High Definition Intelligent IR IP Auto-tracking Speed Dome Camera

User's Manual

CONTENT

Chapter 1 Precautions

In order to avoid danger and operate the products correctly, please read this manual carefully before installation.

WarningsCautionsWarningsalert the user to avoidthe potential risk of death or seriouscautions alert the user to avoid theinjurydamage

The precaution contains two parts "Warning" and "Note" as following:



• Please use AC 24V power supply meeting SELV(Safety Extra Low Voltage) and in accordance with IEC60950-1 compliance with Limited Power Source

• Please contact nearest distributor or service center if the products don't work properly, do not remove or modify the device in any way (unauthorized modification or repair problems caused by your own risk).

- Please don't expose the indoor product to rain or moisture.
- The installation should be performed by professional staff, and comply with local regulations.
- Please mount easily using power protection device in the wire installation.
- Please make sure the connection can withstand at least 50 Newtons vertically downward pull.



• Please check if the power supply is correct.

• In transportation and storage process, please prevent stress, severe vibration and immersion to avoid any damage

• Please don't touch the image sensor and housing directly, if necessary, please gently clean with alcohol dampened.

• Please don't touch the cooling components directly, in order to avoid burns.

• Please don't focus aligned glare (such as lighting, sunlight, etc.), otherwise it will easily lead to too bright or pull light phenomena, also affect the image sensor life.

• The laser beam may burn the image sensor, so when it is used, please don't expose the image sensor in laser beam.

• Please don't put it in the damp, dusty, extreme heat, extreme cold, strong electromagnetic radiation places.

• Please make sure the installation location keep enough distance from the electromagnetic

sensitive devices surrounding to avoid electromagnetic interference.

- Please prevent heat buildup and keeping the surrounding ventilation.
- Please prevent the speed dome from water or any liquid.

• The product must be carried by original package, either in delivery to users or in return delivery to the factory for repairing. Otherwise, damage caused in transportation will not be covered by warranty.

• The battery replaced incorrectly will lead to use of exceptions, and we don't recommend users to replace directly; If necessary, please use batteries recommended by the manufacturer (for devices with battery).

• Please don't dismantle internal parts, please turn to qualified maintenance professionals to carry out repairs

• Long-term high speed cruising may cause slip rings broken and belt aging, also affect speed dome life.

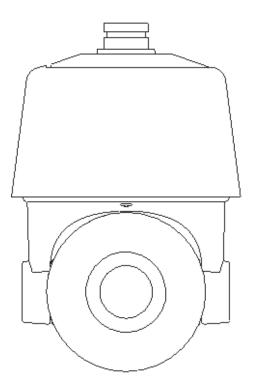
	Speed Dome
Environmental temperature	-40℃~+65℃
Moisture	<95% (Non-condensing)
Atmospheric pressure	86~106KPa
Power	AC24V/2.0A

• Working Environment

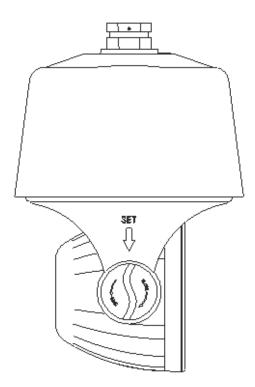
Note: make sure outdoor installation meets water-proof requirements.

Chapter 2 Structure





Side view



Chapter 3 Functions Description

3.1 Features

1. Built-in Decoder

- HD IP Speed Dome, support 720P 25/30fps or 1080P 25/30fps output.
- Support English menu
- Support standard Onvif
- Power-off protection, no data loss
- RJ-45 port network port
- Support PELCO_P,PELCO_D protocols.
- Support 3D location
- Support standby function
- 225 programmable presets
- 8 cruising tracks, each cruising track has 32 preset positions
- 8 auto scan tracks, the left and right boundaries and scan speed can be set
- Support OSD, date and time display
- Support 1 channel alarm input and 1 channel alarm output
- Support TF storage and local capture

2. Integrated Universal Speed Change Rotator

- Manual Speed:0.05°~160°/s, Max speed 240°/s
- 360° continuous pan rotation, tilt -11°~90° auto flip
- Stepless speed change, auto zoom/speed matching
- Classic double bearing structure, more stable operation
- Delicate stepping motor, stable, sensitive and accurate

3. All-weather Outdoor Design

- Sensor intelligent control
- Double housing structure
- IP66 water proof
- Support anti- lightning and anti-surge

4. Camera Module

- Support auto iris, auto focus and auto BLC
- Mini. Illumination 0.5Lux/F1.6(color),0.095Lux/F1.6(B/W)
- Support 3D noise reduction and WDR

5. Network

- Support Ethernet control
- Support remote view and control by browser and client software
- Support Micro SD card
- Support NFS
- Support remote view and control by browser and client software
- Support Micro SD card
- Support for NFS record
- Support four levels user authority
- •Support for authorized users and passwords, support HTTPS encryption and IEEE 802.1x network access control
- \bullet Support dual-stream, support H.264/MJPEG, support multi-level video quality configuration,

and support real-time video output resolution 1080p, 960p and 720p

• Support multiple network protocols, IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP,

TCP / IP, DHCP, PPPoE

6. IR Function

- Mini. Illumination 0Lux
- Adopt array IR, low consumption, IR distance 150m
- IR LEDs and zoom auto match
- Support NFS
- Built-in heat treatment and defog systems
- Constant current circuit design, IR LED life >30,000 hours

3.2 Function Instruction

• Focus/Rotate Auto Match

Speed Dome can auto adjust pan and tilt rotation speed depending on the focus distance.

• Preset Position Setting and Calling

Preset function means the speed dome can memory current pan/tilt angel, focus, zoom, ect. When need, it can be called upon directly. Our speed dome support up to 255 preset positions.

• Auto Scan

Users can set the left and right boundaries by control keyboard. Then speed dome can scan between it. It can set up to 8 groups scan path.

• Auto Cruising

Users can program some preset positions into auto cruising sequence, then the speed dome can track as it. Each cruising tracks has 32 preset positions.

• Pattern Tour

Speed Dome can memory 180s running path. When start pattern tour, speed dome can track as recording path. It supports 4 groups pattern tour.

• Guard Location

The dome will rotate back to preset position after a period of vacant time.

• Power-off Protection

Speed dome can resume operation status before the power-off, no data loss.

3.3 Specification

Specification	Model	HD IP IR Auto-tracking Speed Dome		
	Sensor	1.3M:AR0130-1/3" CMOS	2M:IMX222-1/2.8" CMOS	
Camera	Pixel	1.3M	2.1	
	Image Resolution	Color:0.5 Lux @ (F1.6,50 IRE,ICR close) B/W:0.095 Lux @ (F1.6,50 IRE,ICR open)		

	Resolution	≥720TVL	≥1000TVL
	White Balance	Aut	to / Manual/ATW
	GC		Auto /Manual
	S/N	>50dB	
	Noise Reduction	3D&2D	
	WDR		Support
	Electronic Shutter		/251/10000s
	Day/Night		Auto ICR
	Focus		Auto / Manual
	Focal Length	14.7~84.6mm,20X	4.7~94mm,20X
	Zoom		35
Lens	Horizontal Angle	54.8°-3.4°	55.5°-3.0°
	Near Distance	20~1000mm	
	Iris	F1.6 ~F2.7	F1.6 ~F3.0
	Horizontal Rotation	360° continuous rotation	
	Range		
	Horizontal Speed	$0.05^{\circ} \sim 160^{\circ}/s$ (stepless speed)	
	Vertical Rotation Range	11°~90°auto flip	
	Vertical Speed	0.05°-120°/s	
	Preset		255
PTZ	Auto Cruise	8 group, ea	ch group can set 32 preset
	Auto Scan	Support track, horizontal, vertical, frame, whole view random scan	
	Guard Location	Link pres	et/scan/cruise/pattern
	Power off Memory	P. 00	Support
	Position Information Display	On/Off	

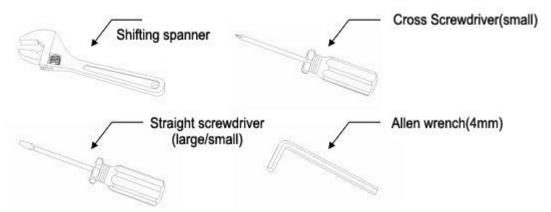
IR	IR Distance	150m			
IK	IR Angle	Zoom matching, far/middle/near			
	Image resolution	1280×960	1920×1080		
	Frame rate	50Hz: 25 fps50Hz:25fps(1920×1080(1280×960)25fps(1280×960)25 fps (1280×720)25fps(1280×720)60Hz: 30 fps60Hz:30fps(1920×1080(1280×960)30fps(1280×960)30 fps (1280×720)30fps(1280×720)			
	Video Compression		H.264/MJPEG		
Network	Audio Compression	G711A/G7	/11U/G726/ADPCM/AAC		
	Network Protocol		S,802.1x, FTP,SMTP,UPnP,SNMP RTSP,RTP,TCP/IP,DHCP,PPPoE		
	Preview Channel		Max 6ch		
	Stream		Triple		
	Authority	32 users, 4 level: administrator, browse, browse+contro browse+control+setup			
	Safe Mode	Authorized user name and password, HTTPS encryption; IEEE 802.1x network access control, IP address filtering			
	Audio Input	Support			
	Audio Output	Support			
	Network	10M/100M			
Interface	TF Card	Support			
	Program	Support standard Onvif			
	Browser	IE8,IE9,IE10,Chrome8+,Firefox3.5+			
	Power	A	C24V 40W max		
	Working				
	Temperature and	-40 ℃-65℃ Humidity<90%			
	Humidity	1	inamuty > 70 /0		
General	Protection Level	IP66,TVS 4	000V lightning protection		
	Dimensions	Φ230	(mm) *350 (mm)		
	Weight		4.8kg		

Chapter 4 Installation Guide

4.1 Preparation

1. Tools:

Please prepare the necessary tools according to specific situations



2. Check installation space and address

Check the space is enough to install the speed dome. The wall must be thick enough to install the

expansion screws and can bear 4 times the weight of the dome camera itself.

