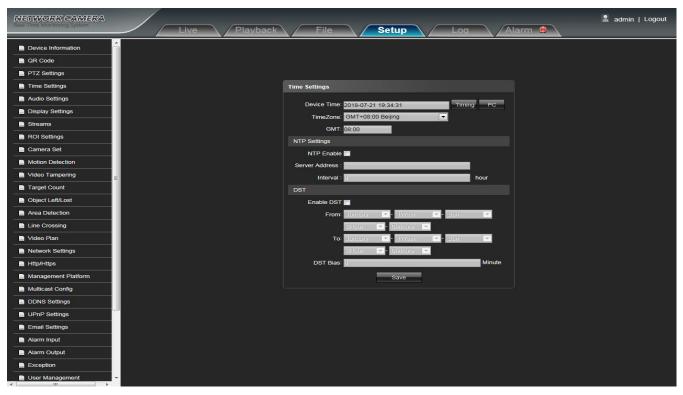


Figure 3-17

- Device Time: Set and display the device current time
- Time Zoom: Different area time format selectable
- GMT: Adjust the time more exact
- NTP Enable: Click to determine whether to use NTP
- Server Address: Input NTP server IP address
- Interval: Input the interval time
- Enable DST: Can choose to enable or close the DST function, If in the implementation of daylight saving time region, just click Enable DST 🔽 the enable daylight saving time
- From: Set begin DST time
- To: Set end DST time
- DST Bias: Set DST offset time

Audio Settings

Network High Speed Dome "Audio Settings" interface as shown in the follow figure.

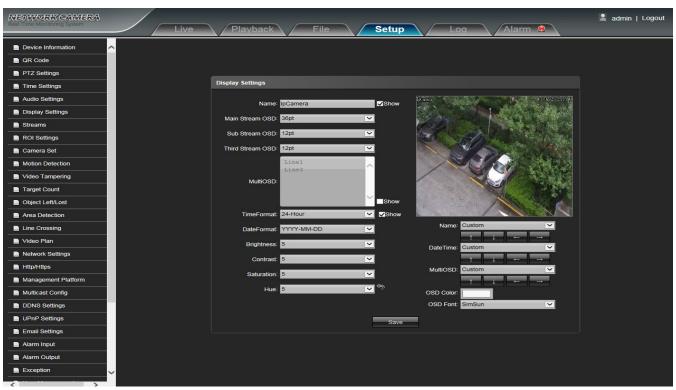
NETWORK CAMERA	Live Playback File Setup Log Alarm 🤤	💄 admin Logout
Device Information		
QR Code		
PTZ Settings		
Time Settings	Audio Settings	
Audio Settings	Audio Source: Line In	
Display Settings	Input Volume: 50	
Streams	Output Volume: 50 (0~100)	
ROI Settings	Save	
Camera Set	Save	
Motion Detection		
Video Tampering	=	
Target Count		
Object Left/Lost		
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management	-	

Figure 3-18

- Audio Source: Select the audio input mode, LineIn or MicIn selectable
- Input Volume: Set the size of the input volume, the range of volume:0-100, default is 50
- Output Volume: Set the size of the output volume, the range of volume:0-100, default is 50

Display settings

Network High Speed Dome"Display settings" interface as shown in the follow figure.





- Name: Modify the appointed channel name
- Main Stream OSD: Modify the appointed channel font of main stream OSD
- Sub Stream OSD: Modify the appointed channel font of sub stream OSD
- Third Stream OSD: Modify the appointed channel font of Third stream OSD
- Multi OSD:Add multi user-defined OSD, it can be selected Show or not
- Time Format: Select different time display mode for the appointed channel
- Date Format: Select different date display mode for the appointed channel
- Bright: Adjust the brightness for the appointed channel
- Contrast: Adjust the contrast for the appointed channel
- Saturation: Adjust the saturation for the appointed channel
- Hue: Adjust the hue for the appointed channel
- Cyclotron Arrow: Restore the default parameters(Only for Bright, Contrast, Saturation and Hue)
- Name: Set the channel title location for the appointed channel
- Date Time: Set the channel date location for the appointed channel
- Multi OSD: Multi-line OSD characters can be set up the corresponding location
- OSD Color: Can set the color of the OSD font
- OSD Font: Optional OSD font

Streams

Network High Speed Dome"Streams" setting interface as shown in the follow figure.

Real-Time Monitoring System	Live Playback File Setup Log Alarm 🖲	💄 admin Logout
Device Information QR Code PTZ Settings		
Time Settings	Streams	
Audio Settings	Stream Type: Main Stream	
Display Settings		
Streams	Video Stream: Video&Audio	
ROI Settings	Resolution: 1080P(1920*1080)	
Camera Set		
Motion Detection	Frame Rate: Full Frame	
Video Tampering	Video Encode: H264	
Target Count	Encode level: HighProfile	
Object Left/Lost		
Area Detection	I Frame Interval: 25	
Line Crossing	Bilrate Type: Constant	
📄 Video Plan		
Network Settings	Bitrate: 4 Mbps	
Http/Https	Save	
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		

Figure 3-20

- Compress type: Primary Stream(Normal)/ Sub Stream/Third Stream selectable
- Stream: Including complex stream/ video stream two types
- Resolution: The camera supports several resolution, will display here
- Frame Rate: Select different frame rate in the drop-down list, default is Full Frame
- Video Encode: H.264/H.265/MJPEG three kinds of video encode format
- H264 Profile: There are MainProfile/ Baseline/ HighProfile three types optional
- I frame Interval: Set the I frame interval size
- Bitrate Type: Constant/ Variable selectable
- Bitrate: Set different bitrate for different channels

ROI Settings

IP Camera ROI Settings setting interface as shown in the follow figure:

NETWORK CAMERA	/ Playback / File Setup Log / Alarm 🖲	💄 admin Logout
Device Information		
QR Code		
PTZ Settings		
Time Settings	ROI Settings	
Audio Settings	Marrie Carlos Ca	
Display Settings	Area1: Enable: Level: 1	
Streams	Area2: Enable: Level: 1	
ROI Settings		
Camera Set	Area3: Enable: Level: 1	
Motion Detection		
Video Tampering	Area4: Enable: Level: 1	
Target Count	Clear	
Object Left/Lost	Save	
Area Detection	Save	
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception 🗸		
<hr/>		

Figure 3-21

• **ROI Setting:** On the preview window, hold down the left mouse button and drag to set the ROI area. A total of four ROI areas can be set, click **Enable:** to set the corresponding ROI region coding level, the higher the level of coding, the stronger the ROI region encoding

After all parameters setting completed, click "Save" and then it comes into effect immediately.

Camera set

Network High Speed Dome"Camera set" setting interface as shown in the follow figure.

RETWORK CAMERA Real-Time Montoring System	Live Playback File Setup Log Alarm &	💄 admin Logout
Device Information		
QR Code	Camera Set	
PTZ Settings	Model: FS6203	
Time Settings	Exposure Control	
Audio Settings	Exposure Mode: Full-automatic V Efforts 2019/13312-301	
Display Settings	AGC: High	
Streams	Shutter: 1/5	
ROI Settings	Picture	
Camera Set	Color-Mode: Normal	
Motion Detection	WB Mode: Auto WB	
Video Tampering	Mirror: Nomal	
Target Count	Advanced Settings	
Object Left/Lost	Backlight Mode: Off	
Area Detection	Intensity: Low	
Line Crossing	Compensation:	
Video Plan	DNR Mode: Mid ZoomSpeed: High 🔽	
Network Settings	OSD Display Anti-Shake: Off 🔽	
Http/Https	ZoomRate: Hide 🔽 Slow Shutter: Off	
Management Platform	Coordinate: Hide V Defogging: Off	
Multicast Config	Status: Hide V Day-Night Mode: Auto	
DDNS Settings	Save	
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
< > > *		

