

XL-ICA-H660-SC110

6-inch Mega Pixel IP Speed Dome User's Manual



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Welcome

Thank you for purchasing our product!

This user's manual is designed to be a reference tool for the operation of your system.

Here you can find information about this IP speed dome features and functions.

Please keep it well for future reference.

Before installation and operation, please read the following safeguard and warning carefully!

Important Safeguard and Warning

1. Electrical Safety

All installation and operation should conform to your local electrical safety codes. We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation

2. Transportation Security

No heavy stress, violent vibration or water splash are allowed during transportation, storage and installation.

This series product must use split type package during the transportation.

We are not liable for any damage or problem result from the integrated package during the transportation.

3. Installation

Keep upwards. Handle with care.

Does not touch the lower dome cover; it may affect the video quality, Do not apply power to the dome before completing installation.

4. Qualified Engineers Needed

All installation here should be done by the qualified engineers.

All the examination and repair should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

6. Environment

This product has been tested and found to comply with the IP67 standard of Degrees of protection provided by enclosure (IP Code).

The dome should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

7. About Camera

Camera should be installed away from direct sunlight or other strong artificial lights to avoid blooming and smear.

When the camera is aiming at bright light or object, such as spotlight or sun, smear or blooming may appear.

Only use mild detergent or dry cloth to clean the camera.

8. About Accessories

Always use all the accessories recommended by manufacturer.

Before installation, please open the package and check that all the components are included in the package:

Contact you local retailer ASAP if something is missing in your package.

1 Features and Functions

1.1 General Introduction

This 6-inch mega pixel IP dome integrates the remote network monitor function and integration high intelligent speed dome together. It is easy to install and operate. This series IP speed dome has mega pixel vivid video and supports intelligent recognition, alarm activation, wide dynamic region (WDR) function and etc. It can guarantee the stability of audio/video data transmission and control data transmission via network technology, so that this series product can realize real-time monitor in anytime and at any where. Working with the built-in PTZ, the 6-inch mega pixel IP speed dome can implement the quick, accurate and convenient positioning surveillance.

1.2 Feature

This series IP speed dome has the following features:

1.2.1 Storage

- z Support central server backup function in accordance with your configuration and setup to save audio/video data.
- z Support record via Web and the recorded file are storage in the client-end PC.
- z Support local Micro SD card hot swap and memory backup function, support short time backup when encounter network connection failure.

1.2.2 Network Monitor

- z Supports audio/video data transmit to network terminal and then decode. Audio and video transmission protocol: HTTP, TCP, UDP, MULTICAST and RTP/RTCP and etc.
- z Support Web access. Max supports 10 connections.

1.2.3 Support multiple protocols

z This series speed dome supports and intelligently recognize universally used protocols PELCO-P and PELCO-D. You can use various devices (such as matrix, control keyboard and DVR) and protocols to control the IP speed dome.

1.2.4 Proportional Pan and Tilt

- z This function keeps the image from moving too fast when there is a large amount of zoom.
- z Speed dome continually decreases or increases pan and tilt speeds in proportion to depth of zoom. When zooms speed is increasing, the camera moving speed becomes slow. When zooms speed is decreasing, the camera moving speed becomes fast.

1.2.5 Preset Setup and Recall

Z Preset function is to save the address information (such as PTZ pan/tilt, focus and etc) to the memory so that you can quickly adjust the dome and PTZ to the correct position. This series speed dome supports 200 presets.

1.2.6 Auto Scan

z Camera scans back and forth regularly in a horizontal field. Here you need to set left and right limit and scan speed. This series IP speed dome max supports 5 scanning paths either via control keyboard or via the menu in screen.

1.2.7 Auto Cruise (Touring)

Auto cruise is to add presets into a routine in a desired order and then set time and stop duration for each address. The dome will begin an auto cruise between these presets.
 System supports 8 cruise paths. Each cruise consists of max 32 presets.

1.2.8 Auto Pattern

z Auto pattern is to memorize dome operation such as pan, tilt, and zoom to repeat. Focus and iris are in auto mode during auto pattern. This series IP speed dome supports 5 pattern paths.