3. Please well keep the whole package

After open the package, please well keep them in case need to return to manufacturer if any

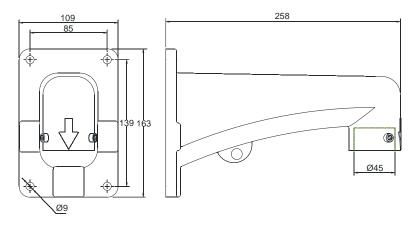
problem.

★Note:The non-original package may lead to damage during the transportation.

4.2 Installation

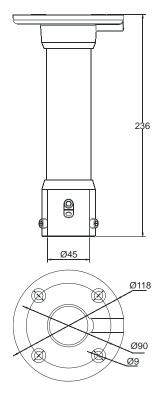
The speed dome supports four types installation as following:

1:Wall mount and dimension:



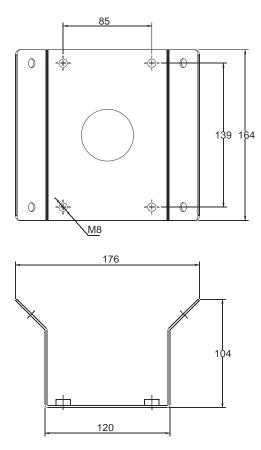
Wall Mount Bracket Dimension

2:Pedant mount and dimension:



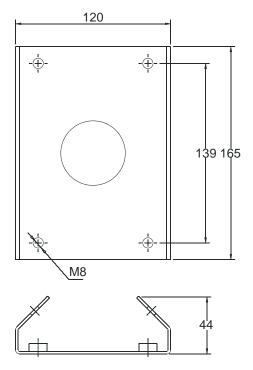
Pedant Mount Bracket Dimension

3:External corner and dimension



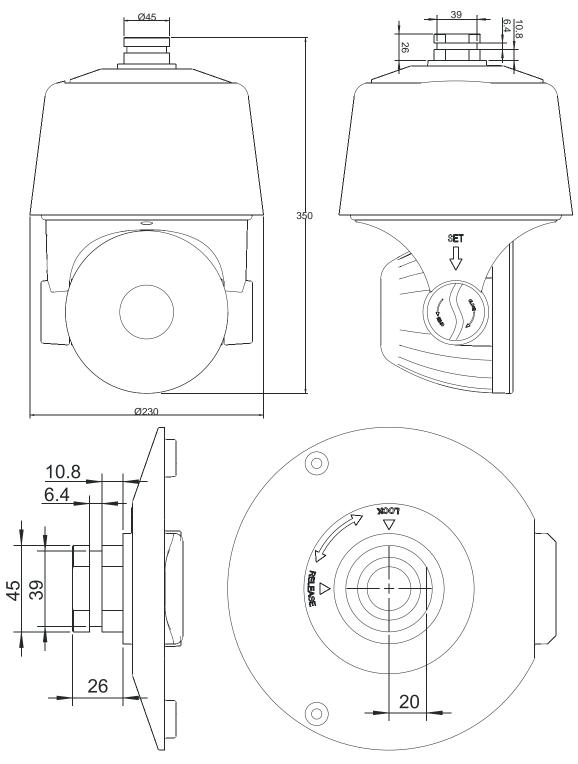
External Corner Bracket and Dimension

4:Pole mount and dimension:

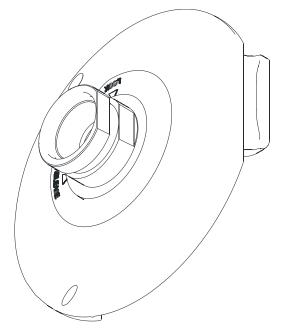


Pole Mount Bracket and Dimension

4.3 Interface Instruction



Speed Dome and Bracket Interface Dimension



Speed Dome and Bracket Interface Perspective Picture

4.4 Installation Procedures (Take Wall Mount as Example)

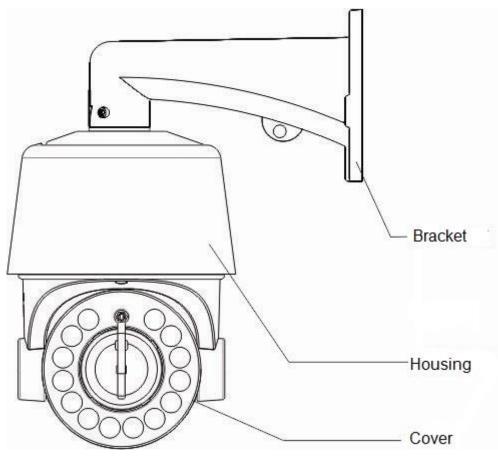


Figure 1

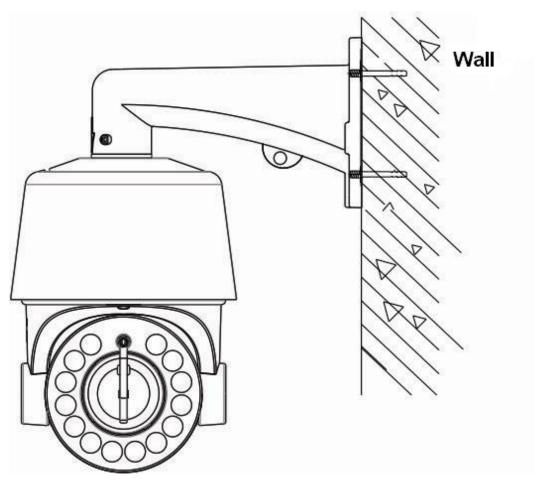


Figure 2

Steps:

Remove the wall mounting bracket and speed dome, and lead the cable through the bracket and set aside to the right position. Aligned the screw holes of speed dome to that of bracket, and use M6 screws to fix. (as Figure 1)

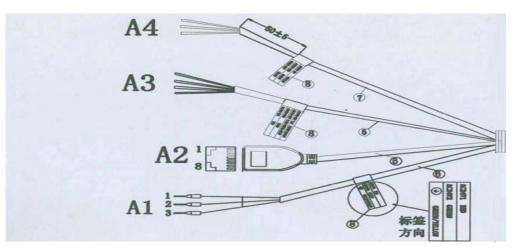
Mark the drill holes position on wall with ink pen for bracket installation, then drill holes and punch the expansion screws in, then fasten the bracket with M8 screws as Figure 2.

Description:

1) The wall must have sufficient load-bearing capacity.

2) Outdoor installation shall be completely sealed moisture; leads cable should closely along the bracket wiring as Figure 1.

4.5 External Cable Connection Instruction

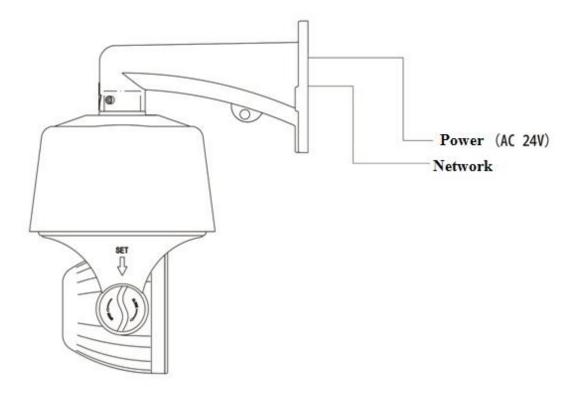


A1: Power Cable:AC/DC24V;

A2: Network: Connect computer or other devices

A3: Audio Cable: Audio input and output can connect mic and speaker

A4: Alarm Cable:Connect external alarm devices;



Note: Please refer to labels on the cables

Chapter 5 WEB Instruction

5.1 System Requirement

The IP speed dome web settings support Windows XP, Win7 system, please make sure right installation and setup of following items:

(1) Display resolution: 1024 * 768 or higher, color: High Color (32-bit).

(2) Please make sure the Windows system install the necessary character style.

5.2 Built-in Web Instruction

When using the network video products for the first time, an ActiveX control is needed. Note: please use IE browser of windows and make sure the version above 6.0. Do not use any other browser except Firefox, Google.

(1) Login IP address and enter to ActiveX download interface.

(2)Download ActiveX and click 【Run】 to install

5.3 Log in

Camera default IP address is:192.168.1.2, please make sure computer and IP camera in the same IP address area.

You need to download Active X plug when first time to use.

NETVIDEO	English
User Name admin Password 🗨 ● ● ●	
Login	

5.4 Preview

Descriptions of live view page



5.4.1 Live View



Descriptions of live view parameters and toolbar

Icon	Description Icon		Description
Major	Major stream		Manual recording on / off,
			and default storage path is
			D\NetVideoBrowser\
Minor	Minor stream		Manually capture, and
Millior			default storage path is
			D\NetVideoBrowser\
3rd Stream	Third stream	K.	Intercom on/off
	Screen lock) .	Full screen
	Screen adapt to current		Audio on, volume adjustment
	resolution		and mute

Note When stream type is **[**Pure Video **]** ,audio preview is invalid.

5.4.2 Video parameter

(1)**<Default>** to resume the default settings.

(2)According to network situation you can choose preview mode from <Low bandwidth>, <Low latency> to <High quality>, <High fluency>

5.4.3 PTZ control

(1)Select rotation direction of speed dome,

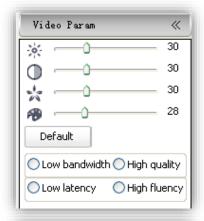


enable auto scan.