Figure 3-22

- Exposure Mode: Exposure mode include Full-automatic/ Shutter Priority/ Anti-Flicker, default is Full-automatic. When select Fullautomatic or Anti-Flicker, the shuttle value can not be set, and when select Shutter Priority, the shuttle value can be set.
- AGC: Low/ Mid/ High selectable, default is High. The bigger of the gain value, the higher of the low illumination sensitivity, and the more obvious of noisy point
- Shutter:1/5~1/10000, the smaller of the shutter value, the darker of the brightness
- Color-Mode: Normal/ Bright/ Nature selectable, default is Normal
- WB Mode: Auto WB/ Inside/ Outside selectable, select different white balance mode according to different scenes, default is Auto WB
- Mirror: Normal/ Horizontal Mirror/ Vertical Mirror/ 180 rotation selectable, default is Normal
- Backlight Mode: Off/ WDR/Highlight Correction/Backlight correction selectable, default is Off
- Intensity: Low/ Mid/ High selectable. It is invalid when Backlight mode set Off
- Dark Compensation: Off/On selectable, default is Off
- DNR Mode: Off/ Low/ Mid/High selectable, default is Mid
- Zoom Rate: Show/ Hide selectable, set the zoom rate and view the corresponding effect on the screen interface
- Coordinate: Show/ Hide selectable, set the zoom rate and view the corresponding effect on the screen interface
- Status: Show/ Hide selectable, set the zoom rate and view the corresponding effect on the screen interface
- Zoom Speed: Low/ Mid/ High selectable, default is High
- Anti-Shake:Off On selectable, default is Off
- Slow Shutter: Off/ On selectable, default is Off
- Defogging:Off/ On selectable, default is Off
- Day-Night Mode: Auto/ Color/ Black White three kinds of mode selectable, default is Auto, According to the actual scene to select the Day&Night mode

After all parameters setting completed, click "Save" and then it comes into effect immediately.

Motion Detection

Network High Speed Dome"Motion Detection" setting interface as shown in the follow figure.

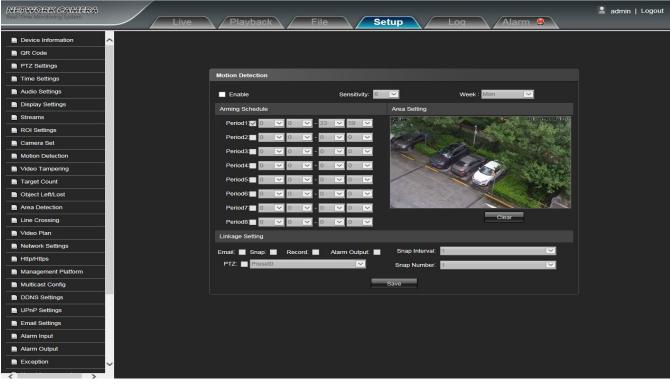


Figure 3-23

- Enable: Select whether open the motion detection function.
- Sensitivity: The higher of the sensitivity, the obvious of the motion detective.
- Week: The protection time can be set up from Monday to Sunday.
- Arming Schedule: Can set up protection period of time, one day can set up 8 time quantum.
- Area Setting: Press and drag the left mouse button in the Area Setting preview interface, then draw the small check optional to set the detective areas
- Clear: Click Clear to clear the current detective areas.
- Email: Send Email to appointed mailbox when alarm triggered.

- Snap: Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card.
- Record: Click Record.Once alarm triggers that it will linkage camera to record video and restore it in the TF card.
- Alarm Output: There is a warner connect the alarm output port, alarm triggered the embedded relay switch to make alarm output.
- **PTZ:** Enable or disable PTZ function
- Preset: When motion detection triggers alarm, it will linkage the presets
- Snap Interval: Set the snapshot interval time
- Snap Number: Set the snapshot image count for every time

After all parameters setting completed, click "Save" and then it comes into effect immediately.

Video Tampering

Network High Speed Dome"Video Tampering" setting interface as shown in the follow figure.

NETWORK CAMERA	/				🙎 admin Logout
Real-Time Monitoring System	Live	Playback File	Setup	Log Alarm 🔒	
Device Information	^				
QR Code					
PTZ Settings					
Time Settings		Video Tampering			
Audio Settings		Enable	Sensitivity: 1	Week Mon	
Display Settings		Arming Schedule	Area Setting		
Streams		Period1 👽 0 🔍 - 23		Pds-745 stds-7	
ROI Settings		Period2 0 - 0			
Camera Set					
Motion Detection		Period3: 0 🗸 0 🗹 - 0			
Video Tampering		Period4:			
Target Count		Period5 0 🔽 0 🔽 - 0			
Object Left/Lost		Period6: 0 🗸 0 🗸 - 0			
Area Detection		Period7 🔲 0 🗹 0 🗹 - 0			
Line Crossing		Period8 0 🔽 0 🔽 - 0	Clear		
Video Plan		Linkage Setting			
Network Settings		Email: Snap: Record:	Alarm Output: Snap Inter	rval: 1	
Http/Https		PTZ: Preset0	Snap Numt	ber: 1	
Management Platform					
Multicast Config			Save		
DDNS Settings					
UPnP Settings					
Email Settings					
Alarm Input					
Alarm Output					
Exception	~				
< >					



- Enable: Set whether open the video tempering
- Sensitivity: The higher the sensitivity, the more easier to trigger the video block alarm
- Week: The protection time can be set up from Monday to Sunday.
- Arming Schedule: Can set up protection period of time, one day can set up 8 time quantum.
- Area Setting: Press and drag the left mouse button in the Mask Set preview interface, then draw the small check optional to set the detective areas
- Clear: Click Clear to clear the current detective areas.
- Email: Send Email to appointed mailbox when alarm triggered.
- Snap: Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card.
- Record: Click Record.Once alarm triggers that it will linkage camera to record video and restore it in the TF card.
- Alarm Output: There is a warner connect the alarm output port, alarm triggered the embedded relay switch to make alarm output.
- **PTZ:** Enable or disable PTZ function
- Preset: When motion detection triggers alarm, it will linkage the presets
- Snap Interval: Set the snapshot interval time
- Snap Number: Set the snapshot image count for every time

Target Count

Network High Speed Dome Target Count setting interface as shown in the follow figure.

Real-Time Monitoring System Live	Playback File	Setup Log Alarm 😣	💄 admin Logout
Device Information QR Code QR Code	Target Count		-
PTZ Settings	Enable		
Time Settings	Arming Schedule	Area Setting	
Audio Settings	Mon: 🗸 0 💙 0 💙 - 23 🌱 59 💙	parente 2018 - 1947 Martin State	
Display Settings	Tue: 👽 0 🔍 0 🔍 - 23 🔍 59 💌		
Streams	Wed: V 0 V 0 V - 23 V 59 V		
ROI Settings	Thu 0 0 0 - 23 0 59 V		
Camera Set			
Motion Detection	Frit 🗸 0 💙 0 💙 - 23 💙 59 💙		
Video Tampering	Sat 🗸 0 🔽 0 🔽 - 23 🔽 59 🔽		
Target Count	Suni 🗸 0 💙 0 💙 - 23 🌱 59 💙		
Object Left/Lost		Drawing Clear Swap AB	
Area Detection	Setup Test line:		
Line Crossing	Test line: 1	B->A: Increase Count Decrease Count Olgnore	
Video Plan	Flow Count: Enable	BPA. Chincrease Count Checrease Count Chenore	
Network Settings	Interval:		
Http/Https	Threshold:		
Management Platform	Total Count: Enable		
Multicast Config	Time : 0 🔽 0 🔽 - 0 🔽 0		
DDNS Settings	Alarm Threshold:		
UPnP Settings	Target Percent : 0 (0-10000)		
Email Settings	Linkage Setting		
Alarm Input	Email: 🔳 Snap: 🔳 Record: 🔲 Alarm Output: 🔳	Snap Interval: 1	
Alarm Output	P1Z: Preset0	Snap Number: 1	
Exception		Save	

Figure 3-25

- Enable: Enable or disable the target counting function
- Arming Schedule: Arm schedule can be set from Monday to Sunday
- Area Setting: In preview interface of "Area Setting", click "drawing", then click the left mouse button to set detection line, then rightclick to complete, the target will be counted when going through the line.
- Clear: Click Clear to delete all the test lines
- Swap AB: Click "swap AB" to exchange position between A and B.
- Test Line: To add new test lines (support max. 4 test lines), or set the parameter setting for the corresponding test line optional
- Statistics: Set the test lines for targets passing through, there are A→B and B→A two statistical methods.
- Flow Counter: Enable or disable the Flow Counter function
- Interval: Set the counting time interval, when it is more than the time interval, the flow counter will reset and enter into next counting period automatically
- Threshold: Set the upper limit value for counting, when it is more than the setting value, it will trigger alarm function automatically
- Total Counter: Enable or disable the Total Counter function
- Time: Set the effective time period for the day's total counter
- Alarm Threshold: Set the upper limit value for the day's total flow, when it is more than the setting value, it will trigger alarm function automatically
- Target Percent: Set the min. area percent for the effective counting targets, once the area of targets passing through the test line are smaller than the setting value, it will be invalid without be counted
- Email: Click Email. Once alarm triggers that it will send Email to appointed mailbox
- Snap: Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- Record: Click Record. Once alarm triggers that it will linkage camera to record video and store it in the TF card.
- Alarm Output: There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- PTZ: Enable or disable PTZ function
- Preset: When target counting triggers alarm, it will linkage the presets
- Snap Interval: Set the snapshot interval time
- Snap Number: Set the snapshot image count for every time

Object Left/Lost

Network High Speed Dome Object Left/Lost setting interface as shown in the follow figure.