1.2.9 Action on Alarm

- z This series speed dome support seven alarm inputs (normal close or normal open). Each alarm has tree types of PTZ actions. It can be individually programmed to initiated pattern, or go to an associated preset, cruise (touring) when received. The IP dome will return to a previously programmed state after alarm acknowledgement or to its previous position before alarm.
- z For video loss alarm or camera masking alarm, the IP speed dome can alert you according to your setup (either pop up prompt or alarm). System can activate corresponding channel to record video or snapshot. The alarm information will be saved in the SD card or be sent to you via email.

1.2.10 Auto Flip

z This function allows you to trace the object manually. As long as you continue to hold the keyboard joystick in the down position, the dome rotates 180 degrees and repositions itself for uninterrupted viewing of any subjects that passes directly beneath the dome.

1.2.11 Self-diagnosis

There is a self-diagnosis procedure when IP dome boots up.

- z Tilt and vertical engine check
- z Camera diagnostics (mainly the zoom function diagnostics)

1.2.12 Day/Night Mode (B/W & Color Mode)

In auto mode, the camera can automatically adjust CCD light level.

1.2.13 Auto Focus

z Auto focus allows the lens to remain in focus during zoom-in, zoom-out and motion functions to get vivid image. You can use FAR or NEAR button to adjust focus manually.

1.2.14 Pan Tilt and Zoom

z Supports zoom in and zoom out during tilt and pan movement. In this period focus and iris are both in auto mode to get vivid video.

1.2.15 3D Intelligent Location

z Working with DVR or WEB, just click part of the current scene, that zone will be displayed in the central window and automatically zooms. All of these allow you to trace precisely.

2 Cable Connection

2.1 RS485 and Power Cable Connection

This series mega pixel IP speed dome has audio cable port, network port and power port. These ports are to input audio, output signal, network data and connect to the power source.

Please connect the audio cable to the audio port of the device board, connect the network cable to the network port of the device board, and connect the power cable to the power socket of the device board respectively. See Figure 2-1 and Figure 2-2.







Figure 2-2

Name		Function
AUDIO	OUT	Audio output port.
	GND	Ground port.
	IN	Audio connection port.

Power port connection interface is shown as in Figure 2-3.



Figure 2-3

Name	Function
AC24V	24V power port. Connect to the power cable.
EARTH	Ground port.
AC24V	24V power port. Connect to power cable.

2.2 Alarm Cable Connection

Open the dome cover and take PTZ chip core out. Turn the core upside down; you can see the alarm port. See Figure 2-4.



Figure 2-4

Name	Function		
Alarm out: 1-2	z Two alarm output channels. When there is an alarm from curren channel, system activates relay or not.		
	z Alarm output relay default setup is NO. You can use the jump- cap near the power board relay to set.		
	z NO: Normal open alarm output.		
	z NC: Normal close alarm output.		
GND	Alarm input ground end.		
Alarm in: 1-7	z Seven alarm input channels. They are to receive relay signal from the external alarm source. You can go to dome menu to activate specified preset or patter.		
	When the activation mode is NO (normal open), dome alarms when there is low voltage. High voltage will not activate the alarm.		
	When the activation mode is NC (normal close), dome alarms when there is high voltage. Low voltage will not activate the alarm.		
	Note: z Dome alarm input message is ground mode. z Dome alarm input signal are two modes: normal open and		

	normal close.	

2.2.1 System Layout

2.2.1.1 System Connection

Please refer to the following interface for Ethernet connection information.



Please refer to Figure 2-6 for alarm cable connection.



2.2.2 Keyboard Connection

This series speed dome protocol is open and supports multiple popular system platforms in today's market. Please feel free to contact us if some matrix systems do not support dome camera communication protocol. The most direct and easy way is to use current system to process video signal and add some control keyboards to control speed dome. See Figure 2-7.



Figure 2-7

3 Quick Configuration Tool

3.1 Overview

Quick configuration tool can search current IP address, modify IP address. At the same time, you can use it to upgrade the device.

Please note the tool only applies to the IP addresses in the same segment.

3.2 Operation

Double click the "ConfigTools.exe" icon, you can see an interface is shown as in Figure 3-1. In the device list interface, you can view device IP address, port number, subnet mask, default gateway, MAC address and etc.