- (2)<**Zoom**>Zoom in /Zoom out
- (3)<Focus> Manual Focus.
- (4)<Iris>Manually adjust iris.

(5) set PTZ speed







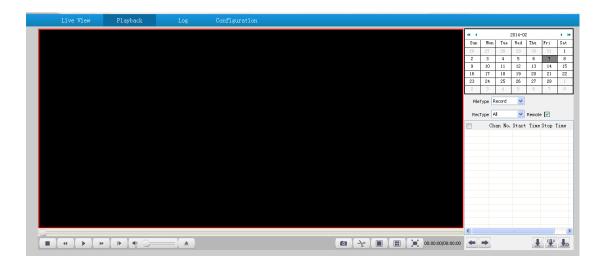


5.4.4 Preset positionSearch the target preset number<Set> Setup preset position

<Call>Call the preset position

5.5 Playback





5.5.1 Search recording files

(1)Select date in the calendar

(2) <File Type> select <Record> or <Picture>

(3)**<Rec Type>** Select targeted file type video/picture.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	- 30	- 31	1
2	3	4	5	в	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	1
2	3	4	5	6	7	8
FileType Record V RecType All V Remote V						
Chan No. Start Time Stop Time					Stop	Tine

con	Description	Icon	Description
	Stop recording	70	Clip video files, and default
		-2-	storage path is
			D\NetVideoBrowser\
	Speed down in		Single screen
	1/2X,1/4X,1/6X and 1/8X		
	Play		Playback in 4 screen at the
			same time
*	Speed up in 2X,4X,6X and 8X		Full Screen
	Playback by frame	Ŧ	Download recording files
	Audio on, volume adjustment	FUP	Download files into FTP
	and mute		server
	Capture, and default storage		Preview download status
	path is D\NetVideoBrowser\	10	

5.5.2 Descriptions of playback toolbar

5.6 Log

(1)<Channel No> Select target channel

- (2) <Log type>
- All/system/warning/alarm/operation/user/others

(3) **<Start time>** Select start date and time.

(4) **<End time>** Select end date and time.

(5) **<Query>** Get a log list.

(6) Check logs by <First page><Pre page><Nextpage><Last page> and <Jump to>target page.

(7)**<Export current page>** to export logs, and default save path is D\NetVideoBrowser.

(8)**<Export all page>** to export all the pages query, and default save path is D\NetVideoBrowser.

Channel No.	Al Channel		Log Type All Ty	pe v
Slat Tine	2014-02-07	00:00	End Time 2004	40-07 🔀 23-59 🗘 Query
No	Channel	Type	Time	Uter Content

Chapter 6 Configuration

Live View	Playback Log	Configuration
Audio Video Set Video Param Audio Param Kon Digital	Video Param Channel No.	Channel 1 Major
Key Region Dome Set VCA	General Set	
OSD Storage Management	Video Quality Stream Type	
 Network Management User Management 	Resolution	
 Alarm Management PTZ Management 	Bit Rate Frame Rate	
Advance Set	Prefer Mode	
	N/P Mode	
	IFrame Rate	
	Advanced Set	
		Save Import Export

Attention: All settings will be enabled in 3 seconds after <save>.

6.1 Audio Video Set

6.1.1 Video Parameter

<Channel No.>Select the target channel

General Set

- (1)<Stream Type><Audio Video>/<Pure Video>
- (2)<Encoding Mode>

<Static code rate> Fix stream and bandwidth occupation.

<Dynamic code rate> Stream will be varied to the change of video, take up less bandwidth when there is no change on video.

(3)<Video Quality>only be activated when choose

<Dynamic code rate> in <Encoding Mode>.

<Video

Quality><Best>,<Better>,<Good>,<Fair>,<Poor>

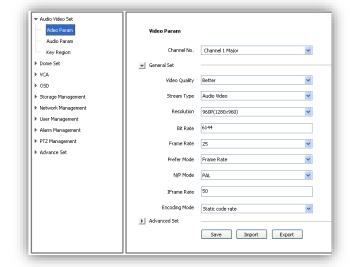
The better quality the more stream and bandwidth occupation.

(4)<**Bit Rate>** show stream rate for the video, unit is Kbps. When choose<**Static code rate>**, <**Bit Rate>**stand for actual rate of the stream. When choose<**Dynamic code rate>**,<**Bit Rate>**show the max stream rate, range from 32 ~ 8000Kbps.

(5)**<Frame Rate>** 1/5/10/15/25/30fps optional.

(6)**<I Frame Rate>** To set the interval time for each two I frame. (I frame is the key frame in the video stream)

(7)<Prefer Mode>



<**Frame Rate>** Fluency first <**Quality>** Video quality first (8)<**Resolution>** 4CIF/VGA/720P/960P/1080P. (9)<**N/P Mode>** Select <**PAL>** or<**NTSC>**.

Advance Set

(1)<Video Encoding>

<H.264> and <Motion JPEG>

(2)<Extended Code>

Available when selected **<H.264>**, there are **<baseline>**, **<main profile>**, **<high profile>** for selection.

(3)**<Encrypt Type>** Add password for the channel.

<Encrypt Password> Enter password.

<**Password Confirm>** Confirm the password. Click<**Save>**to enable.

Video Parameter-Export

<**Export>** backup the configuration file, save to D\NetVideoBrowser\VideoParam.dat as default.

Video Parameter-Import

<Import> import the backup file for parameter configuration.

Audio Parameter

setting.

(1)<Channel No.>select target audio channel.

(2)<**Audio Encoding>** select audio compression type.

Note: some models need reboot after saving the

(3)<Audio Sample Rate>

<8k>,<32k>,<64k> optional.

(4)**<Save>** save and enable the setting.

	▼ Audio Video Set		
	Video Param	Audio Param	
	Audio Param		
I.	Key Region	Channel No.	Channel 1
II.	Dome Set	Audio Encoding	G.711A
	▶ VCA	Audio Sample Rate	8k.
	▶ OSD	Hould Sample Race	ON V
I.	Storage Management		Save
	Network Management		
II.	User Management		
	Alarm Management		
	PTZ Management Advance Set		
II.	P Auvance sec		
II.			
II.			
II.			
I.			
I.			

✓ Audio Video Set		
Video Param	Video Param	
Audio Param		
Key Region	Channel No.	Channel 1 Major
Dome Set	💽 General Set	
▶ VCA	Advanced Set	
▶ OSD	AND HUNGHEDD DEC	
Storage Management	Extended Code	baseline
Network Management	Video Encoding	H.264
User Management		
Alarm Management	Channel Type	Local Channel
PTZ Management	Encrypt Type	Not encrypted
Advance Set		
	Encrypt Password	
	Password Confirm	
	Electronic image stabilization	Disable
		Save Import Export
· · · · · · · · · · · · · · · · · · ·	·	

6.1.3 Key Region

<**Key Region>** To have better image quality for some regions on the video, there are 4 regions settable for each video.

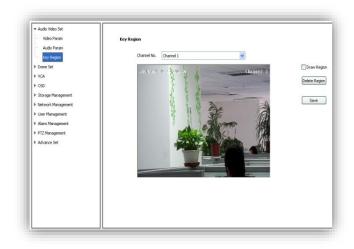
(1) <Draw Region>

Use the mouse to draw the key region on the video.

(2)Click**<Save>** to enable.

(3) <Delete Region>

delete the drawn regions.



6.2 Dome Set

6.2.1 HD Parameter Set video image parameter in this page. **HD Param-Model** The system provides 8 video templates for different application, all the video parameter can only be revised and saved in the template. (1) **<Current>** Select current template. (2)<Name>show the name of the current template, it can be revised. ¥ Current wdr **HD Param-Parameter** wdr Name (1)<Image Adjustment> Image Adjust Sharpness range from 0 to 255. 0 Sharpness (2) **Exposure Setting** Auto/Manual. Exposure Settings (3)**<Focus Setting>** Auto/Manual. Focus Settings (4)<Day/Night Switch> Day/Night Switch ▶ Back Light Settings <Smart IR> 0n/0ff White Balance <Day/Night> Auto/Night/Day Image <Sensitivity> Low/Middle/High (5)<Backlight Settings> Save Defaults Import Export <Wide Dynamic> 0n/0ff

(6)**<White Balance ><Auto>,<Manual>**and**<ATW>**.When selected**<Manual>**,there will be 2 sliding blocks to set the white balance, R stand for red gain and B stand for blue gain.

(8)<Image>

<Level>

<light suppression=""></light>	On/Off
<defog></defog>	On/Off
<digital denoise=""></digital>	Close/Ordinary Mode/Expert Mode
<denoise level=""></denoise>	range from 1~255

Low/Middle/High

HD Param- Defaults

Click button< **Default**>to recover the defaults setting for the target template. Remark <**HD Param**> has Export and Import function, operation is the same as <**Video Param**>.

6.2.2 HD Schedule

To define different video template used for

different time period.

(1)It offers 8 different time periods, select the check box to enable it.

(2)Select template for each time period.

(3)Length of each time period is settable. Colors

are different for different template.

(4) Click<Save>to save and enable.



6.2.3.1 Basic

<**Auto Flip Enable>** Enable for 0~180°, disable for 0~90°.

<**Tilt Angle Adjustment**> Set the tilt angle for speed dome camera, range from "0"to"-11" degree.

<Control Speed>

Set limit for the max operation speed, high/medium/low for selection, high=240°/s, medium=160°/s, low=80°/s.

<Auto Stop-time (s)> Set the time period for the speed dome camera to stop PTZ movement

since the last operation. It can be set to be 5/15/30/60s.

<**Preset Speed>** Set the preset speed for speed dome camera, there are high/medium/low for selection.