Real-Time Monitoring System	Live Playback File Setup Log Alarm 😣
Device Information	
QR Code	
PTZ Settings	
Time Settings	Object Left/Lost
Audio Settings	🗹 Enable
Display Settings	Arming Schedule Area Setting
Streams	
ROI Settings	
Camera Set	Tue: V 0 V - 23 V 59 V
Motion Detection	Wed ♥ 0 ♥ 0 ♥ - 23 ♥ 59 ♥
Video Tampering	
Target Count	Fri 🔽 0 🔍 0 💟 - 23 💟 59 💟
Object Left/Lost	Sat 🔽 0 🔍 0 🔍 - 23 🔍 59 🗸
Area Detection	Sun 🔽 0 🔍 • 23 💟 59 💟
Line Crossing	Drawing Clear
Video Plan	Setup
Network Settings	Detect Area: 1 💟 Detect type : Object Loss V Object Percent: 0 (0-10000) Time : 0 (6)
Http/Https	Linkage Setting
Management Platform	Email: Snap: Record: Alarm Output: Snap Interval: 1
Multicast Config	PTZ: Presel0 Snap Number: 1
DDNS Settings	Save
UPnP Settings	
Email Settings	
Alarm Input	
Alarm Output	
Exception	

Figure 3-26

- Enable: Enable or disable the object detection function
- Arming Schedule: Can be set the arm schedule from Monday to Sunday
- Area Setting: In preview interface of "Area Setting", click "drawing", then click the left mouse button to set detection area, then right-click to complete, items in the area will be monitored and detected
- Clear: Click Clear to delete all the detect zones.
- Detect Area: To add new detect zone (support max. 4 detect zones), can be set the parameter setting for the corresponding detect zone optional
- Detect Type: Set the object detection type, there are three detection types, both of them will trigger alarm. Item lost refers to once the object lost in the detect zone, the camera will trigger alarm, Item left refers to once the new added object detected in the detect zone, the camera will trigger alarm. Item lost or left refers to both of object lost and adding, the camera will trigger alarm.
- **Object Percent:** Set the min. area percent for the object, the area of object is smaller than the setting value, it will be invalid
- **Time**: Set the upper limit value for the item lost and item left, when it is more than the setting value, it will trigger alarm function automatically
- Email: Click Email. Once alarm triggers that it will send Email to appointed mailbox
- Snap: Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- Record: Click Record. Once alarm triggers that it will linkage camera to record video and store it in the TF card.
- Alarm Output: There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- PTZ: Enable or disable PTZ function
- Preset: When object detection triggers alarm, it will linkage the presets
- Snap Interval: Set the snapshot interval time
- Snap Number: Set the snapshot image count for every time

Area Detection

Network High Speed Dome Area Detection setting interface as shown in the follow figure.

NETWORK CAMERA Real-Time Monitoring System	Live Playback File Setup Log Alarm @
Device Information	
QR Code	
PTZ Settings	
Time Settings	Area Detection
Audio Settings	2 Enable
Display Settings	Arming Schedule Area Setting
Streams	
ROI Settings	
Camera Set	
Motion Detection	Wed: ✓ 0 ✓ - 23 ✓ 59 ✓
Video Tampering	Thu: 🗹 0 🔽 - 23 💟 59 🔽
Target Count	Fat 🗹 0 🔽 0 🔽 - 23 💟 59 🗹
Object Left/Lost	Sat 🗸 0 🗸 0 🗸 - 23 🗸 59 🗸
Area Detection	Sun 🔽 0 🔍 0 🔍 - 23 🔍 59 💟
Line Crossing	Drawing Clear
Video Plan	Setup
Network Settings	Detect Area: 1 🔽 Detect type : Target Entr V Object Percent: 0 (0-10000) Time : 0 (s)
Http/Https	Linkage Setting
Management Platform	Email: Snap: Record: Alarm Output: Snap Interval: 1
Multicast Config	PTZ Preset0 Snap Number 1
DDNS Settings	Save
UPnP Settings	
Email Settings	
Alarm Input	
Alarm Output	
Exception V	
<	

Figure 3-27

- Enable: Enable or disable the area detection function
- Arming Schedule: Can be set the arm schedule from Monday to Sunday
- Area Setting: In preview interface of "Area Setting", click "drawing", then click the left mouse button to set detection area, then right-click to complete, items in the area will be monitored and detected
- Clear: Click Clear to delete all the detect zones.
- Detect Area: To add new detect zone (support max 4 detect zones), can be set the parameter setting for the corresponding detect zone optional
- Detect Type: Set the target detect type, there are four detect types, all of them will trigger alarm. Target enter refers to once the target enter into the detect zone, the camera will trigger alarm, Target leave refers to the target go out the detect zone, the camera will trigger alarm, Target enter or leave refers to both of them happen, the camera will trigger alarm. When the staying time of target wander target entering into detection area exceeds the upper limit of setting time, it will trigger the alarm
- Object Percent: Set the min. area percent for the object, the area of object is smaller than the setting value, it will be invalid
- Time: When the staying time of the set target entering into detection area exceeds the upper limit of setting time, it will trigger the alarm
- Email: Click Email. Once alarm triggers that it will send email to appointed mailbox
- Snap: Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- Record: Click Record. Once alarm triggers that it will linkage camera to record video and store it in the TF card.
- Alarm Output: There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- PTZ: Enable or disable PTZ function
- Preset: When area detection triggers alarm, it will linkage the presets
- Snap Interval: Set the snapshot interval time
- Snap Number: Set the snapshot image count for every time

Line Crossing

Network High Speed Dome Line Crossing setting interface as shown in the follow figure.

Real-Time Monitoring System	Playback File S	etup Log Alarm 🕏	🙎 admin Logout
Device Information QR Code			
PTZ Settings	Line Crossing		
Audio Settings	Z Enable		
Display Settings	Arming Schedule	Area Setting	
Streams	Mon: 🗸 0 💙 0 💙 - 23 💙 59 💙	States Address Addre	
ROI Settings	Tue: 🔽 0 🔽 0 🔽 - 23 🔽 59 🔽		
Camera Set	Wed: V 0 V 0 V - 23 V 59 V		
Motion Detection	Thu: 🗸 0 💙 0 💙 - 23 💙 59 💙		
Video Tampering			
Target Count			
Object Left/Lost	Sati 🗸 0 💉 0 💌 - 23 🔽 59 💌		
Area Detection	Sun: 🗸 0 🔽 0 🔽 - 23 🔽 59 💙	Drawing Clear Swap AB	
Line Crossing		Drawing Clear Swap AB	
Video Plan	Setup Detect Area: 1 Detect type: A->B Alarm	Object Percent: 0 (0-10000)	
Network Settings	Linkage Setting		
Http/Https			
Management Platform	Email: Snap: Record: Alarm Output:	Snap Interval: 1	
Multicast Config	PTZ: Preset0	Snap Number: 1	
DDNS Settings	_	Save	
UPnP Settings			
Email Settings			
Alarm Input			
Alarm Output			
Exception			

Figure 3-28

- Enable: Enable or disable the virtual guard function
- Arming Schedule: Can be set the arm schedule from Monday to Sunday
- Area Setting: In preview interface of "Area Setting", click "drawing", then click the left mouse button to set warning line, then rightclick to complete, the target will trigger the alarm when going through the line
- Clear: Click Clear to delete all the detect zones.
- Swap AB: Click "swap AB" to exchange position between A and B
- Detect Area: To add new guard line (support max. 4 guard lines), can be set the parameter setting for the corresponding guard lines optional
- Detect Type: Set the guard lines to trigger alarm. A→B refers to the targets pass through the guard line from A area to B area and trigger alarm. A←→B refers to the targets pass through the guard line from A area to B area or from B area to A area, both of them will trigger alarm.
- **Object Percent:** Set the min. area percent for the object, the area of target passing through the guard line is smaller than the setting value, it will be invalid without triggering alarm
- Email: Click Email. Once alarm triggers that it will send Email to appointed mailbox
- Snap: Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- Record: Click Record. Once alarm triggers that it will linkage camera to record video and store it in the TF card.
- Alarm Output: There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- PTZ: Enable or disable PTZ function
- Preset: When virtual guard triggers alarm, it will linkage the presets
- Snap Interval: Set the snapshot interval time
- Snap Number: Set the snapshot image count for every time

