

Megapixel IP Speed Dome Camera User's Guide V1.1

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T Precaution

*Please read this manual carefully before the installations and operations.

Transportation Security

No heavy stress, violent vibration or water splash are allowed during transportation, storage. The unit should be transported in separated packing. In shipments of distributor and delivery of maintenance, any damages caused by integral packing are not covered by warranty.

Installation

Avoid heavy stress and violent vibration during installation. Don't touch the dome cover directly by hand. When connecting the power source, please follow all electric safety standards and only use the power supply designated for this device. Keep the video and control signal in a decent distance from high voltage devices and cable. Don't apply power to dome before finishing the installation.

Internal Environment

Keep metal and inflammable material away from dome body to avoid fire short circuit and damage. Please prevent all liquids material from entering the dome. If this occurs, please shut down the power and pull out the plug-in. Then please inform the technical personnel immediately.

Electrical Safety

The video image would be interfered when the dome is installed near Television, radio transmitter, voltage changer and audio amplifier.

Camera Protection

Avoid shooting very bright objects directly into the camera's CCD (such as the sun or light fittings) and avoid fixating the camera lens on bright static object for long time, as it will cause Irreparable damage to the camera's CCD.

Cleaning Method

Please don't use abrasive and violent detergent to clean the dome. Please choose dry fabric and neutral detergent. And please use lens paper to clean the lens.

*Internal removing, assembly, repair and operations should be only performed by qualified service personnel.

Please use our production under the following environmental standards:

Environmental Temperature:	-35 ∼60 ℃
Environmental Humidity:	<95%
Barometric Pressure:	$86{\sim}106$ KPa
Power Supply:	DC12V/5A



Special Features

• High definition

H.264 compression algorithm, save the network bandwidth and hard disk storage space, aspect ratio of 16:9 and 4:3 adjust at will; h. 264 main profile level and M - JPEG video streaming can be output at full frame speed. support for dynamic coding parameters adjustment

•Zoom and automatic focusing

With 20 x optical zoom, more than 20 times digital zoom and autofocus function, not only can provide an ideal field of vision, but also can realize perfect automatic focus

• Double stream free switch

Support the double stream, choose the main stream or sub stream according to different application.

Supported protocols

Support TCP/IP、PPPoE、DHCP、UDP、MCAST、FTP、SNMP 、Onvif、CGI、PSIA etc

Voice intercom function

Support Voice intercom

Alarm function

Support the local and network linkage signal; Provide area, mobile sensitivity detection alarm, regional block alarm

Main Features

- Stepless speed changes, auto zoom/speed matching
- Pan 0.01~360°/S, Tilt 0.01°~120°/S, Preset: 360°/S (high speed IR speed dome)
- Pan 0.5°~35°, Tilt 0.5°~35°, Preset:35°/s (for Vari-speed IR dome)
- Auto object track with zoom in/out and motion detection (Auto Track Model)
- Timing actions for 7 days of programmable schedule
- Built-in Semi-conductor heater & digital temperature sensor
- PWM cooling fan vari-speed temperature control
- Reserved network interface and space for network module
- Pan Tilt accuracy +/- 0.1°, 256preset positions
- 8 cruising tracks, each cruising track has 32 presets
- 4 pattern tours, 10 Mins memory, 500 programmable instructions

- Multi-Protocol through RS485 or coaxial cable.
- 8 auto scan with use-defined left and right boundaries and settable scan speed
- 8 Privacy Zones with defined English camera title
- Auto Compatible PELCO_P, PELCO_D compatible
- Guard Location: the dome will rotate back to preset position after a period of vacant time
- Alarm triggering: the alarm can trigger preset, auto scan, cruising and pattern tours functions
- Soft Address Function: the use can set up the dome address without uninstall the dome

Integrated Super Speed PTZ Rotator

- Delicate stepping motor, stable, sensitive and accurate
- 360° Pan and 90° Tilt range (auto-flip) without blind area
- Stepless speed change, auto zoom/speed matching
- Near / far IR Light auto matches camera zoom in/out

Built-in High Definition Day/Night Camera

- Auto iris, auto back light compensation
- Auto/manual white balance
- Auto/manual brightness control
- Auto/manual focus
- Multiple compatible camera brands including Sony, Samsung, LG, CNB, Sanyo etc.

All-weather Outdoor Design

- 5 Inch High die-cast alloy aluminum construction
- High Precision Mould with high heat conductivity
- Fully enclosed isolation design for heat sink
- Nanometer Dustproof, waterproof and fog-proof lens
- IP66 Waterproof
- 3000V lightning and surge current protection

Function Instructions

• Focus / PTZ Speed Auto Match

The pan/tilt rotation speed could be automatically adjusted according to the focus in/out, which makes it much more practical for manual target tracking. (Only for the auto tracking IR speed dome)

• Auto Flip

When the camera tilts downward and goes just beyond the vertical position, the camera will rotate 180 degrees.

• Preset Position Set up and Call Up

In the Preset function the dome stores the current pan/tilt angle, zoom and other position parameters in its memory. When necessary the dome recalls these parameters and adjusts the camera to a particular position. The user can store, recall and clear the presets easily and promptly by using the keyboard controller. The dome can store up to 256 presets.

• Auto Scan

Users can set up the left and right boundaries by control keyboard. Then speed dome can scan between this boundary. It supports up to 8 groups of scanning paths.

• Cruising Track

The preset position can be programmed to be recalled in a set of sequences. This sequence can be set to let the camera scan from one position to the next in a cycle at a set speed. This feature is called the "auto cruise". The cruise sequence and dwell time of each preset can be set. It supports up to 8cruising tracks, each cruising track with 32 presets.

• Pattern Tour

Dome can memorize 600S running path or 500 programmable instructions. When start pattern tour, speed dome will move automatically according recorded action path. It supports 4 groups of pattern tours.

3D Positioning

The dome automatically return to preset position if there is no operation in period of vacant time.

• Default Action

When you start up the dome camera or do not send commands over a long time, the dome camera will return to its default functions which include the home place, auto pan, auto cruise and pattern.

Dome Address Setup

The dome supports up to 256 addresses and the dome will only response to the instructions given to its own address. Please check the dip switch on the bottom of the dome for address setup.

Privacy Mask Protection

Set black mask areas to protect the privacy zones. The black privacy locations can be set, and support up to 8 mask zones.

• Coordinates and Directions Display

User can define the dome's direction of due north, which will help to show up the exact moving directions on screen. And zone title is supported to display when the dome moves to the specified zone.

Auto Tracking

The dome will automatically fix and track the moving object according to the user's setup via OSD.

Motion Detection

The dome will detect the changes in the defined video zone and trigger alarm. It supports to 8 video Locations, each with 4 detection zones.

PTZ and Lens Control

1) Zoom Control

Users can control zoom by keyboard to get near or far images.

2) Focus Control

The default setting is auto focus. The camera will auto focus based on the center of the video display to get the clear image. In some special occasions, the user could do the manual focus to get the desired image effect.

3) Auto Iris Control

Auto Iris is aiming to detect the environmental lights condition and adjust the iris to get the stabilized brightness of the image.

4) Auto Back Light Compensation

In the highly bright background, auto back light compensation is aiming to compensate the brightness of the dark object and adjust the background brightness to get a clear image.

5) Auto/Manual White Balance

Auto/Manual WB adjust depending on the environment light changes.

- 6) Day and Night Switch (Only for Day/Nigh Camera)
- Speed dome camera can auto switch according to the environmental illumination changes.
- 7) OSD Setup (Only for camera with menu)

Call upon preset No.95 to enter into OSD menu setup interface. Click "Focus" to choose menu items and click "Iris" to set menu contents.

• Alarm(optional)

The speed dome support 7 alarm input,1alarm output. Alarm input mode can be set up normally open or normally closed.



•Technical Data	
Power Supply:	DC12V <u>+</u> 10% 50W
Decoder:	Built-in
Manual Speed:	Pan: $0.01^{\circ} \sim 360^{\circ}$ /S, Tilt: $0.01^{\circ} \sim 120^{\circ}$ /S (high speed) Pan: $0.01^{\circ} \sim 100^{\circ}$ /S, Tilt: $0.01^{\circ} \sim 100^{\circ}$ /S (Vair-speed)
Preset Speed:	360°/S (high speed) / 100°/S (Mid-speed)
Pan Angle:	360° continuous pan rotation
Tilt Angle:	90 [°] (Auto Flip)
Number of Preset:	256
Preset Accuracy:	<u>+</u> 0.1°
Alarm input&output:	7input,1 output
Auto Scan:	8 auto scan tracks, user-defined left and right boundaries and scan speed
Auto Cruising:	8 cruising tracks, each cruising tracks has 32 preset positions, user-defined dwell time
Pattern Tour:	4 patterns, up to 500 instructions per pattern
Guard Location:	The dome will rotate back to preset position after a period of vacant time.
Operating Humidity:	0~90%
Operating Temp:	-35 °C <u>+</u> 60°C

Main Functions Fast Call Up

Our IR Speed dome supports 220 preset positions. You can activate some special functions by calling upon code number 65-99.