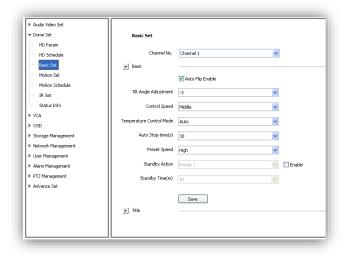
<Temperature Control Mode><Auto>and<OFF>

<**Standby Action>** It is to define the action of speed dome camera when it is idle. There are 4 options preset#1, scan#1, cruise#1 and pattern#1.

<**Standby Time** (s) > enable standby time setting. There are 30s,60s,300s,600s and 1800s for selection.

<save> save and enable all the setting.





6.2.3.2 Title

<**Title Type>** Preset, Scan, Cruise, Pattern and Zone No.

<**Title No.>** Preset number range from 1-32, Scan number range from 1-8, Cruise number range from 1-8, Pattern number range from 1-8, Zone Number range from 1-8.

<Title Name>Set title name.

<**Stay Time>** Title display on the screen, options 2s,/5s/10s/disappear/keep.

<Display Coordinate Direction> check to display the movement coordinates.

Display Title Background	ocheck to	display title	background.
--------------------------	-----------	---------------	-------------

6.2.4 Motion Set

▶ Audio Video Set ▼ Dome Set				~
	Motion Set			
HD Param	Channel No. Channel 1	~		
HD Schedule	Channel No. Channel 1	~		
Basic Set	2014/02/07 :	Charmel 1 Preset No.	1	Call
Motion Set		Focus Mode	Auto	•
Motion Schedule	7 3 4	- 1	Set	
IR Set			Let Lette	
Status Info	N 13 3	Cruise No.	1	Cal
+ VCA		Cruise	12	(A)
▶ OSD		and the second se		
In Storage Management		1 Preset	1	~
Network Management	SA 9 - 200	Stay Time(s)	1	*
Iser Management			Add Delete	
Alarm Management		and the second second		
PTZ Management		Scan No.	1	Call
Advance Set		Scan Type	Pan Scan	*
P Marane Jec		Set Origin Set North Scan Speed	20	v
			Broder 1 Broder 2	
	P A T		bidder 2	
		- Zoom + Pattern No.	1	Cal
	- C -	- Focus + Used(%)		×

6.2.4.1 Preset

<Preset No.> Speed dome camera supports 220 presets, number range from 1-64 and 100-255.

<**Focus Mode>** Focus mode for preset can be auto/manual.

Preset No.	1	Call
Focus Mode	Auto	~
	Set Delete	

<Set> Move to target position and press

<Set> to save as preset position.

<Delete> Delete the target number of preset position.

<Call>Speed dome camera will move to the target preset position.

Dome Set	Basic Set	
Dome Set HD Schoolde Basic Set Motion Set Motion Schedule IR Set Schub Info VCA Schoolde Management Metwork Management Marm Management PTZ Management Advance Set	Basic Set Channel No. Channel 1 ■ Basic ■ Title Spe Title Type Preset Title None B型(201 Stay Time S s ■ Display Coordinate ■ Display Title Back ■ Save	

6.2.4.2 Cruise

<Cruise No.> Speed dome camera supports 8 cruises, number from 1-8 <Cruise> show how many presets in the cruise.

<**Preset>** Only preset number 1-64 and 100-255 are available, click **<Add>** to add the preset into cruise list.

<Stay Time(S)>Set interval time

between two presets, rang from 1-60 seconds.

<Add>Add presets into cruise list.

<Delete>Remove preset from the cruise list.

<Call>Activate the speed dome to move follow the presets in cruise list.

6.2.4.3 Scan

<Scan No.>The speed dome supports 8 Scans, number from 1-8

<Scan Type>Pan Scan, Auto Scan, Frame Scan, Random Scan, Tilt Scan and Panorama Scan.

<**Scan Speed**>Set speed for Pan Scan, Auto Scan, Tilt Scan and Panorama Scan.

<Border 1>Left border of the Scan.

<Border 2>Right border of the Scan.

<Call>Activate scan movement of the speed dome.

6.2.4.4 Pattern

<**Pattern No.>**The speed dome camera supports 8 pattern tour, number range from 1-8.

<**Used(%)**> Show percentage used for operations in one pattern tour.

<Left Time(s)> Show the time remaining

in the pattern record process. (The speed dome camera supports up to 180s)

<Record> Start pattern tour recording

<Delete> Delete the target pattern.

<Call> Activate the speed dome camera to move following the pattern tour.

Cruise No.	1 Call
Cruise	12
Preset	1
Stay Time(s)	1
	Add Delete

Scan No.	1	Call
Scan Type	Pan Scan	~
Scan Speed	20	*
	Broder 1 Broder 2	

Pattern No. Used(%)	1 Call
Left Time(s)	_
	Record Delete

6.2.4.5 Zone No.

<Zone No.>The speed dome camera supports 8 zones, range from 1-8. <Left Border> Move the speed dome camera to the target position and set it as the left border of the zone.

Zone No.	1
	Left Broder Right Broder Delete

<Right Border> Move the speed dome camera to the target position and

set it as the right border of the zone.

<Delete>Delete the target zone.

<Set Origin>Move the speed dome camera to the target position and set it as original point of the coordinate.

<Set North>Move the speed dome camera to the target position and set it as north direction of the coordinate.

6.2.5 Motion Schedule

Activate different motion (Presets, Scan, Cruise and Pattern) for different time period.

Audio Video Set										
▼ Dome Set	Motion Schedule									
HD Param										
HD Schedule	Schedule	Friday					*	Enable		
Basic Set		Start Time			End Time	÷	Action		Action No.	
Motion Set		00:00		\sim	00:00		None	~		*
Motion Schedule		00:00		~	00:00		None	~		~
···· IR Set		00:00		~			None	~		~
Status Info										~
▶ VCA		00:00		~	00:00		None	~		
▶ 05D		00:00		~	00:00		None	*		*
Storage Management		00:00		\sim			None	~		*
Network Management		00:00		\sim	00:00		None	\sim		~
User Management		00:00		~	00:00		None	~		\sim
Alarm Management										
PTZ Management		Copy To	All		_	_	_	_	_	
Advance Set		📃 Sun	Mon 📃	C	Tue	🔲 Wed	🗌 Th	u 🗹 Fri	🔲 Sat	Apply
		Save								
		2440								

- <Enable> Enable the setting.
- **<Start Time>**Start time for the motion.
- **<End Time>**End time for the motion.
- **<Action>**Motion in this time period.

<Action No.>Motion number, Preset 1-8, Scan 1-4, Cruise 1-4, Pattern1-4.

<All>Enable every day in a week, including Saturday and Sunday.

<Apply>Click to copy the configuration to the selected day.

<Save>Save all the setting.

6.2.6 IR Set

Alam Management P 727 Management Advance Set	Vone Set IR 1 Ho Schedule Basic Set Motion Set Motion Schedule Is Set Schus Info VCA OSD Storage Management Network Management Network Management	t Chanel 1 Chanel 1 Control Mod Anaual Close
 VCA OSD Storagement Ver Management Ver Management Part Lamp Brightness Save 	Announce and a second	Near Lamp Brightness 0
 Storage Management User Management Alam Management PTZ Management PTZ Management 	▶ VCA	Far Lanp Brightness
Autogeneralization Network Management Alarm Management Alarm Management PTZ Management		Save -
User Managemenk Alarm Managemenk P 72 Management		
Alarm Management PTZ Management		
> PTZ Management		
	× 8	
	1 11	

<Control Mode>Auto, Manual Open, Manual Close.

<**Zoom Match**>When it is ON, the brightness and power consumption of the IR LED will be matched with the camera zooming distance automatically.

<Near Lamp Brightness> Disable zoom match, set the Near lamp brightness level, range from 0 to 10.

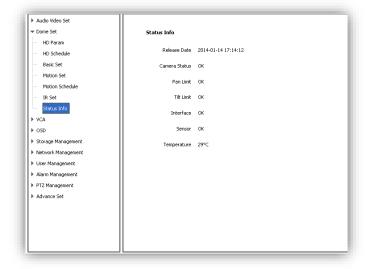
- <**Far Lamp Brightness>** Disable zoom match, set the far lamp brightness level, range from 0 to 10.
- **<Save>** Save all the setting.



Smart IR group, 150m IR range at night

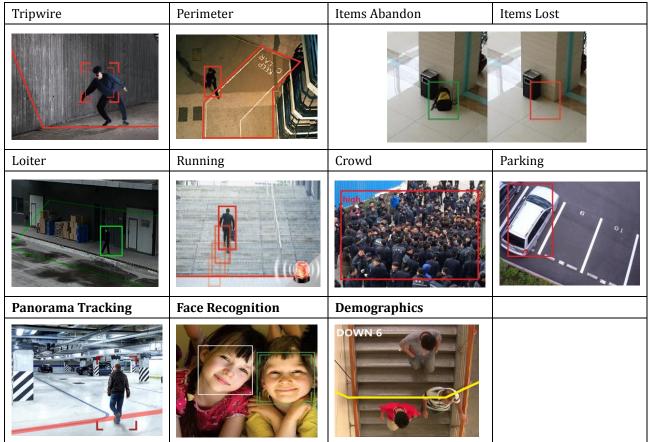
6.2.7 Status Info

It shows current status information of speed dome.



6.3 VCA

VCA(intelligent video analysis) includes 11 functions:



Notes: Tripwire and Perimeter are able to activate auto-tracking.

CAUTIONS: To enable the VCA functions, please DO follow the steps:

1.Scene Set—2.Alarm Set—3.Advance—4.Cruise Set.