(Con	figTool					×
D	evic	e List					
Γ	SN	IP Address	Port	Subnet Mask	Default Gat	Mac Address	
ľ	1	10.7.6.47	37777	255.255.0.0	10.7.0.1	52:54:4c:ff:90:5d	
Ι.	2	10.7.8.21	37777	255.255.0.0	10.7.0.1	52:54:4c:fd:58:e4	
	3	10.7.10.104	37777	255.255.0.0	10.7.0.1	52:54:4e:fd:58:51	
	4	10.7.2.2	37777	255.255.0.0	10.7.0.1	00:05:23:16:24:48	
	5	10.7.1.113	37777	255.255.0.0	10.7.0.1	52:54:4c:fa:35:37	
	6	10.7.10.91	37777	255.255.0.0	10.7.0.1	00:12:26:45:23:65	
	7	192.168.0.108		255.255.0.0	192.168.0.1	00:1a:6b:90:57:db	
	8	10.7.2.61	37777	255.255.0.0	10.7.0.1	00:09:30:ad:00:12	
II.							
	Tip:	You can click "log	in" butto	n directly and			1 (2)
ŀ	then input corresponding information to login. Kefresh(K) Login(L) Logout(L)						

Figure 3-1

Select one IP address and then right click mouse, you can see an interface is shown as in Figure 3-2.

Сот	nfigTool					X
Devio	ce List					
SN	IP Address	Port	Subnet Mask	Default Gat	Mac Address	
1 2 3 4 5 6 7 8	10. 7. 6. 47 10. 7. 8. 21 10. 7. 10. 104 10. 7. 2. 2 10. 7. 1. 113 10. 7. 10. 91 192. 168. 0. 108 10. 7. 2. 61	37777 37777 37777 37777 37777 37777 37777 37777	255, 255, 0, 0 255, 255, 0, 0	10.7.0.1 10.7.0.1 10.7.0.1 10.7.0.1 10.7.0.1 10.7.0.1 <u>Open Device</u> 10.7.0.1	52:54:4c:ff:90:5d 52:54:4c:fd:58:e4 52:54:4c:fd:58:51 00:05:23:16:24:48 52:54:4c:fa:35:37 94:45:23:65 Web :90:57:db 00:05:30:ad:00:12	
Tip: then	Tip: You can click "login" button directly and then input corresponding information to login. Refresh(R) Login(L) Logout(C)					

Figure 3-2

Select the "Open Device Web" item; you can go to the corresponding web login interface. See Figure 3-3.

🖉 Willservice - Windows Internet Explorer			- IJ 🔀
() · @ [4.pet/13.10.3.15/		✓ ++ × 接限	P
👻 🎪 😹 WETHOUVEN		🌆 • ⊠ • 🚔 • 🕞 •	aze - 🎒 sels - 👩 -
	WEB Service= vr. a Ton New Pasovec:		
Dire		📑 💕 Saterael	H 100% +

Figure 3-3

If you want to modify the device IP address without logging in the device web interface, you can go to the configuration tool main interface to set.

In the configuration tool search interface (Figure 3-1), please select a device IP address and then double click it to open the login interface. Or you can select an IP address and then click the Login button to go to the login interface. See Figure 3-4.

In Figure 3-4, you can view device IP address, user name, password and port. Please modify the corresponding information to login.

Please note the port information here shall be identical with the port value you set in TCP port in Web Network interface. Otherwise, you can not login the device.

If you are use device background upgrade port 3800 to login, other setups are all invalid.

Login	
IP Address:	10.10.3.16
User Name:	admin
Password:	****
Port:	37777
	Login Cancel

Figure 3-4

After you logged in, the configuration tool main interface is shown as below. See Figure 3-5.

ConfigTool			×
General Parameter			NetWork Parameter 丿
	DHCP Enable		PPPOE
IP Address:	10. 10. 3. 16]	System Information
Subnet Mask:	255. 255. 0. 0		System Upgrade
Gateway:	10. 10. 0. 1]	
Mac Address:	52:54:4c:fa:43:6d		
		(]
		Return (C)	

Figure 3-5

For detailed information and operation instruction of the quick configuration tool, please refer to the *Quick Configuration Tool User's Manual* included in the resources CD.