Serial No.	Command	Fast Call Up	Note
1	Start Auto Scan	Call 99	Default to start auto scan of group No.1
2	Start Auto Cruise	Call 98	Default to start auto cruise of group No.1
3	Start Pattern Tour	Call 97	Default to start pattern tour of group No.1
4	Start Auto Scan of Group No.	Call 80+ Call pp+ Call 99	nn moans. Crown No.1.9
5	Start Auto Cruise of Group No.	Call 80+ Call pp+ Call 98	pp means: Group No.1-8
6	Start Pattern Tour of Group No.	Call 80+ Call pp+ Call 97	pp means: Group No.1-4
7	Close OSD Menu	Call 96 or Call 26	
8	Open OSD Menu	Call 95or Call 25	
9	Remote Reset	Call 94	
10	Recover Factory Default	Call 82	

General Operations

3.1 Factory Setting

Products have default network parameters as below for your reference when leave our factory. These parameters can be changed according to your need.

IP:192.168.0.99(for customized camera, please refer to specific label instruction)

Subnet Mask:255.255.255.0

Gateway:192.168.0.1

WEB Port:8000

User computer network parameters:

For Windows XP example, Please change user computer IP address to the same network segment with the speed dome camera before landing.Within the same LAN,IP address can't be the same, otherwise it will conflict, leading to equipment can't work normally.

After setting the IP address, click format is "ping192.169.0.99".



,open the command prompt, command

User computer is connected to this IP camera successfully as below display.

Pinging 192.0.0.64 with 32 bytes of data:

Reply from 192.0.0.64: bytes=32 time<1ms TTL=64 Reply from 192.0.0.64: bytes=32 time<1ms TTL=64 Reply from 192.0.0.64: bytes=32 time<1ms TTL=64 Reply from 192.0.0.64 bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.4: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms If the computer displays as below,

Pinging 192.0.0.64 with 32 bytes of data:

Request timed out. Request timed out. Request timed out. Request timed out.

Ping statistics for 192.0.0.64 Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

It suggests that the equipment is not installed well, you can check as the following aspects:

- 1:Is the firmware connected correctly?
- 2:Is TCP/IP set up to the same with this IP camera?
- 3: the network forbid the PING command, please consult the network administrator.

•WEB browse instructions

3.2.1 Login

In the WEB address bar enter IP address :192.168.0.99,a login page appears as below

			English	~
User Name	admin			
Password	•••••]		
	Login]		
		, ,		

User Name: admin

Password: admin

Port:8000

3.2.2 Download player components

After a successful login, the WEB prompts whether update the new version plugins, double click and download.

Double click the downloaded Webcompents.exe file and start to install WEB browse player components, click "NEXT" to confirm and finish. After installment, get back to WEB page and refresh the page, then you can view the video.

Note:

This player component must be installed to browse video from WEB. At present this player component support Windows2000/XP/2003/Vista32 operating system

3.2.3 Preview Screen and operations

After player component installment, enter IP address to login page again. With user name and password, click "Login" to preview screen.



ICON	Instruction
4:3	Preview screen 4:3 ratio
16:9	Preview screen 16:9ratio
XI	Original preview screen size
	Self-adaptive preview screen
Main Stream Sub Stream	Choose main stream or sub stream
•	volume
Ā	Start Two-way Audio
•	Stop Two-way Audio
Ó	Capture

è	Record
[3D]	Start 3D Zoom
	Control the Horizontal and vertical motion, open/close auto scan
* #	Zoom
o o	Focus
0 0	Iris
+	PTZ Speed
	Light
(4)	Wiper
53	Auxiliary Focus
•	Patrol
*	Preset
e 3	Pattern
*	Lens Initialization
•	IR Setting
*	Track Setting

Preset operation instructions

1:In preset setting screen, Preset 9

display the current operating

preset NO.

2:Preset set: Choose the number of the preset, then operate PTZ control panel,

when lens move to the position to be set , $click^{\blacksquare}$ to save the preset number.

3:Call preset: Click 🞽 to call preset number that has been set.

4:Clear preset: Click 🔯 to clear preset number information.

5:Special function preset number: for special function preset, they can be called, but can't be altered or deleted.

Patrol function operation instructions



1:Preset set: Setup the preset number that need to add to patrol route, the steps please refer to "preset set" in preset operation instructions.

2:Choose patrol routes: Choose the patrol route number that need to be edited, such as route 1

3:Add preset number: add preset number that has been set to routes, then set the corresponding time and speed of patrol.

4:Save patrol routes: Click 🕮 to save patrol routes.

5:Start/Stop patrol: Click <a>[10] to start patrol, and click <a>[10] to stop patrol.

6:Delete patrol: Click [©] to delete patrol route.

Pattern:



2:Start recording pattern :Click to start recording pattern, through PTZ panel to control the movement of speed dome.

3:Stop recording pattern: Click to stop recording pattern and save recording.

4:Start/Stop pattern: Click to start, click to stop.

5:Delete pattern: Click to delete this pattern.

IR Setting operation instructions:

	12 5
ج ی و	* * *
IR NEAR	10 🔻
IR FAR	10 🔻
COMPANSA	TI(0 v
SENSITIVITY	(4 ▼
POWER AUT	rc OFF ▼)L
MODE	
SA	WE

In IR setting screen, users can set IR near consumption1-10,IR far consumption ,compensation, sensitivity, VAL,IR mode.

Auto-track Setting:

In auto-track setting screen, users can set tracking scene, tracking sensitivity, return(sec),AUX.

1	@ (P		*
SENS	SITIVITY	MIDE	•
ZOON	1	10	•
RETU	RN(SEC	10	•
AUX		OFF	•
	SAV	E	
		OFNE	OFT
TRA	CKINGS	CENE	SEI
	DN	OFF	SEI
			SEI
			SEI

1:Tracking sensitivity can be set to be low, middle, high. To low sensitivity, only obvious movement can arouse tracking function of the speed dome; To high sensitivity, little movement can arouse tracking function.

2:Zoom:Upon tracking function, the speed dome adjusts the zoom of camera according to moving target in the scene, so make sure that moving target can keep corresponding ratio in the video screen.

Q Search

Playback:											
Live View	Playback	Log	Config	uration			2	💄 adr	nin	•	Logou
				Status			Mar	20	014		► ₩
					Sun		Tue	Wed	Thu	Fri	Sat
					23	24	25	26	27	28	1
					2	3	4	5	6	7	8
					9	10	11	12	13	14	15
					16	17	18	19	20	21	22
					23	24	25	26	27	28	29
					30	31	1	2	3	4	5
							0	Sea	rch		
			_								
3:00 19:00 20:00	2014 21:00 22:00 23:0		02:00 03:00	© © 04:00 05:00 06: 04:00 05:00 06:	Se 00		back ti	ime 00		→	

Click "Playback "to get into video search and playback screen. Users can search, replay and download stored valid video files in SD card or NAS.

Choose a day in the calendar on the right side ,click

Eligible video file will be displayed on the timeline. Drag the timeline to the position you want to play. Click the play button to start playback file.

Live View	Playba	ack	Log	Configu	uration	🚨 admin 🛶 L
			3			
Time	Major Type	Minor Type	Channel No.	Local/Remote User	Remote Host IP	Search Log
						Major Type
						All Types
						Minor Type
						All Types
						Start Time
						2014-03-04 00:00:00
						End Time
						2014-03-04 23:59:59
						Q Search
						₩ Save Log

Click "Log" to get into search log. User can search, display and export stored valid log information in the SD card or NAS.

Choose the type of log and set the query date and the time of starting and ending,

then click Click Save Log , log information is saved in the computer.