Specify detail operation of VCA in <Scene Set>, then setup VCA alarm schedule in <Alarm Set>, enable <Advance>, finally setup activated time for each VCA rules in <Cruise Set>. PLEASE DO NOT MISS ANY STEP ABOVE TO AVOID ANY FAILURE OF SETTING.

6.3.1 Alarm Info

This page is just used to display alarm info when you success to configure.

<Reset>Clear alarm numbers of the VCA rule.

<Clear>Delete all the alarm information in list.

Channel No.	Channel 1			•				
Alarm Time	Chan No.	Scene Num	Rule ID	Event	Alarm Capture Images	Scene Number	1	✓ ON
						Algorithm Type	Behavior Analysis	▼ Re
						Rule ID	[1	•
						Rule Name		

6.3.2 Scene Set

<Behavior Analysis> check to enable behavior analysis, including Tripwire, Perimeter, Items Abandon, Items Lost, Loiter, Running, Crowd, Parking.

Notes: If check <Linkage Tracking>, it will allows Tripwire/Perimeter to activate auto-tracking.

<**Save Scene>** click to activate settings.<**Rule ID>** make the rule numbers for
behavior analysis. Support up to 8 rules
in the same scene at the same time.

<Valid> activate the rules and start setting.

<**Rule Name**>Give a rules name(max to 16 characters).
<**Rule Clear**>clear current rule.

6.3.2.1 Behavior Analysis

Below are setting operation for different type of analysis after Selected <Behavior Analysis>:

(1)Event Set --- Tripwire/Perimeter

Scene Number	1 •
Scene Name	Outdoor
Enable Arithmetic	Behavior Analysis Linkage Tracking Face Detection
	Save Scene
Arithmetic	Behavior Analysis 🔹
Rule ID	1 Valid
Rule Name	Rule Clear



Rule ID	1	•	Valid
Rule Name			Rule Clear
Event Set	Perimeter	•	Line Clear
Detect Mode	Intrusion	•	
Alarm Color	Red	T	
No Alarm Color	Green	T	
	Show Alarm Count		
	Show Alarm Rule		
	Save		_

Scene Number 1 Scene Name Outdoor nable Arithmetic 🛛 Behavior Analysis 📝 Linkage Tracking 📝 Face Detection Demographics Save Scene Arithmetic Intelligent Tracking -• The Longest • Speed Dome 1 * Static Tracking 2 ▼ Set Limit UpLimit C Enable Limit Enable Anti-blocking Save

Event Set	Items Abandon	*	Line Clear
Alarm Color	Red		
No Alarm Color	Green	~	
Alarm Time(s)	0	5	
	Show Alarm Count		
	Show Alarm Rule		
	Save		

<Detect Mode> For <perimeter> detection, include

<Intrusion> alarm when object come in/out.

<Enter> alarm when object come in.

<Leave> alarm when object go out.

<Show Alarm Count>show total alarm times.

<Show Alarm Rule>show defined tripwire/perimeter on video.

<Two-way Alarm>when selected <Tripwire>, choose the"two-

way alarm", then two directions cross will both trigger alarm.

<Line Clear>clear current lines drawn on video.

- <Rule Clear>clear current rule.
- <Save>Save and enable the VCA setting.

<Linkage Tracking> or <Panorama Tracking>

Tips: <Linkage Tracking> option is only available when you check <Behavior Analysis>

< Arithmetic > configure <Intelligent Tracking>

<The longest> Set time limitation (seconds) how long the PTZ follow the object. And then it will go back to standby position. <Speed Dome> Enter the value how high (meters) you install the PTZ

<**Static Tracking>** Set time (seconds) when the object stay for a while, the PTZ will go back to standby position

<Limit> Setup boarder of traking area from 4 direction. When the object go beyond the area, PTZ will stop to follow it. <Enable Limit>Check to activate traking area boarders <Enable Anti-blocking>PTZ wil alarm when it is blocked

(2)Event Set ---Items Abandon

<Line Clear>remove the defined area on video.<Alarm Time>time to activate alarm.

<**Show Alarm Count**>show total alarm times on screen.

<Show Alarm Rule>show the defined area on screen.

<Save> save to enable.

33

(3)Event Set ---Items Lost

<Line Clear> remove the defined area on video.<Alarm Time> time to activate alarm.

<**Show Alarm Count>** show total alarm times on screen.

<**Show Alarm Rule>** show the defined area on screen.

<Save> save to enable.

(4)Event Set ---Loiter

<Alarm Time> time to activate alarm.

<Sensitivity> bigger value, higher sensitivity.

<Min Distance> smaller value, higher sensitivity.</m><Show Alarm Count> show total alarm times on screen.

<**Show Alarm Rule>** show the defined area on screen.

<Save> save to enable.

(5)Event Set ---Running

<Max Distance> <Min moving distance>

Set the max and min distance on screen to detect the target object speed.

<**Show Alarm Count>** show total alarm times.</**Show Alarm Rule>** show the defined area on screen.

<Save> save to enable.

(6)Event Set---Crowd

<Line Clear> remove defined area. <Alarm Time(s)> time to activate alarm. <Sensitivity> bigger value, higher sensitivity. <Show Alarm Count> show total alarm times. <Show Alarm Rule> show the defined area on screen.

<Save> save to enable.

Event Set	Items Lost	✓ Line C	lear
Alarm Color	Red	~	
No Alarm Color	Green	~	
Alarm Time(s)		5	
	Show Alarm Count		
	Show Alarm Rule		
	Save		
Event Set	Loiter	✓ Line Cle	ar
Alarm Color	Red	~	
No Alarm Color	Green	Ŷ	
Alarm Time(s)		10	
Sensitivity	0	2	
Min Distance	- 0	3	
	Show Alarm Count		
	Show Alarm Rule		_
Event Set	Running	✓ Line Cle	ar
Alarm Color	Red	~	
No Alarm Color	Green	~	
Max Distance	<u>I</u>	3	
Min moving distance	-0	5	
	Show Alarm Count		
	Show Alarm Rule		

Event Set	Crowd	¥	Line Clear
Alarm Time(s)	0		3
Sensitivity		-0	4
	Show Alarm Count		
	Show Alarm Rule		
	Save		

(7) Event Set --- Parking

<Line Clear> remove defined area.

<**Alarm Time(s)**> time to activate alarm.

<Show Alarm Count> show total alarm times.

<Show Alarm Rule> show the defined area on screen.

<Save> save to enable.

6.3.2.2 Panorama Tracking

(1) Check to enable the target channel

- (2) Select <Panorama Tracking >
- (3) Click **<Save Scene>** to start setting.

(4) **<Arithmetic>** show current arithmetic.

<The longest > set the longest tracking time (S)

<**Speed Dome** >set the height of speed dome(this value should be the same as actually installation height) ,3m-9m is suggested .

<**Static Tracking** > set the time for speed dome to wait when target object is not moving.

<Limit> set the tracking region limit on screen.

(up/down/left /right)

(5) **<Enable Limit>** validate the limit set.

(6) <Enable Anti-blocking> enable to detect a wider

- area when target object is covered.
- (7) **<Save>** save to enable.

6.3.2.3 Face Detection

This function will enable speed dome to recognize people's face and snapshot and save face picture automatically.

(1)Check <Face Detection>

(2)Click <save scene> to start setting

(3)<**Max Face Size> <Min Face Size>** setup target face size percent in target region.

(4)<Sensitivity> setup detection sensitivity.

(5)<**Run level>** level 0-4, bulit-in programe level, please keep default.

(6)**<Face Snapshot>** ON/OFF, when ON it will capture the detected face picutre and save.

(7)<Draw Region> click to define a region on screen, speed dome will only detect people's face in this region.
(8)<Save> save to enable.

Event Set Parking Line Clear Alarm Color Red Green No Alarm Color Alarm Time(s) Show Alarm Count Show Alarm Rule Save Scene Number 1 ¥ Outdoor Scene Name Enable Arithmetic Behavior Analysis 🖌 Panorama Tracking 🗌 Face Detection Demographics Save Scene Intelligent Tracking ¥ Arithmetic -The Longest 5 * 1 Speed Dome • 2 Static Tracking ✓ Set Limit UpLimit Enable Limit ✓ Enable Anti-blocking Save

Scene Number	1	*	
Scene Name	Outdoor		
Enable Arithmetic	Behavior Analysis Panorama Tracking Demographics	•	Face Detection
	Save Scene		
Arithmetic	Face Detection	۷	
Max Face Size		- ii	30%
Min Face Size	-0		5%
Sensitivity	0	-	0
Run Level	0	~	
Face Snapshot	OFF	~	
	Draw Region		
	Save		

6.3.2.4 Demographics

This function will enable speed dome to count the number of how many people cross the defined line on screen.

(1)Check < Demographics>

(2)<Mode> choose <vertical demographics> or <bias demographics>

(3)<Max Target Size> <Min Target Size> setup target people size percent in target region.

(4)**<Sensitivity>** setup detection sensitivity.

(5)**<Draw Region>** check to define a region on screen, speed dome will only count number in this region.

(6)**<Save>** save to enable.

6.3.3 Alarm Set

Setup VCA activation schedule.

(1)<Channel No.> select the target channel <VCA Enable> Indicate the VCA status of the current channel.

(2)<**Rule ID**> Connected to the setup VCA rules in <**Event** > When select rule ID, it will bring out setup information of <**VCA Enable**>, <**Rule**

Name> and <Event>.

<**Enable>** Enable the setting of **<Schedule>** to setup the day and time of the VCA activation.

(3)**<Schedule>** Schedule alarms. 4 time periods selectable in a day.

<Apply> enable the setting.

(4)<Link Type>

<Link Out> alarm output.

<Link Rec> activate recording.

<Link Snap> activate snapshot.

<Save> Save to enable setting.