Video Plan

IP Camera Video Plan setting interface as shown in the follow figure:

NETWORK CAMERA Real-Time Monitoring System	Live Playback File Setup Log Alarm 🔒	💄 admin Logout
Device Information GR Code Time Settings Autor Settings	Video Plan	
Audio Settings Display Settings Streams ROI Settings	Video Mode: Time recording + Alarm recording - Video Mode: Time recording + Alarm recording - Video Mode: Time recording + Alarm recording - Alarm recording	
Camera Set Motion Detection Video Tampering Target Count	Wed	
Cbject Left/Lost Area Detection Line Crossing Video Plan Network Settings	Sun Pre Record: 10S Post Record: 11min Video Edge IP Address: 0.0.0	
Http/Https Management Platform	Tips: Support 8 periods at most a day! Save	
Multicast Config DDNS Settings UPnP Settings Email Settings		
Alarm Input Alarm Output Exception User Management		



- Video Mode: Select the video mode, there are Time recording + Alarm recording, Time recording, Alarm recording, No video four modes optional
- Week: You can set the recording time from Monday to Sunday
- Pre Record: Pre-recording time can be set
- Post Record: You can set the recording delay time
- Video Edge IP Address: enter the IP of NVR or server

After complete all parameters setting, click Save, the settings will take effect immediately.

Network Settings

Network High Speed Dome"Network Settings" interface as shown in the follow figure.





- IPV4: IP protocol version No. is 4
- Static IP: The device IP address is permanent
- DHCP: Click DHCP, when turn on the router's DHCP, the camera will get the IP address from router automatically
- IP address: Input the corresponding numbers to change the IP address
- Subnet Mask: Input the corresponding IP subnet mask
- Default Gateway: Input the corresponding gateway address
- DNS 1: DNS server address
- DNS 2: DNS server standby address
- RTSP Port: Use domain name to access and login device need mapping RTSP, default port is 554
- RTSP Validation: Choose RTSP verification mode, Http-Base64, Http-Digest selectable. After clicking to check and enable the
 corresponding RTSP verification mode, When playing RTSP real-time stream, it needs to verify the user name and password
- RTMP Port: Use domain name to access and login device need mapping RTMP, default port is 1935
- Enable PPPoe: Click to enable PPPOE
 - User Name: Input the user name
 - Password: Input the password
 - Confirm pwd: Input the password again to confirm it
 - PPPoe IP: Input device dynamic address

Http/Https

Network High Speed Dome"Http/Https" interface as shown in the follow figure.

NETWORK CAMERA	Live Playback File Setup Log Alarm 8	💄 admin Logout
Device Information		
QR Code		
PTZ Settings		
Time Settings	Http://tttps	
Audio Settings	Http	
Display Settings	Enable: 🔽	
Streams	Port: 80	
ROI Settings	Https	
Camera Set	Enable:	
Motion Detection	Port: 443	
Video Tampering	Save	
Target Count		
Object Left/Lost		
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management		



- Enable: Select whether to enable the http/https
- HTTP Port: Input the corresponding port (Default is 80)
- HTTPS Port: Input the corresponding port (Default is 443)

After all parameters setting completed, click "Save" and then it comes into effect immediately.

Management Platform

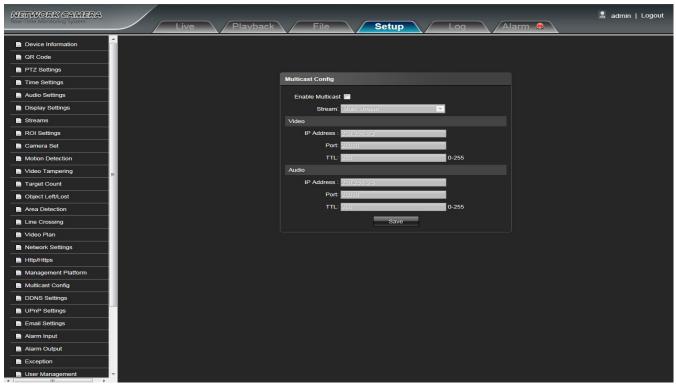
Network High Speed Dome "Management Platform" interface as shown in the follow figure.

NETWORK CAMERA Real-Time Monitoring System	Live	Playback	File	Setup		larm 🔒	💄 admin Logou
Device Information							
QR Code							
PTZ Settings							
Time Settings		Managen	nent Platform				
Audio Settings		No.	Protocol	Status	Operation		
Display Settings	-	1	185	Off	Modify		
Streams	-		Fseye	On	Modify		
ROI Settings		3	GB28181	Off	Modify		
Camera Set							
Motion Detection							
Video Tampering	-						
Target Count	-						
Object Left/Lost							
Area Detection	-						
Line Crossing	-						
Video Plan							
Network Settings							
Http/Https	-						
Management Platform							
Multicast Config							
DDNS Settings							
UPnP Settings							
Email Settings							
Alarm Input							
Alarm Output							
Exception							
User Management							

User can open, close, edit, delete the protocol.

Multicast Config

Network High Speed Dome"Multicast Config"setting interface as shown in the follow figure.





Default disabling for multicast config. After click"Enable Multicast", users can set the primary stream video, primary stream audio, sub stream video, sub stream audio, third stream video, third stream audio.

DDNS Setting

DDNS is implemented through a dynamic domain resolution server. It requires a PC with fixed IP address on the Internet, on which the dynamic domain resolution server runs. Network High Speed Dome DDNS setting interface as below:

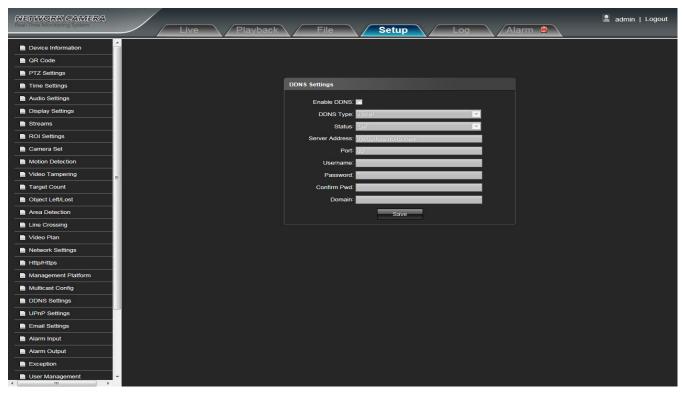


Figure 3-34

- Enable DDNS: Click to determine whether to use Dynamic Domain Name Server
- Server Type: Select DDNS server type (There are Dyndns/ PeanutHull/ NO-IP/ 3322/ DnsDynamic five types selectable)
- Status: Select on or off
- Server Address: Input server name, for example, members.3322.org
- **Port:** Input port No. (default is 80)
- User Name: Input user name
- Password: Input password
- Confirm Pwd: Input the password again to confirm it
- Domain: Input the standby domain

After all parameters setting completed, click "Save" and then it comes into effect immediately.

UPnP Settings

Network High Speed Dome"UPnP Settings" interface as shown in the follow figure.

WETWORK CAMERA wathine Worksring System Live Playback	File Setup Log Alarm @	🙎 admin Logout
Live / Haybaok		
Device Information		
QR Code		
PTZ Settings		
Time Settings	UPnP Settings	
Audio Settings	Enable UPnP:	
Display Settings	In Port Out Port Out IP Protocol Status Operation	
Streams	Add Refresh	
ROI Settings		
Camera Set		
Motion Detection		
Video Tampering		
Target Count		
Dbject Left/Lost		
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management		

Figure 3-35

- Enable UPnP: you can choose whether to turn on the UPnP function. When enabled, the device can port mapping through the router.
- Add: optional TCP/UDP protocol, set internal and external port.

Email Settings

Network High Speed Dome"Email Settings" interface as shown in the follow figure.