Note:

Playback and log function is available under the premise of inserted SD card or NAS. For the first configuration ,

Configuration :

Click "Configuration" to get into the parameters configuration screen. Advanced Configuration—Local Configuration

Advanced Configuration ~	Local Configuration				
Local Configuration					
System	Live View Parameters				
Network	Protocol	TCP		MULTICAST	HTTP
Video/Audio	Live View Performance	Shortest Delay	Real Time	Balanced	Fluency
○ Image	Rules	Enable	Disable		
Security	Image Format	JPEG	BMP		
Events					
Storage	Record File Settings				
	Record File Size	256M	512M	🔵 1G	
	Save record files to	C:\Users\liberty\web	orcd\Records		Browse
	Save downloaded files to	C:\Users\liberty\web	orcd\Downloads		Browse
	Picture and Clip Settings				
	Save snapshots in live view to	C:\Users\liberty\web	orcd\Capture		Browse
	Save snapshots when playback to	C:\Users\liberty\wel	orcd\PlaybackPicture	8	Browse
	Save clips to	C:\Users\liberty\wel	orcd\PlaybackFiles		Browse
					Save

	Local Configuration Screen
Parameter	Instruction
Protocol :	TCP、DP、ULTICAST、HTTP(optional)
Live View Performance:	real-time、balanced、fluent (optional)
Record File Sizes:	256M、512M、1G (optional)
Save record files to:	the default system disk:\Documents and
	Settings\User\Web\Record Files, according to the actual
	situation to change
Save downloaded files	the default system disk:\Documents and
to :	Settings\User\Web\Record Files, according to the actual
	situation to change
Save snapshots in live	the default system disk:\Documents and
view to:	Settings\User\Web\Capture Files, according to the actual
	situation to change

System—Device Information

Live View	Playback	Log	Configuration	💄 admin 🛶 Logout
Advanced Configuration	on ~ Device Information Time	e Settings Mainter	nance RS232 RS485	
Local ConfigurationSystem	Basic Information			
Network	Device Name	PTZ CAMERA		
Video/Audio	Model	720P CAMER	AK20HA	
○ Image	Serial No.	720P CAMER	A:K20HA20131022CCCH43778	36383
Security	Firmware Version	V5.0.2 build 1	31031	
© Events	Encoding Version	V4.0 build 13	1017	
Storage	Number of Channels	1		
	Number of HDDs	0		
	Number of Alarm Input	1		
	Number of Alarm Outpo	ut 1		
				Save

In Device Information screen, users can set Device Name、Model、Serial No.、 Firmware Version、Encoding Version、Number of Channels、Number of HDDs、 Number of Alarm input and output.

Playback	Log	Co	onfiguration	💄 admin 🛶 Log
- Device Information	Time Settings	Maintenance	S232 RS485	
Time Zone	(GM	T+08:00) Beijing, U	rumqi, Singapore 🔻	
Time Sync.				
○ NTP				
Server Address	time.	windows.com		
NTP Port	123			
Interval	1440		min.	
Manual Time	Sync.			
Device Time	2014	-03-04T16:56:21		
Set Time	2014	-03-04T16:56:15	🔲 🔲 Sync. with comp	outer time
	 Device Information Time Zone Time Sync. NTP Server Address NTP Port Interval Manual Time Device Time 	 Device Information Time Settings Time Zone (GM Time Sync. NTP Server Address time. NTP Port 123 Interval 1440 Manual Time Sync. Device Time 2014 	 Device Information Time Settings Maintenance R Time Zone (GMT+08:00) Beijing, U Time Sync. NTP Server Address time.windows.com NTP Port 123 Interval 1440 Manual Time Sync. Device Time 2014-03-04T16:56:21 	 Device Information Time Settings Maintenance RS232 RS485 Time Zone (GMT+08:00) Beijing, Urumqi, Singapore Time Sync. NTP Server Address time.windows.com NTP Port 123 Interval 1440 min. Manual Time Sync. Device Time 2014-03-04T16:56:21

In the Time Settings screen, time sync is operational. "Time Zone" shows the current IP camera's time zone, and that can be set according to the actual situations. For "Time Sync", set NTP server address, NTP port, Internal, the device will be time sync every once in a while according to the setup. For "Manual Time Sync", set time and check "Sync with computer time", and then the time of the speed dome syncs with the local PC. After changing some parameters and click "save "to save the corresponding settings.

System—Maintenance

Live View	Playback	Log	Configura	ation		ء 💄	admin 🛶 Logout
Advanced Configuration ~	Device Information Time	e Settings Mainter	nance RS232	RS485			
 Local Configuration System 	Reboot						
 Network 	Reboot	Reboot the de	vice.				
O Video/Audio							
⊖ Image	Default						
Security	Restore	Reset all the p	arameters, except th	ne IP parame	ters and user info	rmation, to the d	lefault settings.
 Events 	Default	Restore all par	rameters to default s	settings.			
 Storage 							
	Import Config. File						
	Config File					Browse	Import
	Status						
	Export Config. File						
	Export						
	Remote Upgrade						
	Firmware					Browse	Upgrade
	Status						
	Note : The upgrading	process will be 1 to	10 minutes, please	don't disco	nnect power to the	e device during	ı –
	the process. 1	The device reboots a	utomatically after u	pgrading.			

Click Reboot

to reboot the device.

Click Restore to reset all the parameters, except the IP parameters and user information , to default settings.

Click Default to restore all the parameters to default settings. Import and export config file can import and export corresponding config files.

Click Browse and choose the local upgrade file, then click Upgrade to upgrade the device version. "Status" shows the current upgrade progress, after the upgrade is complete, you will be prompted to upgrade successfully. Note:

The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device during the process. The device reboots automatically after upgrading.

System—RS232

Live View		Playback	Log		Configu	ration	💄 admin 🛶 Logo
Advanced Configure	ration ~	Device Information	Time Settings N	laintenance	RS232	RS485	
 Local Configuration System 	tion	Baud Rate	115200) bps		¥	
Network		Data Bit	8			¥	
O Video/Audio		Stop Bit	1			¥	
○ Image		Parity	None			T	
 Security 		Flow Ctrl	None			¥	
 Events 		Usage	Transp	arent Channe		T	
Storage							
							Save

In "RS232" screen , Baud Rate factory default is 115200 bps.

Live View	Play	back	L	og	Configu	ration	💄 admin 🛶 Lo
Advanced Configurati	on v De	vice Information	Time Settin	gs Maintenan	ce RS232	RS485	
Local Configuration			_				
System		Baud Rate		9600 bps		•	
Network	Network Data Bit			8		•	
Video/Audio		Stop Bit	[1		•	
Image		Parity	[None		T	
Security		Flow Ctrl	[None		•	
© Events		PTZ Protocol	[PELCO-D		T	
Storage		PTZ Address	ŀ	1			
			L				

In "RS485" screen, Baud Rate factory default is 9600 bps.

Live View	Playback	Log	Configuration		💄 admin 🛶 I
Advanced Configuration Local Configuration Local Configuration	TCP/IP Port DDNS NIC Settings NIC Type DHCP IPv4 Address IPv4 Address IPv4 Default Gateway IPv6 Mode IPv6 Address IPv6 Default Gateway IPv6 Default Gateway Mac Address MTU Multicast Address	PPPoE SNMP 8 Auto 192.168.0.99 255.255.255.0 Route Advertise :: 0 44:19:b7:15:62 1500	ement V	JPnP™ Email NAT	
	DNS Server Preferred DNS Server Alternate DNS Server	8.8.8.8			

In "TCP/IP" screen, users can set "NIC Type"、 "IPv4 Address"、 "IPv4 Subnet Mask"、 "IPv4 Default Gateway"、 "MTU"、 "Multicast Address"、 "Preferred DNS Server"、 "Alternate DNS Server". Check "DHCP" and the device obtains IP address automatically. After changing some parameters and click Save to save the corresponding settings.

Live View	Playba	Playback		Log		(Configuration					💄 admin 🛶 Lo
Advanced Configurati	on Y TCP	IP Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	UPnP™	Email	NAT	
Local Configuration												
System		ITTP Port		80								
Network	1	RTSP Port		554	4							
O Video/Audio	1	ITTPS Por	t	443	3							
Image	:	erver Port		800	00							
 Security 												
O Events												
Storage												Save

"Port" screen includes: "HTTP Port" (the default is 80), "RTSP Port" (the default is 554), "HTTPS Port" (the default is 443). Through network access the device, users can set corresponding port as needed.

After modifying the parameters, click Save to save the settings. Note: Reboot the IP camera after modifying the parameters.

Network---DDNS

Advanced Configuration ~	TCP/IP Port DD	NS PPPoE	SNMP	802.1X	QoS FTP	UPnP™	Email	NAT					
 Local Configuration System 	Enable DDNS	6											
Network	DDNS Type		HIDDNS										
O Video/Audio	Server Address	٧	www.hiddns.com										
○ Image	Domain												
© Security	Port	C)										
Events	User Name												
Storage	Password												
	Confirm												

In "DNNS" screen, check" Enable DDNS" and "DDNS Type" can be chose to as "IP Server", "DynDNS" or "HDDNS".

For DynDNS and HDDNS, need to fill in the operator's server address, enabled by default, the DNS server address is the address of the server software operators, the device domain is the domain name that users apply in software operator website, port number can be configured as needed, the user name and password

corresponds to user registered account user name and password.