Scene Number	1	Y	
Scene Name	Outdoor		
Enable Arithmetic	Behavior Analysis Panorama Tracking Demographics		Face Detection
	Save Scene		
Arithmetic	Demographics	¥	
Detection Type	Detective Line	v	
Mode	Vertical Demographics	۷	l
Max Target Size		-	30%
Min Target Size]		5%
Sensitivity	0		0
	Draw Region		
	Save		

Channel No.	Channel 1 VCA Enable
Scene Number	1 Inable
Rule ID	1
Rule Name	
Event	Tripwire * Enable
Schedule	Wednesday 👻
	- 00:00 × 00:00 ×
	■ 00:00 ★ 00:00 ★
	00:00 × 00:00 ×
	Copy To All Sun Mon Tue Wed Thu Fri Sat Apply
Link Type	
c	Channel No. 🔄 All
	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 32
	Save

6.3.4 Advanced

(1)**<Channel No.>** Select target channel

(2)**<Scene Number>** Select target Scene No.

(3)**<Max Target Size>** Set upper limit how much proportion the Object occupy on the screen for recognition

(4) < Min Target Size > Set lower limit

Note: PLEASE KEEP THE FOLLOWING ITEMS AS DEFAULT VALUE TO AVOID ANY ERROR. PLEASE ASK FOR HELP OF SPECIALIST IF REVISING NEEDED.

<Integrate>

<Target combined>

<Background Update>

<Foreground Max>

- < Foreground Min>
- <Target Confirmed>
- (5)<Enable>
- (6)**<Save>** save to enable.

6.3.5 Cruise Set

(1)Timed Cruise

Enable the speed dome to switch between different defined VCA functions, time interval range from 30~3600 seconds.

Channel 1	-
1	•
·0	30%
-0	
0	10
,0	5
0	5
-0	16
,0	6
	15
Enable	
Save	

No.	Scene No.	Scene Name	Retention Time(s)
1	1	Outdoor	30
2	3		30
3	2	Test	100
4	4 v		3600

No.	Scene No.	Scene Name	Start Time	End Time
1	1	Outdoor	23:00	12:59
2	2 🗸	Test	13:00 🜲	23:59 🜲

(2)Scheduled Cruise

Set valid time period for each defined VCA functions.

6.4 OSD

6.4.1 OSD

Channel Name

(1)**<Channel Name>** Input channel name, then it will show on screen.

(2) <Customize Position> drag <Channel Name> to the target position on screen.
(3)<Color> Choose your favorite color.

Date

- (1) **<Date>** Display date on screen.
- (2) **<Show Week>** Display week on screen.

(3) **<Customize Position**> drag **<Date>** to the target position on screen.

(4)**<Color>** Choose your favorite color.

Additional Text

(1)<**Additional Text>** 5 areas available to put additional text on the screen.

(2) **<Customize Position**> drag **<Date>** to the target position on screen.

(3)**<Color>** Choose your favorite color.

OSD Size

<Adjust-Self> Edit OSD size.</br><Save> Save all settings.

6.4.2 LOGO

Add LOGO picture on screen. **Notes** logo picture format must be .bmp, and must be follow the size. **LOGO File>,<Browse>** to select logo picture, and**Upload> Notice** Device will restart after upload (1)After restart, select**<Enable>** to show the

logo on screen.

(2)Enable<**Customize coordinate Pos>** to put the logo on the target position on screen where you click.



🗹 Channel Name	Channel 1			
	Customize Position	Color	White	*
🔽 Date	2014/02/07			~
	Customize Position	Color	White	*
	Show Week			
		urs		
Additional Text	1			*
				^
				~
	Customize Position	Color	White	۷
OSD Size	Adjust-Self			*
	Save			



6.4.3 Video Cover

- Add up to 4 cover areas on the screen.
- (1)<Channel No.> Choose target channel.
- (2)<Draw Region> Check to enable.
- (3)Draw cover area on screen
- (4)<Clean Area> Delete all cover areas.

6.5 Storage Management

6.5.1 Record Policy

Setup recording schedule.

(1)<Channel No.> Choose target channel.

(2)<Record Status> Display current record status.

(3)Select recording type(multiple-choice)

<Manual Rec> Check to start recording.

<**Alarm Rec>** Recording will be activated by alarm.

<**Task Rec>** Timing recording, 4 time periods settable for one day.

(4)<Offline Video> When it is ON, the device will follow the schedule of <Task Rec> when offline.(5)<Save> Save.

6.5.2 Pre-recorded Alarm

<**Pre-recorded Alarm**> record before alarm, or continue to record after alarm.

(1) **< Channel No.>** Target channel.

(2)**<Pre-recorded Alarm>** Check to enable.

(3)<**Pre-record Time**> Record before alarm.

(4)**<Record Delay>** Continues to record after alarm.

(5)**<Save>** Save.

6.5.3 Storage Set

<Pack by time> Pack the record files by time.

<Free Disk> Pack the record files by size.

<Strategy> Select how to handle the record files when the disk is full.

<Stop Rec> Stop record new files.

<Cycle Del> Delete the earliest record files.

<Cycle Del (Except Alarm)>

Delete the earliest record files except event record files.



Record Policy	
Channel No.	Channel 1
Record Status	Stoped
	☐ Manual Rec ☑ Alami Rec ☐ Task Rec
Schedule	Friday
	00:00
	00:00
	00:00
	00:00
	Copy To All Sun Mon Tue Wed Thu V Fri Sat Apply
Offline Video	OFF Prompt video recording with Internet disconnected, a
	Save

Pre-recorded Alarm	
Channel No.	Channel 1
	Pre-recorded Alarm
Pre-record Time (5-15)s	10
Record Delay (10-60)s	10
	Save

Storage Set		
Storage Policy		
💽 Pack by Time	30 (10~60)M	lin
Free Disk	900 (>=200)N	18
Strategy	Cycle Del	
	Save	

<Save>

6.5.4 Snapshot Set

(1) **<Channel No.>** Select target channel.

(2)<Timing capture> Enable timing capture

(3)**<Interval(s)>** Set how much internval times between two snapshots.

(4)**<Link FTP>**snapshot and upload to FTP server.

(5)<Link Email>snapshot and send to target email.(4)<Save>

6.5.5 Disk Information

<Initialize Disk> format the disk

6.5.6 Network Storage

(1)<Device No.> Select disk.

(2)**<Status>** Show current disk status information

(3)<Usage> Shows purpose of disk.

(4)<IP Address> Setup IP address of <Network Storage>.

(5)<Mapping Path> Setup disk path of mapping.

(6)**<Total Size(M)>** Shows used and total capacity of the disk.

(7)<Save>

6.6 Network Management

6.6.1 Cable Network

<DHCP> check to enable DHCP server will automatically allocate IP address for devices. <IPv6> Display IPV6 address and subnet mask. <MTU> Maximum Transmission Unit, range from 500~1500, default value is 1500. <Ethernet Rate> Select mode and rate of Ethernet

card, default mode is <Automatic Detection>, speed unit is MB.

Notes: Devices will restart after change <Ethernet Rate>.

Snapshot Set	
Channel No.	Channel 1
Timing capture	Disable
Interval(s)	3
Capture Link	Link FTP Link Email
	Save

Net Storage	
Device No.	1
Status	UnMounted
Usage	Record
IP Address	0.0.0.0
Mapping Path	/nfs
	Save
Total Size(M)	e Space(0.00G) Total Size(0.00G)

Cable Network								
	DHCP							
IPv4 Address	192	•	168		1	•	201	
IPv4 Subnet Mask	255		255		255		0	
IPv6 Address	fe80::250;	c2ff:	fe28:89	88				
IPv6 Subnet Mask	64							
Gateway	192		168		1		1	
DNS	192		168		1		1	
MTU	1500							
Ethernet Rate(M)	Automatic	Dete	ction				1	1
	Save							

6.6.2 Registration Center

Keep same settings as what you register in DDNS website.

Audio Video Set	
Dome Set	Registration Center
VCA	
▶ OSD	Server Name NVSS
Storage Management	
▼ Network Management	IP1 192.168.1.1
Cable Network	Port1 6004
Registration Center	
Network Service	IP2 192.168.1.1
IP Filter	Port2 6004
	Port2 6004
User Management	User Name QQ
Alarm Management	
PTZ Management	Password ••••
Advance Set	
	Save
Audio Video Set	
Dome Set	Network Service
▶ VCA	
▶ OSD	UDNS
Storage Management	Enable
▼ Network Management	
Cable Network	Server Domain nvs.3322.org
Registration Center	DDNS Domain www.3322.org
···· Network Service	
IP Filter	Port 80
 User Management 	User Name nys
 Alarm Management 	
	Password •••
PTZ Management	
Advance Set	Password Confirm •••
	Password Connim •••
	Save
	Save
	58ve
	Save
	58ve
	5ave 5ave b PPPoE b MPP
	5ave 5ave b PPPoE b MPP
Advance Set	5ave 5ave b PPPoE b MPP
 Advance Set Audo Video Set 	58ve
Advance Set	5ave 5ave b PPPoE b MPP
 Advance Set Audo Video Set Dome Set 	58ve
 Advance Set Audo Video Set. Dome Set. Vica OGD 	Seve
 Advance Set Audo Video Set Dome Set VCA OSD Storope Management 	Save
 > Advance Set > Audo Wdeo Set. > Dome Set. > VCA > OSD > Storage Management. > Vaktivok Kanagement. 	Seve
Advance Set Advance Set Audo Video Set Ocome Set Vica Vica Set Soco Management Cable Instruct. Cable Instruct.	Save
Advance Set Advance Set Audo Video Set Dome Set VCA Scoge Management VEtwork Management Cable Network Registration Centerr	Save
Advance Set Advance Set Audo Video Set Ocome Set Vica Vica Soco Management Cable Instruct. Cable Instruct.	Save
 > Advance Set > Audo Video Set > Come Set > VCA > OSD > Storage Management > Metwork Management > Registration Carter > Metwork Service 	Save
Advance Set Advance Set Advance Set Advance Set Advance Set Ocane Set Cable Relevance Registration Center Registration Center Metwork Service Detwork Service	Seve
 > Advance Set > Audo Video Set > Come Set > VCA > OSD > Storage Management > Network Management - Registration Center - Registration Center - Metwork Service - JP Inkor > Uder Management > Uder Management 	Seve
Advance Set Advance Set Audo Video Set Ocio Set Vica Vica Vica Socio Set Soci	Seve IFP IFP IFP Other Other ICONS IFP Usage Usage Optimized Server URL Part
 > Advance Set > Audo Video Set > Come Set > VCA > OSD > Storage Management > Network Management - Registration Center - Registration Center - Metwork Service - JP Inkor > Uder Management > Uder Management 	Save
Advance Set Advance Set Audo Video Set Ocio Set Vica Vica Vica Socio Set Soci	Save Save Save Save Save Save Save Save
Advance Set Advance Set Audo Video Set Ocio Set Vica Vica Vica Socio Set Soci	Seve
Advance Set Advance Set Audo Video Set Ocio Set Vica Vica Vica Socio Set Soci	Seve Image: Prope Image: Prope Image: Prope Usage: Oconicad Server LBL Point Point Usage: Oconicad Server LBL Point Usage: Oconicad Server LBL Point User Name Password Save
Advance Set Advance Set Audo Video Set Ocio Set Vica Vica Vica Socio Set Soci	Seve
Advance Set Advance Set Audo Video Set Ocio Set Vica Vica Vica Socio Set Soci	Seve IFP IFP Other Other Implement Service Implement Service