NETWORK CAMERA Real-Time Vontoring System	Live Plavback File Setup Log Alarm 🖲	💄 admin Logout
Device Information		
QR Code		
PTZ Settings	Email Settings	
Time Settings	Sender's Address:	
Audio Settings	Password:	
Display Settings	Confirm Pwd:	
Streams	SMTP Server:	
ROI Settings	SMTP Port: 0	
Camera Set	SSL III identity Verification	
Motion Detection	Receiver's Address:	
Video Tampering	Receiver's Address:	
Target Count	Receiver's Address:	
Object Left/Lost	Save	
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management		



- Sender's Address: Input the address of the outbox
- **Password:** Input the the password of the outbox
- **Confirm pwd:** Input the password again to confirm it
- SMTP Server: Input the smtp server address of the outbox
- **SMTP Port:** Input the smtp server port of the outbox
- SSL/Identity verification: Tick SSL and Identity verification to send the email correctly and safely
- Receiver's Address: Input the address of the inbox, fill in the address of receiving email, and can fill in 3 address of receiving email

Alarm Input

Network High Speed Dome"Alarm Input" setting interface as shown in the follow figure.

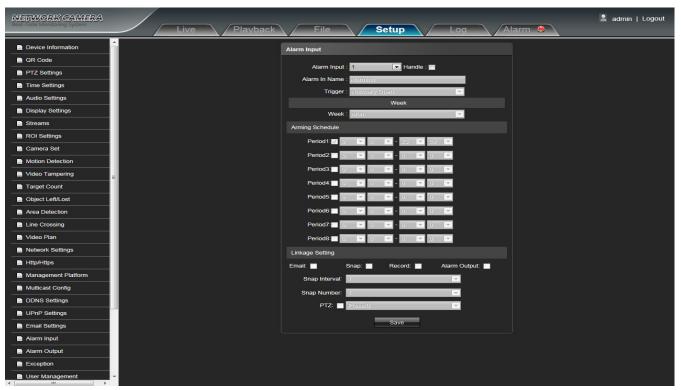


Figure 3-37

- Alarm Input: Select the alarm input number, Then click Handle : Z can implement follow parameters settings
- Alarm In Name: Input alarm input name
- Trigger: Select the alarm statue: Normal Open/ Normal Close
- Alarm Schedule: Alarm schedule can be set from Monday to Sunday
- Email: Click Email, then it will send Email to appointed mailbox when alarm triggered
- Snap: Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- Record: Click Record. Once alarm triggers that it will linkage camera to record video and restore it in the TF card
- Alarm Output: There is a warner connect the alarm output port, alarm triggered the embedded relay switch to make alarm output.
- Snap Number: Set the snapshot image count for every time
- Snap Interval: Set the snapshot interval time
- PTZ: Enable or disable PTZ function
- Preset: When alarm input triggers alarm, it will linkage the presets

After all parameters setting completed, click "Save" and then it comes into effect immediately.

Alarm Output

Network High Speed Dome"Alarm Output" setting interface as shown in the follow figure.

NETWORK CAMERA	Live Playback File Setup Log Alarm 🛢	💄 admin Logout
Device Information		
QR Code		
PTZ Settings	Alarm Output	
Time Settings	Output Relay Status: Normally Open	
Audio Settings	Output Delay- 55	
Display Settings	Save	
Streams		
ROI Settings		
Camera Set		
Motion Detection		
Video Tampering		
Target Count		
Object Left/Lost		
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management		

Figure 3-38

- Output Relay Status: Normally Open/ Normally Close selectable
- **Output Delay:** Select the alarm output time(Alarm delay output when alarm triggered) After all parameters setting completed, click "Save" and then it comes into effect immediately.

Exception

Network High Speed Dome"Exception" interface as shown in the follow figure.

NETWORK CAMERA Real-Time Monitoring System	Live Playback File Setup Log Alarm 🕷	💄 admin Logout
Device Information		
QR Code		
PTZ Settings	· · · · · · · · · · · · · · · · · · ·	
Time Settings	Exception	
Audio Settings	Exception Type : Network Disconnected	
Display Settings	vi Record vi Alarm Output	
Streams	Save	
ROI Settings		
Camera Set		
Motion Detection		
Video Tampering		
Target Count		
Object Left/Lost		
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management		

Figure 3-39

- Exception Type: Network broken/ IP address conflict/ Illegal access three exception types selectable
- **Record:** Click Record, it will do video record as any exception type triggered the alarm output
- Alarm Output: Click Alarm Out, it will linkage other alarm devices as any exception type triggered

After all parameters setting completed, click "Save" and then it comes into effect immediately.

User Management

Network High Speed Dome"User Management" setting interface as below, admin is the administrator (default), default indicates general users, boot and login with permissions authorized to default users(default).



Figure 3-40

- Modify: The admin user can modify the login password, the default guest user can modify user type. While the new added user can
 modify user name, login password and user type. Otherwise, the new added user can select None/Guest/Operator three types,
 and set the different permission assignment in the Right Permission setting
- Del: Delete the new user
- Permission: permission assignment for the default guest user and new user
- Add User: Add a new user

After all parameters setting completed, click "Save" and then it comes into effect immediately.

System Update

Network High Speed Dome"System Update" setting interface as shown in the follow figure.

NETWORK CAMERA Real-Time Monitoring System	Playback File Setup Log Alarm @	💄 admin Logout
Streams		
ROI Settings		
Camera Set		
Motion Detection	System Update	
Video Tampering		
Target Count	File: Browse	
Dbject Left/Lost	Update	
Area Detection		
Line Crossing		
Video Plan		
Network Settings		
Http/Https		
Management Platform		
Multicast Config		
DDNS Settings		
UPnP Settings		
Email Settings		
Alarm Input		
Alarm Output		
Exception		
User Management		
System Update		
Auto Reboot		
Storage Management		
Restore		
Local Settings		
Developer		

Figure 3-41

• File: Click Browse to find and select the upgrade kit, then click Update.

Non-technician should not try to operate system upgrade, do not turn off the power during upgrade process.

Auto Reboot

İ

Network High Speed Dome"Auto Reboot" setting interface as shown in the follow figure.

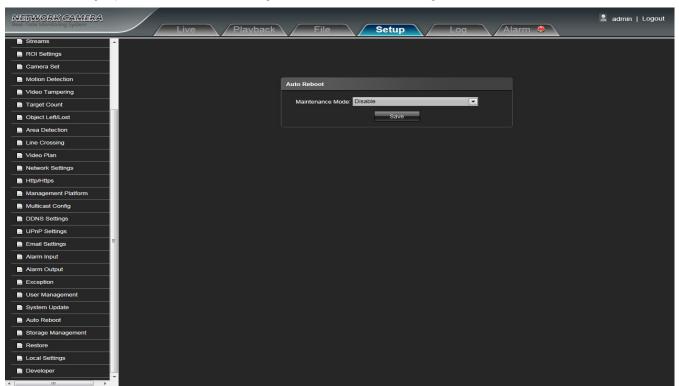


Figure 3-42

 Maintenance Mode: Default Disable, and there are Every Day/ Every Week/ Once three modes optional, then IPC will reboot as appointed mode

Storage Management

Network High Speed Dome"Storage Management" setting interface as below, you can check current TF card capacity/ spare capacity/ status, and do TF card formatting.(Note: Turn off the power supply when insert or take out the TF card)

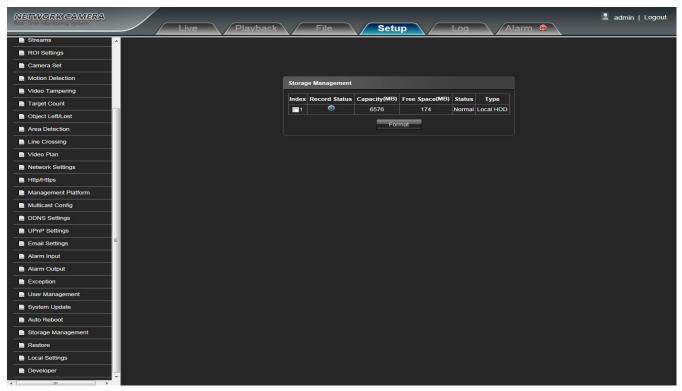


Figure 3-43

Restore

Network High Speed Dome"Restore" setting interface as shown in the follow figure.