4 Web Operation

4.1 Overview

IP speed dome support Web access via PC to manage device.

Web operation consists of the following operation sections: monitor channel, record search, alarm setup, system setup, PTZ control and monitor window.

4.2 Login

Before web operation, please check the following items:

- z PC and IP speed dome connection is OK.
- You have set PC IP address, IP speed dome IP address, subnet mask and gateway.
 (Please set the IP address of the same section for the PC and IP speed dome. Please input corresponding gateway and subnet mask if there are routers.) IP speed dome default IP address is 192.168.1.108.
- Use order ping ***.***.***(IP speed dome IP address) to check connection is OK or not.
 Usually the return TTL value should be less than 255.

Open IE and input device IP address in the address column. For example, if your device IP is 192.168.1.108(factory default IP address), then please input http:// 192.168.1.108 in IE address column. See Figure 4-1.



Figure 4-1

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

If you can't download the ActiveX file, please modify your settings as follows. See Figure 4-2.

Internet Options	Security Settings - Internet Zone
General Security Privacy Content Connections Programs Advanced	Settings
Select a zone to view or change security settings.	O Disable
	Download signed ActiveX controls (not secure) Disable
Internet Local intranet Trusted sites	Enable (not secure) Prompt (recommended)
Internet Sites Sites	Download unsigned ActiveX controls (not secure) Disable (recommended) Enable (not secure) Prompt
Security level for this zone Allowed levels for this zone: Medium to High	Initialize and script ActiveX controls not marked as safe for su Disable (recommended) Enable (not secure) Prompt
Prompts before downloading potentially unsafe content Unsigned ActiveX controls will not be downloaded	Run ActiveX controls and plug-ins deministrator approved
Custom level Default level Reset all zones to default level	Reset custom settings Reset to: Medium-high (default)
OK Cancel Apply	OK Cancel

Figure 4-2

After installation, the interface is shown as below. See Figure 4-3.

Please input your user name and password.

Default factory name is admin and password is admin.

Note: For security reasons, please modify your password after you first login.



Figure 4-3

After you logged in, you can see the main window. See Figure 4-4. There are six sections:

- z Section 1: Monitor channel menu tree
- z Section 2: System menu
- z Section3: PTZ control
- z Section4: Color setup and other setup
- z Section5: Preview window
- z Section 6: Monitor window switch

WEB Service=	SFARCH ALARM	CONFIG ADOLIT	LOCOUT		
Bi con t Coon All Rendsh StartDialoo * Luca Play	No visez	िल		E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	lo usoz.	tta anti-a≞tta ene se Novidoo		中 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
		CupyFight 2018 41 Fightle Rex	unvud		
	\mathcal{O}	Figure 4-	4	5	

2

Please refer to 6-inch mega pixel IP Speed Dome Web Operation Manual included in the resource CD for detailed information.

5 Performance Specification

Specification		Index	
	Sensor Type	1/3-inch CCD	
Camera	Video Format	PAL/NTSC	
	Pixel	1.30 mega pixle, 1280 (Pan) *960 (Tilt)	
	Min Illumination	0.02Lux@F1.6	
	Shutter Speed	1/4~1/100000	
	Standard Supported	PAL : 1f/s-25f/s NTSC: 1f/s-30f/s	
	Encode capacity	One 720P+one D1	
Video	Encode bit stream	1.3M (1280*960) 720 (1280*720) VGA (640*480) QVGA (320*240) D1 (704*576/704*480) HD1 (352*576/352*480) CIF (352*288/352*240) QCIF (176*144/176*128) QQVGA (160*128)	
	Encode Speed	 1.3M signal mode: NTSC 1f/s-15s for each channel (Adjustable). PAL 1f/s-1f/s for each channel (Adjustable) 720P signal mode; NTSC 1f/s-30f/s for each channel (Adjustable). PAL 1f/s-25f/s for each channel (Adjustable) 	
Power Consumption		50W	
Power		24V AC	
Temperature		-40∼+60ºC	
Protection Level		IP66	
Working Environment Humidity		<90%	
Package Dimension		525mm*325mm*340mm	
Weight		5kg	