6.6.3 Network Service DDNS

Keep same settings as what you register in DDNS website.

FTP

Make sure to insert the memory card.

PPPoE

NTP

Check to enable PPPoE function, enter User name and confirm password.

<NTP Server> enter server address. <Port> enter NTP server port. <Interval> update interval.

Audo Video Set Eonio Set Vica Vica Social Management Registration Center Network Management Cable Network Registration Center Network Service Jip Filter User Management Marm Management	Network Service F CONS F FIP Prevot WIP Server Port 123 Interval(h)
▶ Advance Set	 } Other
▶ Audio Video Set	
▶ Audio Video Set ▶ Dome Set ▶ VCA	Network Service
Dome Set	<u>>)</u> рекод >) рекод <u>></u> укарание
Dome Set VCA VCA Socage Management Natwork Management Cable Network	<u>>)</u> СОАБ >) ГРР >) РРРАЕ

Others

Set Http and Https port, Enable UPnP and SNMP functions.

Audio Video Set			
▶ Dome Set	IP Filter		
▶ VCA			
▶ 05D	⊙ Alc	w All O Allow the folio	owing IPs 📀 Block the following IPs
Storage Management			Add Delete Save
 Network Management 			
Cable Network	8	IP	Status
Registration Center			
- Network Service			
IP Filter			
User Management			
Alarm Management			
PTZ Management			
Advance Set			

6.6.4 IP Filter

Blacklist

User want to block some IP address, select<Block the Following IPs>, input the block IP address and<Add>,<Save>.Max to add 16 blacklist IP address.

Caution: Please don't add your own IP address in blacklist, otherwise you will not be able to login.

Whitelist

User want to allow only some IP address, select <Allow the Following IP>, input trusted IP address, <Add> and <Save>. Max to 16 whitelist IP address.

Caution: Once enable the whitelist function, please make sure to add your own IP address in whitelist, otherwise you will not be able to login the device.

Cancel blacklist or whitelist

Anytime click<Allow All> and <Save> to cancel all the blacklist and whitelist. **Note:** Please restart device after setup blacklist or whitelist.

6.7 User management

6.7.1 Add User

<User name> add user, only English letter and figure are available.

<Password> only English letter and figure are available.

<Authority>:

Browse: Can only watch the videos.

browse+ control: Watch video and control PTZ.

browse+ control+ set: Allow all operation except user management.

Administrator: All operations available.

6.7.2 Modify password

Select the user you want to modify in the user list, click <Modify Pwd>,input the old password, new password, password confirmation, then click<Modify>.

6.7.3 Delete User

Select targeted user in user list and click 【Delete】 to delete.

6.8 Alarm Management

6.8.1 Alarm Input

IP Camera alarm input has port1~8, alarm mode include closed circuit alarm and open circuit alarm. <ON>is closed circuit alarm.

<OFF>is open circuit alarm.

<Link Out>/<Link PTZ> activate alarm device or PTZ.

User Name		
Password		
Password Confirm		
Authority	Browse	*
	Browse Browse+Control Browse+Control+Set Admin	

User Name	Admin
Old Pwd	
New Pwd	
Password Confirm	
	Modify

Dome Set		
	Alarm Input	
▶ VCA		
▶ 050	Input Port	1 Enable
Storage Management	Mode Set	ON V
Network Management		
User Management:	Schedule	Friday 👻
▼ Alarm Management		00:00 🗘 🖌 😥
Alarm Input		00:00 🔿 🐭 🔯
Alarm Output		00:00 0 ~ 00:00 0
Motion Alarm		00:00
Lost Alarm		
Cover Alarm		Copy To All
Email Alarm		Sun Man Tue Wed Thu ♥Pri Sat Apply
Alarm Server	Link Type	Link Out
PTZ Management		Channel No. 🗍 All
Advance Set		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 32
		Save

6.8.2 Alarm Output

Alarm output has port 1~2. <ON>is closed circuit alarm. <OFF>is open circuit alarm.

Alarm Output		
Output Port	1	
Mode Set	ON 💌	

6.8.3 Motion Alarm

(1)<Set Motion Detection Area> Check to draw area on screen.

(2)<Clean Area> Clean drawn area.

(3)<ICR-Sensitivity> set detection sensitivity, range from 0-

100, 0 means the highest sensitivity.

(4)<Schedule> setup alarm arm schedule.

(5)<Link Out> set alarm activation.

	Set Motion Detect Area
ICR-Sensitivity	24
Schedule	Friday
	00:00 🗘 🗸
	00:00 🔷 🗸
	00:00 🗘 🗸
	00:00 🗘 ~
	Copy To All
	Sun Mon Tue Wed Thu VFri Sat
Link Type	Link Out
	Channel 🔲 All
	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 32



6.8.4 Lost alarm

Alarm when video lost.

- (1) Check to enable lost alarm for target channel.
- (2) <Schedule> Setup alarm arm schedule.
- (3) <Link Type> Link PTZ/no link.
- (4) <Link Channel>

(5) <Link PTZ Type> no link/preset position/pattern/auto tour.

Channel No.	Channel 1	~	🗹 Enable	
Schedule	Friday	~		
	00:00	N 00:00		
	00:00	N 00:00		
	00:00	~ 00:00		
	00:00	~ 00:00		
	Copy To 🔲 All			
	Sun Mon 🗌	Tue 🔲 Wed 🛄 Th	u 🗹 Fri [Sat Apply
Link Type	Link PTZ	×		
Link Channel	Channel 1	~		
Link PTZ Type	No Link	*		
		*		

6.8.5 Cover Alarm

Alarm when camera lens is covered.

Audio Video Set		
Dome Set	Cover Alarm	
▶ VCA		
▶ OSD	Channel I. Channel I Snable	
Storage Management	ICR-Sensitivity 24	
Network Management		
User Management	Schedule Friday	
🕶 Alarm Management		
Alarm Input	D0:00 C ~ 00:00 C	
Alarm Output	00:00 0 - 00:00 0	
Motion Alarm		
Lost Alarm	Copy To	
Cover Alarm	CopyrioAwai 	
Email Alarm		
Alarm Server	Link Type Link PTZ	
PTZ Management	Link Channel 1	
Advance Set		
	Link YIZ Type No Link	
	Number	
	Save	

6.8.6 Email Alarm

(1)<Email Alarm Enable> check to enable sending email after alarm.

(2)Set sending email information:

<SMTP server> <SMTP port><Email

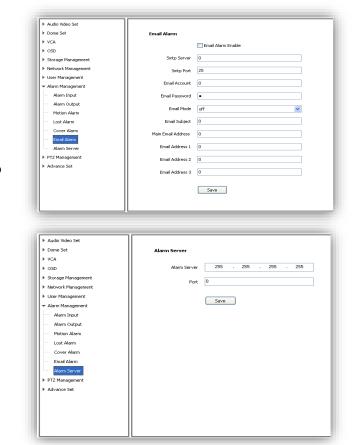
Account><Email Password>

(3)<Email Mode>

(4)Input receive email address, support up to 4 email address.

6.8.7 Alarm Server

Set alarm server's IP address and port number,



6.9 PTZ Management and Control

PTZ management mode: <Serial Port Set>and<Protocol Set>

<Serial Port Set>:

<Port Name>,<Baud Rate>,<Parity>,<Byte Size>,<Work Mode>

<Protocol Set>:

<Channel>,<Port Name>,<Protocol>,<Address>

Serial Port Set		
Serial Port Set		
Port Name	Com2	~
Baud Rate	9600	~
Parity	None	~
Byte Size	8	~
Work Mode	Protocol Mode	~
Protocol Set		
Channel	1	~
Port Name	Com2	~
Protocol	DOME_PELCO_P	~
Address	1	\$
	Save	

6.10 Advance

6.10.1 Local set

(1)<Showing frame-rate and bit-stream information> check to display frame rate and bit stream on video.

(2)Set the save path of record files, snapshot, clips and download files.

(3)<Protocol Type> TCP, UDP or multicast.

(4)IP camera has only one channel, user can choose major stream or minor stream.