For IP Server, just fill in the server address and cooperate with IPServer and iVMS client software. Please refer to instruction documents of IPServer and iVMS client software for client using method.

After modifying the parameters, click Save to save the settings.

Network---PPPoE

Live View	P	layback	[Log			Config	uratio	on				💄 admir	i 🖙 I	ogout
🖗 Advanced Configur	ration ~	TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	UPnP™	Email	NAT				
Local Configuration	tion															
System			nable P	PPoE												
Network		Dyna	amic IP		0.0	.0.0										
Video/Audio		Use	r Name													
○ Image		Pas	sword													
Security		Con	firm													
© Events																
Storage															Save	
															Save	
Check "Enable click Save		DE.			PP₀E dyna			ter	the	user	nam	ie ai	nd p	assw	ord,	
					-		Save									
After modifyir	ng the	par	ame	eters	, clic	k 📃	Jave		to	save	the	sett	ings			

Note:

Default gateway is invalid after enable PPPoE. Users need to restart the IP camera after modifying the parameters.

Live View	Playback	Log	Config	uration		💄 admin 🛶 Loge
Advanced Configuration	TCP/IP Port DDNS	PPPoE SNMP	802.1X QoS	FTP UPnP™	Email NAT	
Local Configuration	SNMP v1/v2					
System	Enable SNMPv1					
Network	Enable SNMP v2c					
Video/Audio						
 Image Security 	Write SNMP Communi					
 Security Events 	Read SNMP Commun	ity public				
 Storage 	Trap Address					
- Sibiage	Trap Port	162				
	Trap Community	public				
	SNMP v3	_				
	Enable SNMPv3					
	Read UserName					
	Security Level	no auth, no		•		
	Authentication Algorith	m MD5	SHA			
	Authentication Passwo	ord				
	Private-key Algorithm	DES	AES			
	Private-key password					
	Write UserName					
	Security Level	no auth, no	priv	•		
	Authentication Algorith	m MD5	SHA			
	Authentication Passwo	ord				
	Private-key Algorithm	DES	AES			
	Private-key password					
	SNMP Other Settings					
	SNMP Port	161				
				1		
						Save

Network---SNMP

The IP camera supports three types of network management protocols ,namely SNMPv1、SNMPv2 、SNMPv3 and choose related protocol as needed. Through configuration SNMP protocol, parameters and abnormal alarm information of the device can be received.



After modifying the parameters, click Save to save the settings. Note: Before setting SNMP parameters, users need to have the SNMP server and configure all parameters.

Network---802.1X

l	ive View		Playback	C C		Log	J		Config	uratio	n			💄 admir	n 6	Logout
A %	dvanced Configur	ration ~	TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	UPnP™	Email	NAT			
	Local Configuration	tion														
	System			Enable I	EEE 802.	1X										
	Network		Prot	locol		E/	P-MD5			T						
	O Video/Audio		EAP	OL vers	ion	1				¥						
	Image		Use	r Name												
	Security		Pas	sword												
	 Events 		Con	nfirm												
	 Storage 															
															Sa	ave

Users authority certification to the connected device can be achieved by configuration 802.1X.

Check "Enable IEE 802.1X"	Enable IEEE 802.1X	,the default protocol is
EAP-MD5;EAPOL version 1	and 2 is optional.	

After modifying the parameters, o	click Save	to save the settings.
-----------------------------------	------------	-----------------------

Network---Qos

Live View	1	Playback			Log			Config	uratio	n			💄 admin 🛛	🛹 Logout
Advanced Configuration	ation ~	TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	UPnP™	Email	NAT		
Local Configuration	on													
System		Vide	o/Audio	DSCP	0									
Network		Event/Alarm DSCP		0										
Video/Audio		Man	ageme	nt DSCP	0									
Image														
 Security 													S	Save
O Events														
 Storage 														

By configuration QoS can effectively solve the problem of network delay and network congestion.

In Network—QoS screen, users can set "Video/Audio DSCP"、 "Event/Alarm DSCP"、 "Management DSCP"

After modifying the parameters, click Save to save the settings. Note: QoS function need network device support of transmission path(such as router).

Network---FTP

Live View	F	Playback	C C		Lo	g		Config	uratio	on			💄 admin 🛶 Logou
Advanced Configure	ration ~	TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	UPnP™	Email	NAT	
Local Configura	tion												
System		Server Address			0	0.0.0							
Network		Port			2	1							
Video/Audio		User Name											
Image		Password											
 Security 		Con	Confirm										
O Events		Dire	ctory Str	ucture	5	Save in the root directory.							
Storage		Pare	ent Direc	ctory	ι	Use Device Name							
		Chil	d Direct	ory	l	Jse Camera	a Name		T				
		Uplo	oad Type	•		Upload Pi	cture						
													Save

By configuration FTP parameters, the screenshot files of IP camera can be uploaded to FTP server.

"Directory Structure" can set the save path of files to "Save in the root directory", "Save in the parent directory" or "Save in the child directory". In Parent Directory can choose "Use Device Name", "Use Device Number", "Use Device IP" to define. In Child Directory can choose "Use Camera Name", "Use Camera Number" to define.

For "Upload type", check "Upload Picture" to start the uploading function.

After modifying the parameters, click Save to save the settings.

Live View	Playba	ck		Log			Config	uratio	n			💄 admin 🛶 Logo
² Advanced Configuration ∽	TCP/II	P Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	UPnP™	Email	NAT	
Local Configuration												
© System		Enable U	JPnP™									
Network	F	iendly Na	me	UP	NP 720P	CAMERA	(20HA-	4377				
O Video/Audio												
© Image												Save
 Security 												
© Events												
Storage												

For a IP camera in the intranet environment, UpnP function can make gateway or router to do automatic port mapping, the IP camera's listening port from the gateway or router mapped to the intranet device, and gateway or router network firewall module opens to other computers on this port. Users don't need to do port mapping in router, the premise is the router support UPNP, and open this function.

Network---NAT

			L	Config	uratio	n			💄 admin 닡	P Lo		
Advanced Configuration ~	TCP/IP	Port DI	DNS PPPc	E SNMP	802.1X	QoS	FTP	UPnP™	Email	NAT		
 Local Configuration System 	🖉 Ena	able Port I	Mapping									
Network	Port M	lapping M	ode	Auto			T					
Video/Audio		P	ort Type	Ext	ernal Port		Exter	nal IP Addre	ess	Status		
Image	1	н	TTP	80			0.0.0	.0		Not Valio	1	
 Security 	1	R	RTSP 554		4			0.0.0.0		Not Valio	1	
© Events	a	S	erver Port	80	00		0.0.0	.0		Not Valid	i	
Storage												

Check "Enable Port Mapping" ^{Chable Port Mapping} to start port mapping.

Live View	Playback	Log	Configuration	💄 admin 🛶 Logo
Advanced Configuration Local Configuration System Network Video/Audio Image Security 	Video Audio Stream Type Video Type Resolution Bitrate Type Video Quality	Main Stream Video&Audid 1280*720P Variable Medium		
 Events Storage 	Frame Rate Max. Bitrate	25 2048	▼ Kbps	
	Video Encoding	H.264 50	·	
				Save

In video setting screen, users can set some parameters such as "Stream Type", "Resolution", "Max. Bitrate".

	Video Settings
Parameters	Instructions
Stream Type:	main stream 🗤 sub stream
Video Type:	video stream、video& audio
Resolution:	1280*720p、1280*960
Bitrate Type:	variable, constant
Video Quality:	highest、higher、medium、low、lower、lowest
Frame Rate:	25、1/16、1/8、1/4、1/2、1、2、4、6、8、10、12、15、
	16, 18, 20, 22
Max. Bitrate:	according to the selected resolution, choose the corresponding
	bitrate or custom bitrate
Video Encoding:	set encoding type according to the actual demand
1 Frame Internal :	1-400(between front and back two key frames)

Live View	Playback	Log	Configuration	💄 admin 🛶 Logo
Advanced Configuration Configuration System Network Video/Audio Image		oding G.711ulaw t Lineln	▼ ▼ 50	
 Security Events Storage 				Save
		Audio se	ettings	
Parameter	s		Instruction	15

G.711ulaw、G.711alaw、G.726

Micln, Lineln

Image---Display Settings

Audio Encoding:

Audio Input:

Live View	Lo	9	Configura	ition	💄 admin 🛶 Log		
Advanced Configuration ~	Display Settings	OSD Settings	Text Overlay	Privacy Mask			
© System	2014-03-0	4 17:13:00	1000 1000	18	^ Image Adjustment		
Network	2011-03-0	1 41 .13.00	R- BP	1	Brightness		50
© Video/Audio					Contrast		50
◎ Image	144	N mark			Saturation =		50
© Security	1				Sharpness		50
© Events	1 2						
© Storage	1	TAL		1	* Exposure Settings		
					Focus Settings		
					~ Day/Night Switch		
			/	AM 01	* Backlight Settings		
					* White Balance		
					Image Enhancement		
					✓ Video Adjustment		
					∽ Other		
					Default		

Sharpness: the higher the sharpness, the clearer the image edge. Focus settings—Focus Mode Under "Auto" mode : automatic focusing according to the monitoring scene. Under "Semi-auto" mode: focusing after controlling PTZ and lens zooming, it is no longer to focusing after focus clearly even though the scene changes.