6 Function Specification

Specification		Note	
	Zoom Adjustment	Manual	
Lens Control	Focus Adjustment	Auto/Manual adjust	
	Aperture Adjustment	Auto /manual adjust	
	Preset	255 ((PELCOD、PELCOP protocl)	
	Auto Tour 8		
	Auto Pattern	5	
	Auto Scan	5	
PTZ Control	Focus speed auto control	Auto adjusts the speed according to the focus distance.	
	Auto flip	Tilt 90 degrees auto flip to realize 180 degrees continuing trace	
	Auto rotation speed	0.1°~300°/s	
	Preset max speed	300°	
	Manual tilt flip speed	0.1°~150°/s	
	White balance adjustment	Auto	
Video Process	Color/B&W(Day/Night) switch	Auto	
	Signal input type of camera property	1.3M /720P	
Video	Video compression	H.264 video comrpression standard	
VIGEO	Motion Detection	Support motion detection zone setup.	
	Dual-stream	Support one main stream and one extra stream.	
A		Bidirectional Talk .Delaying value within 200ms	
Audio		Audio Listening .Support 1-ch MIC input.	
		WEB Access	
		PPPoE	
		DHCP	
		DDNS	
Notwork		SMTP	
INELWOIK		NTP	
		DNS	
		Support IP address auto search function	
		Support IP address filter function	
Record	Schedule Record	6 periods in one day. This series product does not support this function	
		After enabling manual record no	
	Manual Record	matter system is in schedule or alarm status or not, system just begins recording.	

	Alarm Record	System automatically enables recording function when alarm occurred.
	Motion Detection Record	When input video changes, system automatically enables record operation.
OSD	Time Title Display	Transparent value ranges from 0 to 255. O means completely transparent and 255 is opaque.
	Channel Title Display	Please refer to the above information.
Storage		Local Micro SD storage .Support high-speed card/low-speed card.
		Based on SDK network storage
		2-ch alarm output.
Alarm		7-ch local alarm/network alarm input
		Activate alarm via motion detection or external input. Please enable pre-record function when activating the alarm
		Upload image via email.
Event Managem	nent	Send out alarm notice via email, external port. Need anti-dither supported when alarm occurs frequently.
		Support video short-time buffer storage function before or after alarm . Pre-record is 2Mbytes Buffer storage 5 seconds video
Control		PTZ control via Web
Device Upgrade		Network remote upgrade .Working wit the upgrade tool in the resource CD.
		COM upgrade. Working wit the upgrade tool in the resource CD.
Device Management		Log in the client-end software in the PC to realize real-time monitor.
Parameter Configuration		IP speed dome provides user interface to modify device information, video information, record setup, motion detection setup, alarm setup, OSD information.
		interface to search log, status, user management, email setup, time and date setup to check system running information.
Log		Important event log record. It can record the following information: System operation, setup operation, alarm event, record

	management, user management, clear log.
Digital watermark	Prevent from unauthorized data modification.
RESET	Support hardware/software/Watchdog reset Watch dog max support 35 seconds.
	7 alarm input ports
	2 alarm output ports
Interface	1 analog audio input put and 1 analog audio output port.
	1 network port (RJ45 10M/100M self-adaptive Ethernet port)
	1 Micro SD card port. Support high-speed card/low-speed card.
Installation	Suspended, wall mount and embedded installation

7 Factory Default Setup

Function Configuration Type	Item Name		Default setup
General Setup	Date format		Y-M-D
	DST		Disable
	Date separator		د ،
	Time format		24H
	Language		Simplified Chinese
	When HDD is full		Overwrite
	Record duration		60M
	Device No.		8
	Video type		PAL
Encode Setup	Main stream	Channel	Channel01
		Encode mode	H.264
		Stream Type	Main stream
		Audio/Video	Enable audio and video
		enable	
		Resolution	720
		Frame rate	25
		Bit stream control	VBR
		Quality	Good
		Bit stream value	2048
		I frame interval	50
		control	
	Extra stream	Stream Type	Extra stream
		Audio/Video	Enable video
		enable	
		Resolution	QVGA
		Frame rate	15
		Bit stream control	VBR
		Quality	Good
		Bit stream value	384
		I frame interval	50
		control	
	Watermark		Enable
			Watermark: all
			Watermark type:
			character
			Watermark: Digital CC I V
	Privacy mask		Never
	Time title		Enable. OSD
			transparent :128
	Channel title		Enable. OSD
			transparent :128
Record Setup	Channel		Ch01
	Pre-record		5 seconds.
	Period Setup	Start time	0:00:00
		End time	23:59:59
		Record	Period 1:Enable motion
			detection/alarm
		Snapshot	Period 1::Enable motion
			detection/alarm
	- ·	Week	Sunday
COM Setup	Option		COM01