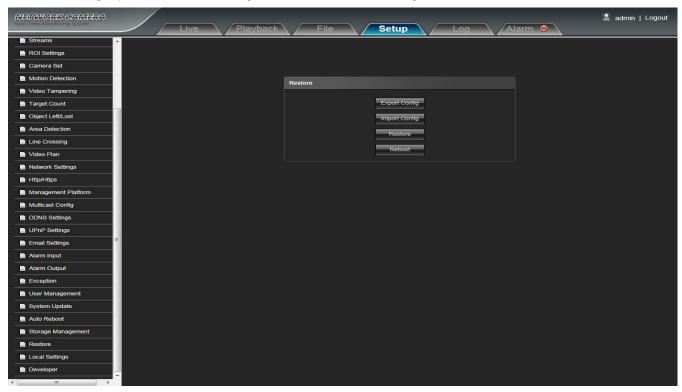


Figure 3-44

- Export Config: Export all configurations to PC or USB
- Import Config: Import selected configuration to the system
- **Restore:** Restore to factory setting
- Reboot: Reboot the devices

Local Setting

Network High Speed Dome"Local Setting" interface as shown in the follow figure.

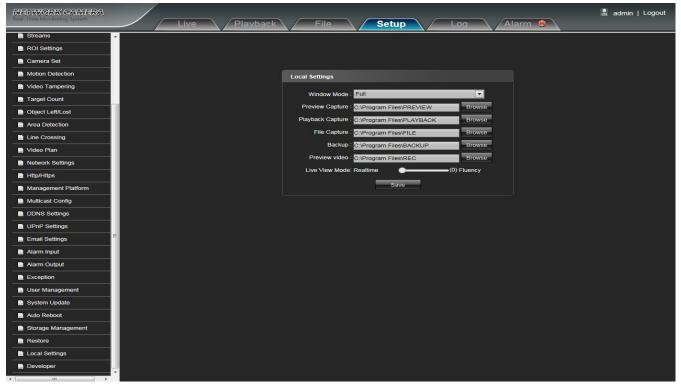


Figure 3-45

- Window Mode: Set the preview window mode(Full/ 4:3/ 16:9/Original Image optional)
- **Preview Capture:** Select the preview capture file storage path
- Playback Capture: Select and modify the video record capture file storage path
- File Capture: Select and modify the file management capture file storage path
- Back Up: Select and modify video record backup file storage path
- Preview Video: Select and modify the preview interface video record file storage path
- Live View Mode: Realtime/ Smoothway two types selectable, the value of them can be adjustable

After all parameters setting completed, click "Save" and then it comes into effect immediately.

Developer

Network High Speed Dome"Developer" interface as shown in the follow figure.

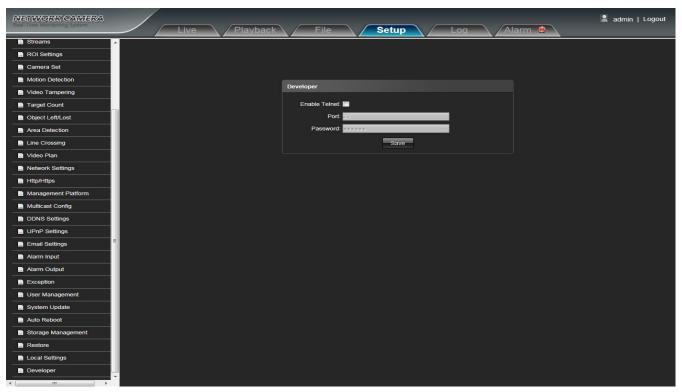


Figure 3-46

Log

Network High Speed Dome"Log" setting interface as shown in the follow figure.



- Main Type: Select the log type to check. There are All/ Alarm/ Exception Settings/ Operation / Setup optional, or click All to check all types of them
- Start Time: Set the start time
- End Time: Set the end time
- Page No.: Set the log numbers on each page
- Search: Search the corresponding logs

Alarm

Network High Speed Dome"Alarm" setting interface as shown in the follow figure.

NETWORK CAMERA Real-Time Monitoring System	Playback File Setup Lo	admin Logout
1	Alarm Information	
	Channel Event Type Start Time End Time Status	
l		

Figure 3-48

4 Appendix

SPECIFICATIONS

Image Sensor	1/2.8" CMOS	
Min. Illumination	LED on:0Lux Color:0.02Lux(F1.6 AGC ON) B/W:0.002Lux(F1.6 AGC ON)	
Effective Pixels	2MP	
Resolution	More than 1000TVL	
Optical Zoom	23X	
Digital Zoom	1X-16X	
Focus length	f=4.7~108.1mm	
Angle Field of view	55.8° (Wide) / 3.2° (Tele)	
Zoom Speed	3S(Wide-Tele)	
Focus mode	Auto/ Manual/One push	
S/N ratio	>50dB	
Image adjust	Support brightness, contrast, saturation, Hue can be adjusted through web	
White balance	Auto WB/Indoor/Outdoor	
Image mode	Standard/gorgeous/natural	
Iris control	Auto/ Manual	
Electronic Shutter	1/5~1/10,000s	
Auto slow shutter	On/Off	
Gain control	Low/Mid/High	
BLC	Off/WDR/HLC/BLC	
Dark compensation	On/Off	
HLC	On/Off	
WDR	Off, Low/Mid/High	
Day/Night	Auto/Color/ Black White	
Mirror	Normal/ Horizontal Mirror/Vertical Mirror/180° rotation	
DNR	Off/Low/Mid/High	
Defog	On/Off	
Anti Shake	On/Off	
AUDIO/VIDEO COMPRESSION		
Video Compression	H.264/MJPEG/H.265	
H.264 Encoding Type	Base Line / Main Profile / High Profile	
Frame Rate	1~30fps adjustable	
Main Stream	1080P(1920*1080),960P(1280*960),720P(1280*720),D1(720*576),VGA(640*480),Q720P(640*360),C F(352*288)	
Sub Stream	D1(720*576),VGA(640*480),Q720P(640*360),CIF(352*288)	
Third Stream	1080P(1920*1080),960P(1280*960),720P(1280*720),D1(720*576),VGA(640*480),Q720P(640*360),C F(352*288)	
Output Format	PAL/NTSC adjustable	
Max.Resolution	1920X1080	
Video Bit Rate	Constant bit rate, Variable bit rate(16kbps-8000kbps)	
Stream Type	Complex stream/ Video stream	
Audio Compression	G.711u	
Audio Bit Rate	64Kbps	
Audio Control	Input volume(0-100), Output volume(0-100)	
ROI	4 regions(1-6)	
FUNCTION		

	6000 H
Pan Range	360° endless
Tilt Range	0°~ 90°
Manual Control	0.1°~180°/s
Preset Speed Preset Accuracy	0.1°
Preset	256
Cruise	8 groups
Linear Scan	8 groups
Pattern Scan	4 groups
Continuous Scan	Support
Proportion Zoom	Auto
PTZ watch	None/ Preset/ Cruise/ Track/ Linear scan(1~15min)
Auto Flip	Mechanical Flip
Power Off Memory 3D Positioning	Support Support
Magnification / Coordinate display	Support
IR Irradiation Angle	Automatically adjusted, depending on the zoom ratio
IR Distance	120m
Smart IR	IR irradiation brightness and angle can be adjusted depending on the zoom ratio
NETWORK	
Network Protocol	IPv4,TCP,UDP,HTTP,HTTPS,SMTP,FTP,NTP,DNS,DDNS,DHCP,ARP,UPnP,RTSP,RTP,RTCP,IGM P,PPPoE,ICMP,SNMP
Access Protocol	ONVIF GB/T28181
Browser	Support IE above
Video Preview Meanwhile	Max 4CH
User Permission	User Add / Delete / Modify, Administrator/ Operator/ Ordinary users
Safe Mode	Authorized user name and password
Motion Detection	Multi-zone, Multi-level sensitivity optional
Tampering Alarm	1 zone can configuration
Privacy Mask	8 zones
Intelligent analysis	Target Count, Object Left/Lost, Area Detection, Line Crossing
Event Linkage	Snapshot, TF card record, FTP upload or Send email, Alarm output linkage, Preset linkage
Multicast Function	Enable/Disable Multicast
ANR	Support, match with NVR
Device Exception	Support network disconnected, IP conflict, illegal access alarm
OSD	Title, time and date overlay, OSD color/size adjustable
DST	Support
System Upgrade	Support online remote upgrade
INTERFACE	
Network Interface	RJ45 10M/100M Network Adaptive
Analog video output	1.0Vp-p complex video output 75 Ω
Audio	1CH Input/output, Monitoring or Bidirectional talk
Alarm Input	2CH input
Alarm Output	1CH output, support alarm linkage
Reset Button	Support
RS485	Half-duplex,support Pelco-P and Pelco-D

TF Card	Support Max 128G, Support NFR	
GENERAL		
Protection Level	IP66	
Operation Temperature	Outdoor: -30°C~60°C	
Operation Humidity	0%~90% RH (No condensation)	
Dimensions(mm)	380 (H) x 216 (D) mm	
Weight/PCS(g)	About 7Kg	
Power Supply	DC24V/1.5A (±10%)	
Power Consumption (Max.)	36W	

*Note: without notification to make changes in product design and/or specifications.