Under "Manual" mode: in live view screen, focusing manually.

"Min. Focus Distance": when distance from the scene to the lens is less than the setting distance, it does not focus.

Exposure Settings—Exposure Mode

"Auto": automatically adjust Iris, shutter, gain.

"Iris Priority": the fixed Iris value that set, automatically adjust shutter and gain.

"Shutter Priority": the fixed Shutter value that set, and automatically Iris and gain. "Manual": set Iris ,shutter and gain manually.

Backlighting Settings—BLC

When the background image is lighter ,opening BLC can effectively solve the problem of the foreground darkness due to inadequate exposure.

Digital Noise Reduction: with 3D image noise reduction, effectively reduce noise and the image is more delicate and fine.

Note: The sensitivity of Day/Night Switch can be set only when exposure mode is "auto". The mode of White Balance depends on the camera in the speed dome.

	Parameters settings								
Parameters	Instructions								
Brightness:	Adjust the image brightness, the value from 0 to 100 is								
	optional								
Contrast:	Adjust the image contrast, the value from 0 to 100 is optional								
Saturation:	Adjust the image saturation, the value from 0 to 100 is								
	optional								
Sharpness:	Adjust the image sharpness, the value from 0 to 100 is								
	optional								
Exposure Mode:	Auto、Iris priority、Shutter priority、Manual								
Limit Gain:	Adjust the image limit gain, the value from 0 to 100 is								
	optional								
Focus Mode:	Auto、Semi-auto、Manual								
Min. Focus Distance:	10cm、50cm、1m、1.5m、3m、6m								
Day/Night Switch:	Day、Night 、Auto								
Sensitivity:	High、Normal、Low								
BLC:	ON/OFF								

Parameters settings

WDR:	ON/OFF
White Balance:	MWB、AWB1、AWB2、Indoor、Outdoor、Fluorescent Lamp、
	Incandescent Lamp
DNR:	ON/OFF
Noise Reduction	The value from 0 to 100 is optional
Level:	
Mirror:	Left/Right、Up/Down、Center、OFF
Video Standard:	50hz、60hz
Lens Initialization:	Enable or disable
Zoom Limit:	Set the value according to the actual requirement

Image---OSD Settings



"Camera Name" can be set according to the requirement, and choose to display name, date and week or not.

Time Format	24-hour、12-hour					
Date Format	YYYY-MM-DD、MM-DD-YYYY、DD-MM-YYYY、					
	YYYY MM DD、 MM DD YYYY、 DD MM YYYY、					
	YYYY/MM/DD、MM/DD/YYYY、DD/MM/YYYY					
Display Mode	Not transparent& flashing、 Not transparent& Not flashing					
OSD Size	Auto、16*16、32*32、48*48、64*64					
050 5120	Autor 10 107 32 327 48 487 04 04					

After modifying the parameters, click Save to save the settings.

Live View	Playback	Log	Configuration	💄 admin 🛶 Logo
Advanced Configuration Local Configuration			Privacy Mask	
System Network Video/Audio	2014-03-0	04 12:13:35		
Image				
SecurityEvents				
 Storage 			nh 01	
				Save

At most four lines of text can be overlaid on the image screen.

Enter the required characters in the text line and check the corresponding text line number, then the required characters can be previewed on the image screen. Drag the characters through the mouse to the required display position and

click Save to save the settings.



Users can set four privacy mask areas at most.

Security---User

Advanced Configuration × Local Configuration System Network Video/Audio No. User Name Level Madministrator Security Events 	Live View	Playback		Log	Configu	uration	💄 admin 🛶 Log
Add Modify Delete O Network No. User Name Level Video/Audio 1 admin Administrator Image Security Events Image	^{SAdvanced Configuration}	User RTS	P Authentication	Anonymous Visit	IP Address F	Filter	
Image Image Security Events							Add Modify Delete
 Image Security Events 	Network	No.	User Name			Level	
 Security Events 	O Video/Audio	1	admin			Administrat	tor
© Events	Image						
	Security						
	 Events 						
Storage	 Storage 						

The current user is admin, the user can set up 31 users at most.

Add: click Add to get in the add user screen and enter the username and password . "Level" can choose "Operator" or "User". Then set up the "basic permission" and "camera configuration" of the add user.

Add user					
User Name					
Level	Operator •				
Password					
Confirm					
Basic Permission		Camera Configuration			
Remote: Parameters	Remote: Live View				
_					
Remote: Upgrade / Fo	Remote: Manual Record				
Remote: Two-way Aud	Remote: Playback				
Remote: Shutdown / R					
Remote: Notify Surveil					
Remote: Video Output					
Remote: Serial Port Co	ontrol				
	🔔 User Name cannot be empty.	OK Cancel			
Modify: Select the us	ser that needs to be modified	and click Modify . O			
screen. vou can mod	ify "User Name" , "Passwor	d"、"Level". For the ad			

modified users, you can set up the "basic permission" and "camera configuration". Delete: Select the user that needs to be modified and click Delete, then click "confirm" to delete the user.

Security—RTSP Authentication

1	Live View		Playback		Log	Configuration	💄 admin 🛶 Logou
<i>₿</i> A	dvanced Configur	ation ~	User RTSP A	uthentication	Anonymous Visit	IP Address Filter	
	Local Configurat	tion					
	System		Authenticati	on	basic	٣	
	Network						
	Video/Audio						Save
	© Image						
	Security						
	© Events						
	Storage						

The authentication is "disable" or "basic" as optional.

"disable": close RTSP authentication.

"basic": enable RTSP authentication and need to carry the authentication information when send RTSP require to the IP camera at the moment.

After modifying the parameters, click Save to save the settings.



Enable Motion Detection means to enable motion detection function.

Area Settings: click Draw Area, click the left mouse on the screen and drag the mouse, then release the mouse and complete a drawing area.

You can draw 8 areas at most, when all the drawing areas are finished, click

Stop Drawing to finish drawing.

> Clear All to remove all the drawing areas.

The sensitivity is settable.

Click


"arming schedule" shows the arming time of the current motion detection.

Click Edit	to edit	the arming sch	edu	ıle.		
Edit Schedule Time	÷					
Mon Tue	Wed Thu	Fri Sat Sun				
Period	Start Time			End Time		
1	00:00			24:00		35 1
2	00:00			00:00		345 345
3	00:00		분	00:00		3K
4	00:00		25	00:00		3 <u>1</u> 6
5	00:00			00:00		迷
6	00:00			00:00		法
7	00:00		분	00:00		
8	00:00		문	00:00		3K
Copy to Week ✓ Mon □ Tue		📄 Fri 📄 Sat 📄 Sun		Сору	ОК	Cancel
After modifyin	g the para	meters, click	Sa	ve t	o save the	settings.
Linkage Method						
Normal Linkage		Other Linkage				
Notify Surveillance	Center	Trigger Alarm Output 🔲 Sel	ect All		1	
Send Email		A->1				
Upload to FTP						

Linkage method includes normal linkage and other linkage. For normal linkage, there are "notify surveillance center", "send email", "upload to FTP", "trigger channel". Users can choose corresponding alarm output channel.

After modifying the parameters, click Save to save the settings. Note: "audible alarm" is only supported with the local audible alarm device, please refer to the specific models.

🔲 Trigger Channel

Live View	Playback	ayback Log		Configuration	on	💄 admin 🛶 Logou
Advanced Configuration		Video Tampering	Alarm Input	Alarm Output	Exception	
 Local Configuration System 		o Tampering				
Network	Area Settings					
© Video/Audio	170		and the	11		
© Image	2014-03-0	4 17:35:14	L BOUL			
Security	all.		/			
Events	44	1 22 1	M			
Storage				T		

Enable Video Tampering means to enable video tampering function.

Area Settings: click Draw Area, click the left mouse on the screen and drag the mouse, then release the mouse and complete a drawing area.

You can draw 8 areas at most, when all the drawing areas are completed, click

Stop Drawing to finish drawing.

Click Clear All to remove all the drawing areas.

Sensitivity: the sensitivity level can be set to low $\sqrt{100}$ medium $\sqrt{100}$ high, the level is increasing in turn.

After modifying the parameters, click

to save the settings.