	Showing frame-rate and bit-stream information	
Save record files to	d:\NetVideoBrowser\RecordFiles\	Browse
Save snapshots in live view to	d:\NetVideoBrowser\CapturePics\	Browse
Save snapshots when playback to	d:\NetVideoBrowser\PlaybackPics\	Browse
Save clips to	d:\NetVideoBrowser\PlaybackFiles\	Browse
Save downloaded files to	d:\NetVideoBrowser\DownloadFiles\	Browse
Protocol Type	тср	



6.10.2 System setting

(1)<System Time> Set time zone and time synchronous.

(2)<SystemInformation>Display information of CPU,Memory and FLASH.

(3)< Version Information >Display <SDK Version>, <Kernel Version>, <Web Version> and<Factory ID>.

System Time	2014/02/07 16:34:41	Synchronus
Region	GMT+08:00	*
Daylight-Saving Time	Enable	
Start Time	Jan 🔻 First 💙 Sun	🗸 00 🗸 oʻdo
End Time	Jan 🗸 First 🗸 Sun	v 00 v oʻdo
DST Bias	120min	~

6.10.3 System Maintenance

System maintenance includes <Equipment Control>and <Version Upgrade>. (1)<Equipment Control> <Restore> Reset to factory default. <Reboot> Reboot the device. (2)<Version Upgrade> upgrade new firmware. (firmware format: .box/.bin) Upgrade process normally needs a few minutes until indication for completion.

System		
Equipment Control		
	Restore	
	Reboot	
Version Upgrade		
Upgrade File	(*.bin)or(*.box)	Browse Upgrade

Caution: Please strictly follow the instruction by technical specialist for firmware upgrade.

6.10.4 Access Platform

PU set user can set the IP address and port number of<Register Server>,<Heartbeat Server>,<Alarm Server>and VSP's port number and VAP's port number. <Channel No. >support<Auto Filling Setting>function.

PU set support 【SIP】 protocol setting.

SIP Set	
Server IP	0.0.0.0
Server Port	0
Server ID	
Device ID	
User Name	
Password	
RegValidity	0
Keep-alive	0
Heartbeat Interval	0
Heart Rate	0
	Need to Register

IP cameras support onvif V10, user can choose "enable".

Platform Enabled		- 11
Platform List	onvif 👻	🗸 Enable

Register Server	192 . 168	1.	100	
Port	10102			
Heartbeat Server	192 . 168	1.	100	
Port	10102			
Alarm Server	192 . 168	1.	100	
Port	2122			
	2122			
Device ID				
Device Name				
VSP Port	8000			
VAP Port	9000			
Access Pass				
Channel No.	Channel 1		~	
Channel ID	0			
	Auto Filing Setting			
	Save			

Chapter 7 Simple Problem-solving Methods

symptom	Possible causes	Solutions
Power on no action,	Power supply is damaged or not enough power	Replace the power supply
No images,	Power cable fault	Corrected
Machine is not self checking	Line problems	Troubleshoot line, measure IP speed dome's voltage
	Network line or switch damaged	Test by IP speed dome connect to PC directly
Self action properly, but can't ping	IP speed dome's IP address and PC's IP address aren't in same network segment	Change IP address to insure they are in the same network segment and aren't conflict.
Ping is working normally, but can't login	User name or password error	Check user name or password
	Port number error	Check port number
	Login account more than limit	Disconnect other client host
	Login account more than limit	Connect video by proxy server
No video after login	Camera is damaged	Check log record
	Parameter setting error	Restore the default parameters
Image is not stable	IP address conflict; MAC address conflict; broadcast storm	Check network setting
iniage is not stable	Network line problem	Check network line
	PC performance isn't enough	Check CPU utilization, reduce code stream or resolution
Image is not stable,	Frame rate is low	Change frame rate in more than 20
delay,	The network bandwidth shortage	Replace the gigabit switches
	Decoder's performance isn't enough	Change decoder

	IP Speed dome can't	Serial port Settings error	Check and change serial port number to "COM2"
be controlled	Protocol, Baud rate, address error	Check IP speed dome's protocol, baud rate and address	
	IP Speed dome restart again and again	Power supply isn't enough, voltage isn't stable	Measure IP speed dome's voltage to insure stability
		PPPOE dialing failed	Check and change dialing parameter
		Camera is damaged	Replace the camera
		Parameter setting error	Restore the default parameters

Chapter 8 After-sales Service

The HD Network IR speed dome products, the company offers one-year warranty. Product warranty, the company provides a free service, but if any of the following circumstances, is charged fee for material costs work:

- Do not operate in accordance with the provisions of the manual
- The speed dome damage caused by a case of the lightning strikes, fires and irresistible natural disasters;
- Matching problems arising from poor design to other manufacturers products cause damage; Company statement
- As we continue to introduce new technologies and product specifications are subject to change without prior notice.

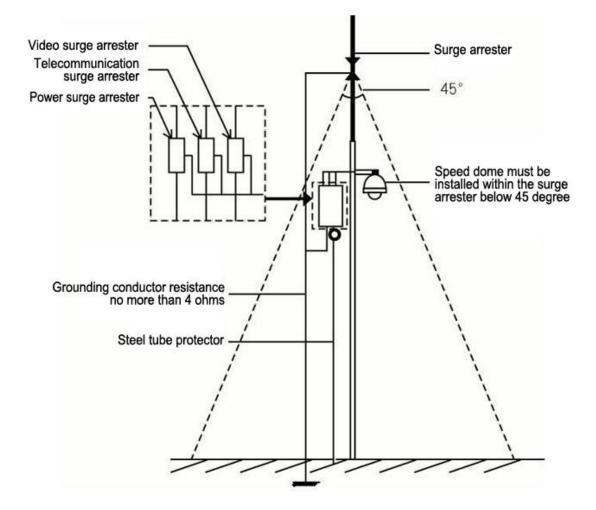
Appendix I Lightning and Surge

Outdoor Dome Camera need to consider lightening, anti-surge, on the premise of ensuring electrical safety, may take the following measures:

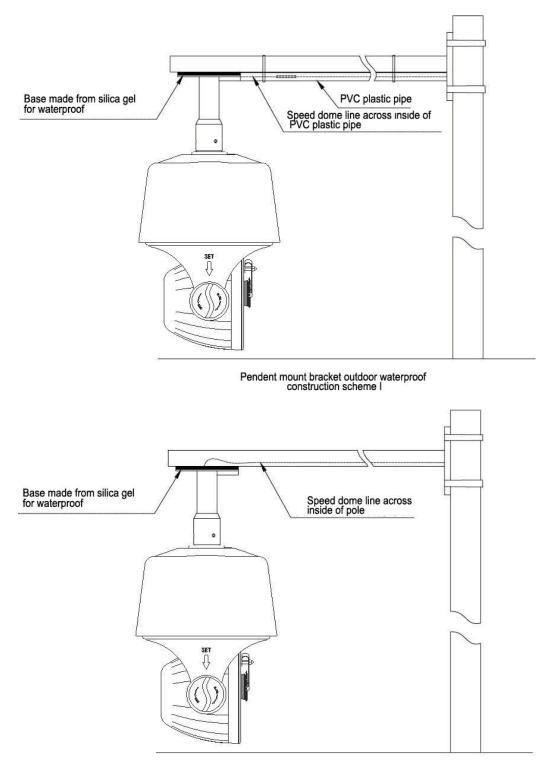
• Signal transmission lines and high voltage equipment or high voltage cables must be at least

50 meters distance between;

- Try to choose outdoor wiring along the eaves line;
- For open field must be sealed steel tubes buried cabling, grounding and steel pipe, the absolute prohibition of the use of overhead wiring;
- In areas of severe thunderstorm or high-voltage area (such as high-voltage substations), lightning protection equipment, as well as for additional installed power must be taken measures such as installing lightning rods
- Outdoor lightning protection and grounding design of devices and circuits must be combined with building mine requires unified consideration and in accordance with the requirements of the relevant national standards, industry standards;
- System must be equipotential earthing. Earthing system anti-interference must be met and the dual requirements of electrical safety, and shall not be mixed with strong power network neutral wire shorted or separately when grounding, grounding impedance less than 4 ohms, ground wire cut-area must be not greater than 25mm2 lines shorted

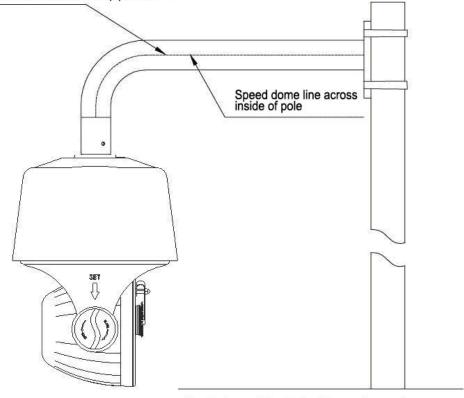


Appendix II::Hoisting construction Guide

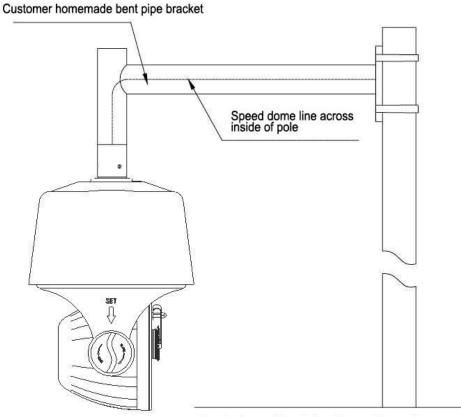


Pendent mount bracket outdoor waterproof construction scheme II

Customer homemade bent pipe bracket



Pendent mount bracket outdoor waterproof construction scheme III



Pendent mount bracket outdoor waterproof construction scheme IV