Network Interface of Network High Speed Dome

The default network ports of Network High Speed Dome are:

	80	Web port
ТСР	5050 Communication port, audio/video data transmission port, talkback data transmission port	
UDP	5050	Audio/video data transmission port
Multi-cast port	28080 [Main s	tream] 28081 [Sub stream]
Onvif port	80	
Rtsp port	554	
RTSP port	8002	
Search port	10000	
Telnet port	23	
Onvif search port	3702	
Video stream port	5051	
Playback, upgrade, search port	5052	
Mobile visit port	5053	
Https protocol port	443	

Default Network Parameters

Default network parameters

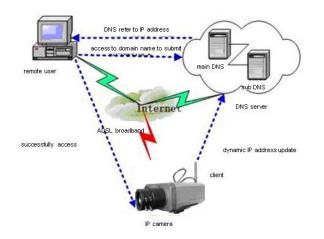
Cabled Network: IP Address: 192.168.1.188 Data Port: 5050 Subnet mask: 255.255.255.0 Web port: 80 Gateway: 192.168.1.1 DHCP: OFF

Network High Speed Dome DDNS

DDNS description

DDNS(Dynamic Domain Name System) means that DDNS is implemented through a dynamic domain resolution server. It requires a PC with fixed IP address on the Internet, on which the dynamic domain resolution server runs. All internet users can view the Network High Speed Dome via a fixed IP address.

Network High Speed Dome DDNS analytical process



Visit Network High Speed Dome under different network environments

Users visit the Network High Speed Dome through LAN/ WAN. The following directions will tell you how to operate the Network High Speed Dome through LAN/ WAN.

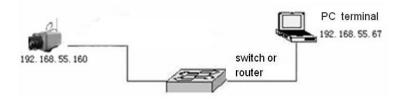
LAN

There two ways to connect Network High Speed Dome: Static IP/ Dynamic IP

Static IP

Static IP means the webmaster distribute a LAN inner IP address to the Network High Speed Dome. Keep your PC IP address same as the camera IP address and to implement access.

Network topological graph as follows::



Network setting reference:

IPv4o		RTSP Port: 554
Static IP 💿	DHCP	RTSP Validation: 🔲 HTTP-Base64 🗹 HTTP-Digest
IP Address : 192.168.1.188		RTMP Port: 1935
Subnet Mask: 255.255.255.0		Enable PPPoE:
Gateway: 192.168.1.1		Username:
DNS 1: <mark>8.8.8.8</mark>		Password:
DNS 2: 8.8.4.4		Confirm Pwd:
MAC: DO 7E CD 48 6F	35	PPPoE IP:

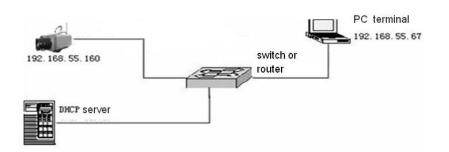
Setting procedure:

- 1. Log in Network High Speed Dome via the IE browser (the default IP is 192.168.1.188)
- 2. Switch to the page "Network Setting" interface, fill the device IP address the network administrator distributed in the IP address(eg.192.168.1.50)
- 3. Fill in subnet mask, the default is 255.255.255.0
- 4. Fill in gateway address, the default is 192.168.1.1

After input all parameters, click "Save", then the device restart, Input the device IP address at the IE browser to visit the camera.

Dynamic IP

Dynamic IP means that Network High Speed Dome obtains IP address from DHCP server. See below picture for the network topology:



Please refer to below picture for the network settings:

IPv4 <mark>⊙</mark>		RTSP Port: 554
Static IP 🔵	DHCPO	RTSP Validation: 🥅 HTTP-Base64 🗹 HTTP-Digest
IP Address : 192,168,1,188		RTMP Port: 1935
Subnet Mask: 255,255,255,0		Enable PPPoE: 🥅
Gateway: 192,168,111		Username:
DNS 1: <mark>8.8.8.8</mark>		Password:
DNS 2: <mark>8.8.4.4</mark>		Confirm Pwd:
MAC: 00:7E-CD:48:6F:85		PPPoE IP:

Log in Network High Speed Dome via IE browser. Then turn to "Network Setting" interface, click DHCP"

After setting all the parameters, click save and restart to make the parameters valid.

Internet

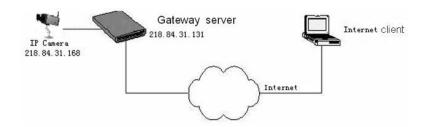
There are three ways to connect Network High Speed Dome to the Internet.

- 1. Fixed IP mode
- 2. ADSL broadband and router share online mode(Dynamic get the IP address mode)
- 3. PPPOE dial-up access

After Network High Speed Dome is connected to Internet, remote Internet users can visit it directly via domain name or IP address.

Fixed IP mode

See below picture for the network topology:



Please refer to below picture for the network settings:

	IPv4o		RTSP Port: 554	
	Static IP 💿	DHCP	RTSP Validation: 🥅 HTTP-Base64 📝	HTTP-Digest
IP Address	218.84.31.168		RTMP Port: 1935	
Subnet Mask	255.255.255.0		Enable PPPoE:	
Gateway	218.84.31.131		Username:	
DNS 1	8.8.8.8		Password:	
DNS 2	8.8.4.4		Confirm Pwd:	
MAC	00;7E:CD:48:6F:85		PPPoE IP:	

Setting steps:

1. Log in Network High Speed Dome via crossover cable direct connection.(For details, please refer to "Hardware Installation")

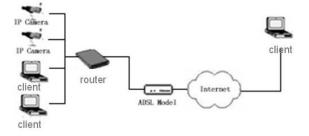
2. Switch to the page network settings, fill in the device IP address requested from network service provider in to Basic Parameters, such as 218.84.31.168

- 3. enter correct subnet mask. Such as 255.255.255.0
- 4. enter correct gateway address. Such as 218.84.31.131

After setup completes, click Save and restart the device, then connect it to public network so that all Internet users can visit the Network High Speed Dome remotely via entering http://218.84.31.168 to IE browser

Broadband and router sharing Internet access mode (dynamic obtainment of extranet IP address mode) like ADSL and so on.

If you select router dial-up to connect internet, see below picture for the network topology:



Users can set up DDNS domain name service at the same time. Fill the user name and password which were applied in the DDNS server into the DDNS setting item, implement port mapping from the router. The router determines and points to the Network High Speed Dome that need to be visited according to different ports, long-distance Internet user can visit the Network High Speed Dome on the network via domain name directly.

Please refer to below picture for the network settings:

DDNS Settings	
Enable DDNS:	2
DDNS Type:	No-IP
Status:	On 💽
Server Address:	dynupdate.no-ip.com
Port:	30
Username:	video
Password:	•••••
Confirm Pwd:	••••
Domain:	video.no-ip.net
	Save

DDNS setting procedure:

- 1. Login DDNS server (Such as http://www.no-ip.com), register accounts and password.
- 2. Click DDNS (It is selectable when server provider is blank)
- 3. Select DDNS server provider, such as no-ip
- 4. Input the DDNS login username
- 5. Input the DDNS registered password
- 6. Input the domain name applied on the DDNS server, such as video.no-ip.net
- 7. Input the DDNS address, such as dynupdate.no-ip.com
- 8. Input the DDNS port, default is 80.(Suggested users keep it)

After all parameters setting completed, click "Save" and devices comes into effect.