Live View	Playback		L	_og		Conf	igurati	ion					admin	🛶 L
Advanced Configuration	Motion Detection	Vide	o Tamp	ering A	Jarm Input	Alarm	Output	Exce	ption					
Local Configuration						l								
© System	Alarm Input	No.		A<-1			•							
Network	Alarm Name	•						(cannot	copy)					
O Video/Audio	Alarm Type			NO			•							
Image														
Security	Arming Sch	edule												
Events										Edit				
Storage										Edit				
	0	2	4	6 8	10	12 14	16	18	20	22 24				
	Mon													
	Tue													
	Wed													
	Thu													
	Fri													
	Sat													
	Sun													
alarm input			car	n set	"Ala	arm	Inp	ut N	No.'	, , , , , , , , , , , , , , , , , , ,	 'Ala	rm	Nam	ne"
-	17 414		1		"Ala the		-				'Ala	rm	Nam	ıe"
-	17 414	t	1				-				'Ala	rm	Nam	ıe"
-	Click Edit	t	1		the		-				'Ala	rm	Nam	ne"
-	Edit Linkage Method	i i	tc	o edit	the	arm	ing				'Ala	rm	Nam	ne"
-	Linkage Method Normal Linkage	i i	tc	o edit	the	arm	ing				'Ala	rm	Nam	ie"
-	Linkage Method Normal Linkage Notify Surveilla	ance Cer	tc	Other Lini	c the kage larm Output	arm	ing				'Ala	rm	Nam	ie"
-	Linkage Method Normal Linkage Notify Surveilla Send Email	ance Cer	tc	Other Lini Trigger A @ A>1	age larm Output	arm	ing				'Ala	rm	Nam	ne"
-	Linkage Method Normal Linkage Notify Surveilla Send Email Upload to FTF	ance Cer	tc	Other Lini Trigger A @ A->1 PTZ Link	kage larm Output	arm	t All		edu		'Ala	rm	Nam	ne"
-	Linkage Method Normal Linkage Notify Surveilla Send Email Upload to FTF	ance Cer	tc	Other Lini Trigger A @ A>1 PTZ Link @ Prese	kage larm Output ing et No.	arm			edu •		'Ala	rm	Nam	າe"
-	Linkage Method Normal Linkage Notify Surveilla Send Email Upload to FTF Trigger Chann	ance Cer	tc	Other Lini Trigger A	kage larm Output ing et No.	arm	t AII		edu •		'Ala	rm	Nam	ne"
-	Linkage Method Normal Linkage Notify Surveilla Send Email Upload to FTF Trigger Chann	ance Cer	tc	Other Lini Trigger A	kage larm Output ing et No.	arm	t AII		edu •		'Ala	rm	Nam	ie"
alarm input arm Type". C	Linkage Method Normal Linkage Notify Surveilla Send Email Upload to FTF Trigger Chann Copy to Alarm	ance Cer	tc	Other Lini Trigger A	kage larm Output ing et No.	arm	t AII		edu •		'Ala	rm	Nam	ie"
-	Linkage Method Normal Linkage Notify Surveilla Send Email Upload to FTF Trigger Chann	ance Cer	tc	Other Lini Trigger A	kage larm Output ing et No.	arm	t AII		edu •		'Ala	rm	Nam	ne"
-	Linkage Method Normal Linkage Notify Surveilla Send Email Upload to FTF Trigger Chann Copy to Alarm	ance Cer	tc	Other Lini Trigger A	kage larm Output ing et No.	arm	t AII		edu •		'Ala	rm	Nam	ne″

Linkage method includes normal linkage and other linkage. For normal linkage, there are "notify surveillance center"、"send email"、"upload to FTP"、"trigger channel". For other linkage, there are "trigger alarm output" and "PTZ Linking". "Copy to alarm" to copy alarm input configuration parameters to other alarm input channel.

After modifying the parameters, click Save to save the settings. Note: Users need to restart the IP camera after modifying the status parameters of the alarm. "audible alarm" is only supported with the local audible alarm device, please refer to the specific models.

Live View	Playback			Log			C	onfig	jurati	on				2	admin	i 🛶 Logo
Advanced Configuration ~	Motion Detect	tion	Video T	ampe	ering	Alarm	n Input	Ala	arm O	utput	Exc	eption	I			
Local Configuration					_											
System	Alarm Ou			A->	>1				•							
Network	Alarm Na	me								canno	ot copy)				
Video/Audio	Delay			5 s					•							
Image	Arming S	chod	de													
Security	Arming 5	cheu	ule								_					
Events												Ed	it			
Storage	0	2	4	6	8	10	12	14	16	18	20	22	24			
	Mon											E E	T			
	Tue															
	Wed												+			
	Thu															
	Fri												+			
	Sat												+			
	Sun												+			
	Sun			11												
	O															
	Copy to A	uarm														
	Select	All														
	<i></i>															

"Alarm output": users can choose the corresponding alarm output channel. "Alarm Name": according to the need to set, the name can't be copied.

"Delay": it means the duration time after the alarm. The optional time are 5s, 10s, 30s, 1min, 2min, 5min, 10min or manual.

Click Edit to edit the arming schedule.

"Copy to alarm" to copy alarm input configuration parameters to other alarm input channel.

After modifying the parameters, click

Save

to save the settings.

Live View	Playback	Log	Co	onfiguration		💄 admin 🛶 Logo
Advanced Configuratio	Motion Detection	Video Tampering	Alarm Input	Alarm Output	Exception	
Local Configuration	Exception Ty	be HDD Fu		T		
System	Exception Ty			-		
Network	Normal Linka	ge	Other Link	age		
Video/Audio	Notify Surv	eillance Center	Trigger Ala	arm Output 🗌 Se	elect All	
Image	Send Ema	il	□ A->1			
Security						
Events						Save
Storage						

"Exception Type": there are "HDD Full", "HDD Error", "Network disconnected", "IP Address Conflicted" and "Illegal Login" to choose.

"Normal Linkage": there are "Notify Surveillance Center" and "Send Email" to choose.

"Other Linkage": choose the corresponding alarm output channel.

After modifying the parameters, click Save to save the settings. Note: "audible alarm" is only supported with the local audible alarm device, please refer to the specific models.

Storage---Record Schedule

	Playback	Log	Config	guration		🚨 admin 🛶 Logout
Advanced Configuration ~	Record Schedule	Storage Managem	ent NAS Snapsho	ot		
 Local Configuration System Network Video/Audio Image Security Events 	Pre-record Post-record Overwrite	5s 5s Yes		V V	Edit	
Storage	0 Mon Tue Wed Thu Fri Sat Sun					 Continuous Motion Detection Alarm Motion Alarm Motion & Alarm Other

"Pre-record": it is the prerecording time before video recording.

"Post-record": it is the delay time of video recording.

Tenable Record Schedule and click Edit to edit the record schedule. Choose the periods and type of recording.

t Schedule								
Mon All D ©Cust	ay Continuous T	un						
Period	Start Time	End Time	Record Type					
1	00:00	00:00	Continuous •					
2	00:00	00:00	Continuous •					
3	00:00	00:00	Continuous •					
4	00:00	00:00	Continuous 🔻					
5	00:00	00:00	Continuous •					
6	00:00	00:00	Continuous •					
7	00:00	00:00	Continuous •					
8	00:00	00:00	Continuous •					
	Veek Select All	Sun Copy	OK Cancel					

User can choose "All Day" or "Customize". For "Customize", users can choose specific recording period. It supports four recording periods for each day. "Record Type" : there are "continuous", "motion detection", "alarm", "motion lalarm", "motion & larm".

After modifying the parameters, click Save to save the settings. Note: The longest prerecording time on the basis of 2Mbps, choose higher according to the streams, the shorter the prerecording time.

Live View	Playback		Log Configura		ration		<u></u> a	dmin 🛶 L
Advanced Configuration	Record Schedule	Storage Ma	nagement	NAS Snapshot				
Local Configuration								
System	HDD Device L	ist						Format
Network	HDD No.	Capacity	Free space	Status	Туре	Property	Progress	
Video/Audio								
Image	Quota							
 Security 	Max.Picture C	apacity	0.00GB					
O Events	Free Size for I	Picture	0.00GB					
Storage	Max. Record (Capacity	0.00GB					
	Free Size for I	Record	0.00GB					
	Percentage of	fPicture	25		%			
	Percentage of	fRecord	75		%			
								Save

Storage management is used to not only check the capacity and status of storage mediums, but also format the storage mediums.

Storage---NAS

Live View	Playback	Log	Configuration	💄 admin 🛶 Log
Advanced Configuration	Record Schedule	e Storage Management	NAS Snapshot	
Local Configuration				
System	HDD No.	Туре	Server Address	File Path
O Network	1	NAS		
Video/Audio	2	NAS		
○ Image	3	NAS		
 Security 	4	NAS		
© Events	5	NAS		
	6	NAS		
Storage	7	NAS		
	8	NAS		

Through the server address and file path of NAS, data can be stored in the network disk.