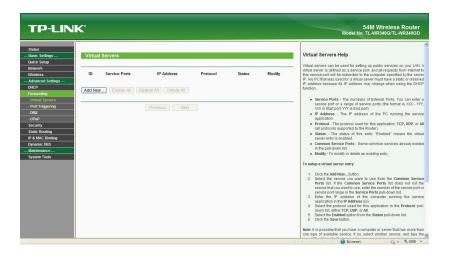
Port mapping setting procedure

TP-LINK TL-WR340G illustration:

1. Ask network administrator for the IP address of the router (i.e. LAN gateway address), login user name and password, then log in the router. The main interface is as follow:

LINK			54M Wireless Router Model No. TL-WR340G/TL-WR340GD
Status			
Finnware Version:	4.3.7 Build 090901 Rel	.61899n	Router Status Help
Hardware Version:	WR340G v5 08140201		
LAN			The Status page displays the router's current status and configuration. All information is read-only.
MAC Address:	00-27-19-5A-BB-68		
S IP Address:	192 168 1 1		LAN: The following is the information of LAN, as set on the Network ->
Subset Mask	255 255 255 0		LAN page.
Wireless			MAC Address - The physical address of the router, as seen from
Wireless Radio:	Enable		the LAN. • IP Address - The LAN IP address of the router.
SSID:	TP-LINK 5ABB68		 Subnet Mask - The subnet mask associated with LAN IP address.
Channel:	6		
Mode	54Mbps (802.11g)		Wireless: These are the current settings or information for Wireless, as set on the Wireless -> Wireless Settings page.
MAC Address:	00-27-19-5A-BB-68		secon me wineless -> twiteless secungs page.
IP Address:	192.168.1.1		 Wireless Radio - Indicates whether the wireless radio feature of the router is enabled or disabled.
WAN			SSID - SSID of the router
MAC Address:	00-27-19-5A-BB-69		Channel - The current channel in use.
IP Address: Subset Mask:	0.0.0	Dynamic IP	 Mode - Indicates the current mode (54Mbps (802.11g), 11Mbps (802.11b)). If displayed 54Mbps (802.11g), it is compatible with
	0.0.0.0		11Mbps (802.11b).
Default Gateway: DNS Server	0.0.0.0	Ronew Obtaining network parameters	 MAC Address - The physical address of the router, as seen from the Wireless I AN
Traffic Statistics	0000,0000		IP Address - Wireless LAN IP address of the router.
			WAN: The following parameters apply to the WAN (Internet) port of the
Received Sent			router. You can configure them on the Network -> WAN page.
Bytes: 0 4796			
Packets: 0 58 System Up Time:	0 day(s) 00:00:58	Refresh	 MAC Address - The physical address of the router, as seen from the internet.
system op 1me.	0 day(s) 00:00:28	renesi	 IP Address - The current WAN (Internet) IP Address. If assigned dynamically, and no connection to Internet, this field will be blank or 0.0.0.
			 Subnet Mask - The subnet mask associated with the WAN Internet IP Articese

2. Open "Forwarding", select "Virtual Servers" as below picture shows:



3. Select "Add New Items", enter the IP address of the Network High Speed Dome(e.g.192.168.1.100), port (e.g. 85), status (valid) and other information, click save, see below picture:

TP-LINK [®]	54M Wireless Router Model No. TL-WR340G/TL-WR340GD
Status Aff or Moldy's Visual lower Earry Base Sellings Darks Melly Writelas Status Mell Writelas 102 (50.110 Writelas Advect - Advects Sellings DirCp Tass: Forwards Status - Vortus Server Salet One- Selling - Pour Triggering Salet One- Selling - Datz - Salet One- Selling - Paul Michael Melly Salet One- Selling	 Virtual Servers Heip Virtual servers can be used for setting up public services on your LAN. A third service port will be ended service of the computer specified by the server provide the server provide the service port will be ended service and the service port will be ended service of the service provide the service of th

4. After save successfully, below screen appears:

Settings							
ic Settings Virtual Servers							Virtual Servers Help
Setup rk							Virtual servers can be used for setting up public services on your LAN
\$5	ID	Service Ports	IP Address	Protocol	Status	Modify	virtual server is defined as a service port, and all requests from Internel this service port will be redirected to the computer specified by the service
d Settings	1	85	192.168.1.100	ALL	Enabled	Modify Delete	IP. Any PC that was used for a virtual server must have a static or reserv IP address because its IP address may change when using the DHI
	2	86	192.168.1.111	ALL	Enabled	Modity Delete	function.
	3	9000	192.168.1.112	ALL	Enabled	Modity Delete	Service Ports - The numbers of External Ports. You can enter
							service port or a range of service ports (the format is XXX - Y
	Add Ne	Enable All	Disable All Delete Al				 VOX is Start port, YYY is End port). IP Address - The IP address of the PC running the service
				_			application.
							 Protocol - The protocol used for this application, TCP, UDP, or (all protocols supported by the Router).
			Previous Ne	ext			. Status - The status of this entry. "Enabled" means the virtu
							 Common Service Ports - Some common services already exist
							in the pull-down list.
							 Modify - To modify or delete an existing entry.
							To setup a virtual server entry:
							1. Click the Add New., button.
							2. Select the service you want to use from the Common Servi
							Ports list. If the Common Service Ports list does not list t service that you want to use, enter the number of the service port
							service port range in the Service Ports pull-down list.
							Enter the IP address of the computer running the serv
							application in the IP Address box. 4. Select the protocol used for this application in the Protocol p
							application in the IP Address box.

5. If DDNS is successfully set in "Network Settings" of Network High Speed Dome, direct visit to the Network High Speed Domecan be realized via entering http://test.mvddns.net:85 into IE browser.

Frequently asked questions

1.No video image displayed in IE browser.

Possible reason: ActiveX not installed

Solution: ActiveX must be installed when visiting Network High Speed Dome for the first time via Internet Explorer.

How to install: Visit IP camera, file download dialog will pop up automatically, select Run or Save to download. After download finishes, installation interface will pop up, click install, the installation of ActiveX will start automatically, "Finish" dialog box will pop up to remind the completion of installation process.

2.Fail to visit Network High Speed Dome via IE after upgrade.

Solution: Delete the caching of Browser:

Open IE→click Tool→select "Internet Options"→click delete files button in "Internet temporary files"→ select "delete all offline contents"→click OK and re-log in Network High Speed Dome.

3. The images do not flow.

Possible reason 1: The frame rate of Network High Speed Dome is too low.

Solution: Increase the video frame rate

Possible reason 2: Too many users are viewing the images.

Solution: Block some clients or reduce the video frame rate.

Possible reason 3: The bandwidth is low.

Solution: Reduce video frame rate or video compression bit rate.

4.Fail to visit Network High Speed Dome via IE browser.

Possible Reason 1: Network is disconnected.

Solution: Connect your PC to network, checking whether it works properly or not. Check whether there is cable failure or network failure caused by PC virus, until PCs can be connected with the command of Ping.

Possible reason 2: IP Address has been occupied by other devices

Solution: Stop the connection between Network High Speed Dome and Network, hook up Network High Speed Dome to PC separately, reset IP address according to the proper operations recommended.

Possible reason 3: IP addresses are in different subnets.

Solution: Check IP address, subnet masking address of the DVS and the settings of Gateway.

Possible reason 4: Physical address of network conflict with Network High Speed Dome

Solution: Modify the physical address of Network High Speed Dome.

Possible Reason 5: Web port has been modified

Solution: Contact Network Administrator to obtain related information.

5. The color of images is abnormal (green or other colors).

Sometimes Network High Speed Dome images cannot display properly for the difference between Graphics Cards, the images appears to be green or other colors, then you should run the programme Config.exe (or run C:\windows/ system32\Config.exe)to set the following parameters of display buffer: auto-detection, used display card memory or system memory, then reopen IE and connect Network High Speed Dome.

6. There is no sound while monitoring

Possible Reason 1: No audio input connection

Solution: Check audio connection of the host

Possible Reason 2: The audio option of Network High Speed Dome is off

Solution: Check audio parameter settings to see if you have opened the audio.

7.Search NVS software cannot find device.

Possible reason: Search NVS software adopts multicast protocol to perform searching. But the firewall forbids multicast data packet. Solution: Disable the firewall. 8.Image processing doesn't work properly.

Possible Reason 1: System issue, DirectX function is disabled, which will cause slow display of images and abnormal color.

Possible Reason 2: Hardware issue, graphics card doesn't support image acceleration and hardware zooming functions.(For hardware issue, the only solution is to replace graphics card)

Solution: Install DirectX image drive, then Start \rightarrow Run \rightarrow input "Dxdiag"order.



Enable DirectDraw speedup, Direct3D speedup, AGP veins speedup in DirectX function. If they cannot be enabled, that means DirectX installation fails or hardware not supportive.