"server address" is the IP address of network dish.

"file path" is the file path in the network dish.

After modifying the parameters, click Save to save the settings. Note: Need to restart the IP camera after modifying or configuring parameters of network disk.

Events---Snapshot

Live View	Playback	Log	Configuration	🚨 admin 🛶 Logout
2		01		
🖗 Advanced Configurati	ion Y Record Schedule	Storage Management	NAS Snapshot	
Local Configuration				
System	Timing			
Network	Enable Tir	ning Snapshot		
O Video/Audio	Format	JPEG	¥	
Image	Resolution	1280*720	T	
 Security 	Quality	High	T	
© Events	Interval	0	millisecon	d V
Storage	interval	0	miniocoon	
	Event-Trigger	ed		
	Enable Ev	ent-Triggered Snapshot		
	Format	JPEG	T	
	Resolution	1280*720	¥	
	Quality	High	•	
	Interval	0	millisecon	d 🔻
	Capture Num	ber 4		
				Save
				Calc

Through snapshot parameters configuration, the device can automatically snapshot.

There are two snapshot ways of "timing" and "event-triggered" to choose.

After modifying the parameters, click Save to save the settings. Note: For the event-triggered, users can choose the capture number from 1 to 120.



•LANGUAGE



The language for the on-screen menus is Selectable. To change the display language: Click IRIS + to enter and click up or down button to select.

All on-screen menus are changed to the selected language.

•SYSTEM INFORMATION

MAIN MENU

LANGUAGE :ENGLISH < INFORMATION> <DOME SETTINGS> <MOTION> RESTART FACTORY DEFAULTS



EXIT

BACK

The user can check the dome system information as required. The system information includes: Dome ID, dome address, baud rate, protocol, temperature, voltage, alarm information, dome title, version, date, time, and temperature scale.

Use the following steps to display the System Information screens:

- 1) Move the cursor to "INFORMATION".
- 2) Click IRIS + to enter, the INFORMATION screen opens.
- 3) Click up or town to select the item.
- 4) Click IRIS + to confirm the setup of each item.

•IR LED



The user can open and close the IR LED manually and set up the IR LED work mode under this OSD mean. (suitable for speed dome with IR Led):

1) CONTROL MODE:

AUTO	IR LEDs turn on or off automatically according to light conditions
TIMING	LED is adjusted according to Open and Close Time.
OPEN	IR LED forcedly open
CLOSE	IR LED forcedly close
CAMERA	IR LED status (Open/Close) will be synchronized with Camera
	day and night switching

2) SENSITIVIRY:

Here the user can manually set the sensitivity from 1-5. The smaller the number is, the lower light of the environment will be when the IR LED on.

3) NEAR POWER COMPENSATION: set the near power

compensation at 10%、20%、30%、40%、50%, when near power opens, far power opens according to the power setting.

4) **AUTO CONTROL:** When it is on, the IR LED will turn its power consumption to the standby status which will effectively extend the service life of IR LEDs. And under this mode, when objects appear in the screen, the IR LED will turn its power consumption back to the normal status.

• WIPER



The user can make adjustment for the wiper under this menu (suitable for wiper-equipped dome)

- Numbers : Move the cursor to "NUMBER" and click IRIS + to enter the setup of Wiper Number. Click the up or down button to select number (1-10),then click IRIS + to confirm.
- 2) Speed: Move the cursor to "SPEED" and IRIS + to enter the setup of Wiper speed. Click the up or down button to select "HIGH", "MID "OR " LOW", then click IRIS + to confirm.
- 3) **Reset:** Move the cursor to "RESET" and click IRIS + to reset wiper.
- 4) **Activate:** Move the cursor to "ACTIVATE" and click IRIS + activate the wiper.

Note: Calling the preset number of 71 can also enable the wiper.

• IDLE



IDLE setting means if there is no command for the dome for a period of time, the dome will run the actions as defined.

1) **TIME:** Move the cursor to "TIME" and click IRIS + to enter, and click up or down button to select among 30 sec, 1 min, 5 min, 10 min and 30 min. And click IRIS + to confirm.

2) **ACTION:** Move the cursor to "ACTION" and click IRIS + to enter. Click up or down button to select the actions including" NONE, PRESET, SCAN, SEQUENCE, PATTERN. Click IRIS + to confirm.

•ALARM

MAIN MENU

LANGUAGE :ENGLISH < INFORMATION> COME SETTINGS> <MOTION> RESTART FACTORY DEFAULTS

EXIT DOME SETTINGS <IR LED> <WIPER> <IDLE> C≩<ALARM> <ADVANCED> <OTHERS> EXIT BACK ALARM SETTING ∠ ALARM NO. :1 CONTACT :N/O ALARM MODE : OFF ACTION :NONE ALARM OUT : OFF **RESET DELAY : 10 SEC** EXIT BACK

The dome system has 7alarm inputs and 1 alarm output. (optional function). When an alarm is received, an input signal to the dome triggers the user defined action (such as presets, patterns, etc.), and at meantime the alarm output signals is activated.

ALARM NO.: Move the cursor to ALARM NO.. Click Iris + to enter and click up or down button to select the alarm input no. (Channel 1 and Channel 2)

INPUT STATE: Set the alarm contact status. There are two input states, OPEN and CLOSE.

ALARM MODE:

OFF	Alarm function is deactivated.
ON	Alarm function is activated.
AUTO	AUTO Alarm function will be activated and deactivated
	between START TIME and STOP TIME.

ACTION: Set the alarm action:

NONE	(default) No action
PRESET	Dome goes to preset. (Default as Preset 1)
SCAN	Dome starts auto scan (Default as Auto Scan 1)
SEQ	Dome runs auto cruise (Default as Auto Cruise 1)
PATTERN	Dome runs pattern (Default as Pattern 1)

ALARM OUT: Move the cursor to ALARM OUT. Click IRIS + to enter and click up or down button to select alarm output channels among "OFF" "OUTPUT1" "OUTPUT2" "ALL", which is used to set linkage alarm output switch after receiving effective alarm input signals.

RESET DELAY: Move the cursor to the ALARM OUT. Click IRIS + to enter and click up or down button to select reset delay among "10SEC" "30SEC" "1MIN" "5MIN" "10MIN".Which means the time of the speed dome from detecting alarm signals to alarm reset and return to normal. The setting is valid under AUTO ALARM MODE. •AUX



The user can set up the auxiliary output to trigger other devices from an alarm or a controller.

Move the cursor to AUX and click IRIS + to enter and click up or down button to select "ON" "OFF", then click IRIS + to confirm.

•SOFT LIMIT



The user can set up the soft limit to define the left and right boundaries for the pan movement.

SOFT LIMIT: Move the cursor here and click IRIS + to enter. Click the up or down button to select "ON" or "OFF" to enable or disable this function.

LEFT LIMIT: Move the cursor here and click IRIS + to enter. to control the PAN movement of the dome to a defined position for the left limit. Click IRIS + to confirm.

RIGHT LIMIT: Move the cursor here and click IRIS + to enter to control the PAN movement of the dome to a defined position for the right limit. Click IRIS + to confirm.

LIMIT DELETE: Move the cursor here and click IRIS + to delete all the settings.

•DOME SPEED



To make a selection of the dome speed, the user can enter this menu to set up.

Move the cursor to DOME SPEED and click IRIS + to enter to select the dome speed when doing the pan movement.

Move the cursor to BACK/EXIT and click IRIS + to run the command of BACK or EXIT.

• POWER ON ACTION



The user can define the dome action when power on, Move the cursor to POWER ON ACTION and click IRIS + to enter the mode of setup.

NONE	(default) No action
PRESET	Dome goes to preset. (Default as Preset 1)
SCAN	Dome starts auto scan (Default as Auto Scan 1)
SEQ	Dome runs auto cruise (Default as Auto Cruise 1)
PATTERN	Dome runs pattern (Default as Pattern 1)

•TILT ANGLE



The user can set up the tilt angle under the menu of TILT ANGLE.

Move the cursor to "TILT ANGLE" and click IRIS + to the setup of tilt angle . Click the up or down button to select the angle and click the IRIS + to confirm.

OTHERS



The user can set up TEMP MODE, INTERNAL FAN, PRESET FREEZE, STOP TIME. MENU OFF TIME and NORTH ZERO here under the menu of "OTHERS"

TEMP MODE: To set up the control mode of dome fans and heaters. It includes three modes of AUTO, FAN HIGH SPEED and FAN LOW SPEED.

AUTO FLIP: When the camera tilts downward and goes just beyond the vertical position, the camera will rotate 180 degrees. The user can click IRIS + to enter and choose to turn on/off this function.

MENU OFF TIME: To set up the time that OSD menu be off when no operations. Options include 1/2/5/10 min.

AZUIMUTH ZERO: To set up the due north of the dome (pan 0^o)

Move the cursor here and click IRIS + to enter. Click the up or down button to control the dome to pan 0^o and click IRIS + to confirm. • PRESET



The dome supports 220 presets. Please check the following steps to set up a preset.

- PRESET NO.: Move the cursor here and click IRIS + to enter the setup of Preset Number. Click the up or down button to select a preset number (1-64 and 100-255) and click IRIS + to confirm.
- 2) **TITLE:** Move the cursor here and click IRIS + to enter the setup of Preset Title. Check the detailed above in DOME TITLE settings.
- 3) **SET>:** Move the cursor here and click IRIS + to enter. Move the dome to a defined position as preset point and click IRIS + to save the preset position.
- 4) **CALL:** Move the cursor here and click IRIS + to call up the current preset.
- 5) **DELETE:** Move the cursor here and click IRIS + to delete the current preset.
- 6) **SPEED:** Move the cursor here and click IRIS + to set up the preset call up speed of LOW, MID and HIGH.

•AUTO SCAN



The dome supports 8 groups of auto scan. Please check the following steps to set up a scan.

- 1) **SCAN NO.:** Move the cursor here and click IRIS + to enter the setup of SCAN Number. Click the up or down button to select a preset number (1-8) and click IRIS + to confirm.
- 2) **TITLE:** Move the cursor here and click IRIS + to enter the setup of SCAN Title. Check the detailed above in DOME TITLE settings.
- <LEFT LIMIT>: Move the cursor here and click IRIS + to enter. Move the dome to a defined position as left limit and click IRIS + to save this left boundary.
- <RIGHT LIMIT>: Move the cursor here and click IRIS + to enter. Move the dome to a defined position as right limit and click IRIS + to save this right boundary.
- 5) **START:** Move the cursor here and click IRIS + to start the current scan.
- 6) **SCAN SPEED:** Move the cursor here and click IRIS + to set up the scan speed ranging 1-30.

•AUTO CRUISE(SEQUENCE)



The dome supports 8 groups of auto cruise and each cruise supports 32 presets. . Please check the following steps to set up cruise.

- SEQ NO.: Move the cursor here and click IRIS + to enter the setup of Sequence Number. Click the up or down button to select a preset number (1-8) and click IRIS + to confirm.
- 2) **TITLE:** Move the cursor here and click IRIS + to enter the setup of Sequence Title. Check the detailed above in DOME TITLE Settings.
- SEQUENCE SET>: Move the cursor here and click IRIS + to enter. Move the cursor to EDIT and click IRIS + enter edit mode of sequence. Move the left and right button to select each item.
 - a) When the < > is on the item NO., move the up or down button to select the Serial NO. of the preset in a sequence. There are up to 32 presets in each sequence.
 - b) When the < > is on the item PRESET, move the up or down button to select the preset NO. that the user wants to add in the sequence.
 - c) When the < > is on the INTERVAL, move the up or down button to select the interval time between each preset.
 - d) When the < > is on the last item, move the up or down button to select edition mode as "INS (insert)", "ok" and "delete".

Click IRIS + when selecting INS to insert the settings into the position of current Serial No.

Click IRIS + when selecting OK to override the settings of Current Serial No.

Click IRIS + when selecting delete to delete the settings of the Current Serial No.

Click IRIS + to save all the setting and click IRIS CLOSE to exit.

4) **DELETE/START:** Move the cursor here and click IRIS + to delete/start the current sequence.

PATTERN TOUR

MAIN MENU LANGUAGE : ENGLISH <SYSTEM INFORMATION> <DISPLAY SETUP> <DOME SETTINGS> <CAMERA> C = <MOTION> RESTART FACTORY DEFAULTS EXIT MOTION <PRESET> <SCAN> <SEQUENCE> () PATTERN> <ZONES> <TIMING ACTION> <MOTION DETECT> <AUTO TRACKING> BACK EXIT ₽ PATTERN PATTERN NO. :1 TITLE : PATTERN 1 START <SET> DELETE BACK EXIT

The dome supports 4 pattern tours and each pattern cover at most 10 Minutes of 500 commands. Please check the following steps to set up a pattern.

- PATTERN NO.: Move the cursor here and click IRIS + to enter the setup of Pattern Number. Click the up or down button to select a pattern number (14) and click IRIS + to confirm.
- 2) **TITLE:** Move the cursor here and click IRIS + to enter the setup of Pattern Title .Check the detailed above in DOME TITLE settings.
- 3) **SET**: Move the cursor here and click IRIS + to enter. Click the dome up/down/left/right, make the zoom in/out and click IRIS + to save the pattern tour.
- 4) **START:** Move the cursor here and click IRIS + to start the current pattern tour.
- 5) **DELETE:** Move the cursor here and click IRIS + to delete the current pattern tour.

•AUTO TRACKING



Under the auto tracking mode, the dome will auto track the moving objects entering the scene. When the object is moving out of the scene, the dome will return to a preset position as defined after the defined time.

SENSITIVITY: The user can set up the auto tracking sensitivity under this menu. When set as LOW, the dome will do auto tracking when obvious object entering the screen. When set as HIGH, the dome will do auto tracking when small object moving into the screen. Move the cursor there and click the IRIS + to enter. The options include: LOW, MID and HIGH.

TARGET: To set up the size of the tracking object. The options include Large. MID and SMALL.

AUX: If set "ON" here, the object auto tracking will activate alarm aux output at the same time. Click IRIS + to enter to select "ON" or "OFF"

ZOOM MATCH: Under the auto tracking model, if turn on the function of ZOOM MATCH, the dome will do zooming in and out during auto tracking to keep the right proportion between the object and background. Move the cursor there and click the IRIS + to enter. And click the up or down to select the optical zoom.

ENABLE: Move the cursor here and click IRIS + to enter to select "ON" or "OFF" to enable or disable this function.

• RESTART

MAIN MENU

LANGUAGE :ENGLISH < INFORMATION> <DOME SETTINGS> <MOTION> FRESTART FACTORY DEFAULTS



WARNING

TRACKING SCENE SET: Here the user can set up the scene that the dome will get back to when finishing the action of auto tracking. Move the cursor here and click IRIS + to enter. Move the dome to the wanted scene and click IRIS + to confirm.

DELETE: Move the cursor here and click IRIS + to delete the return scene.

RETURN DELAY: To set up the time that dome will waiting to return to this scene.

RESTART:The dome allows the user to reset its settings remotely under this menu.

Move the cursor here and click IRIS + to enter.

Select "OK" or "CANCEL" to continue the reset or cancel the reset.

•FACTORY DEFAULTS



FACTORY DEFAULTS will allow the user to recover all the setting to factory default setting.

Move the cursor here and click IRIS + to enter. Select "OK" or "CANCEL" to continue the reset or cancel the reset.

SAfter- sales service

For speed dome production in our company, our company promises one year warranty. Under warranty, maintenance service is provided for free. But for the *following situations,* material and manual cost need to be paid.

• Don't operate in accordance with 《User's Manual》 to cause damage.

- •The damage caused by force majeure factors such as lighting and fire, etc
- •The damage caused by other manufacturer' poor design and matching problem

***The Company Statement**

•Because our company continuously adopt new technologies, product parameters change without prior notice.

•The final interpretation of operation instructions belong to our company.

6 APPENDIX: Lighting and surge protection

This product USES the gas discharge tube of TVS diode and protection circuit, can effectively prevent the 3.0 kV following transient lightning and surge lamp all types of pulse signal to the damage of equipment. But, for outdoor installation according to the actual situation on the premise of guarantee the electrical safety to do the necessary protective measures:

•Signal transmission line must be with the high voltage equipment goods between high voltage cable to keep a distance of at least 50 meters

•Choose as far as possible outside wiring along the roof line

•For open field must adopt sealing pipe buried wiring way, and the steel pipe by one-point earthing, absolutely forbidden by wiring overhead way

•In strong thunderstorms or high induction voltage region (e.g., high voltage transformer substation), must be taken to add extra high power lightning protection equipment and installation of lightning rod and other measures

•Lightning protection and grounding design of outdoor installation and wiring must be combined with the construction of lightning protection requirements into consideration, and conform to the requirements of relevant national standards and industry standards.

•The system must be equipotential grounding. Grounding device must meet the system anti-interference and electrical safety requirements, and shall not be short term or mixed with strong power grid zero line. System separate grounding, grounding resistance is not greater than 4Ω .