	Function	General
	Data bit	8
	Stop bit	1
	Baud rate	115200
	Dadu Tale	Nono
Notwork Sotup	Ethornot	Port 01
Network Setup		Diaghla
	IP address	192.168.1.108
	Subnet mask	255.255.0.0
	Gateway	192.168.0.1
	Device name	Device factory default
	TCP port	37777
	HTTP port	80
		37778
	Network uppr connection amount	10
	Network user connection amount	10 Dischla
	Network transmission Qo5	Disable
	Remote host	Multiple broadcast group
	Enable	Disable
	IP address	239.255.42.42
	Port	36666
	Email setup	Enable
	Multiple DDNs	Disable
	NAS setup	Disable
	NTP setup	Disable
	Alarm server	Disable
Alarm Setup	Event type	Local
	Alarm input	Input 01, disable
	Туре	Normal open
	Setup	Period:
		Start time 0:00:00
		End time:23:59:59
		Period 1:enable
		Week: Sunday
	Anti-dither	0 second
	Alarm output	Disable
	Alarm latch	10 seconds
	Record channel	1 enable
	Record latch	10 seconds
	Send email	Enable
	PTZ activation	Disable
		Event type: never
		Address: 0
	Snapshoot	Disable
Video Detection	Event type	Motion detection
	Channel	Ch01, Disable
	Sensitivity	3
	Time period setup	Period:
		Start time 0:00:00
		End time:23:59:59
		Period 1:enable
		Week: Sunday
	Anti dithor	5 coopdo
	Alarm latch	TU SECONDS

	Record channel		Disable
	Record latch		10 seconds
	Send email		Disable
	PT7 activation		Event type: Never
			Address: 0
			Disable
	Spanshot		Disable
DTZ Sotup	Chappel		
PTZ Selup			
	PIOLOCOI		
	Address		
	Baud rate		38400
	Data bit		8
	Stop bit		1
	Parity		None
Default and Backup	All		Disable
	General		Disable
	Encode		Disable
	Record		Disable
	СОМ		Disable
	Network		Disable
	Alarm		Disable
	Video detection		Disable
	Display output		Disable
	Channel name.		Disable
Advanced		Event Type	No disk. disable
			,
	Abnormity	Alarm Output t	Disable
		Alarm Latch	10 seconds
		Send email	Disable
	Record control		
			Auto Ch1
	Llser account		
			admin password: admin
			888888 password: 8888888 (reusable)
			6666666 password:
			default password: tluafed
	Snapshot	Channel	Ch01
		Snapshot mode	Scheduled
		Frame rate	1f/s
		Resolution	D1
		Quality	60%
	Auto maintain	Auto reboot	02.00 everday
		Auto delete old	Never
		files	
Camera Property	Channel		1
	Exposure mode Day/night mode Backlight compensation White balance Signal Type Mirror Flip		
			N/A
			N/A
			N/A
			/20P
			N/A
			N/A

Auto registration	Enable	Disable
	SN	1
	IP	0.0.0.0
	Port	7000
	Device ID	Dahua
DNS Setup	DNS	202.101.172.35
	Alternative DNS	202.101.172.35

8 FAQ

Bug		
SD card write times	Do not set the SD card as the storage media to storage the schedule record file. It may damage the SD card duration.	
I can not use the disk as the storage media.	When disk information is shown as hibernation or capacity is 0, please format it first (Via Web).	
I can not upgrade the device via network.	The status indication light is shown as red when network upgrade operation failed. You can use port 3800 to continue upgrade.	
Recommended SD card brand	Kingston 4GB、Kingston 1GB、Kingston 16GB、Transcend 16GB、SanDisk 1G、SanDisk 4G	
	Usually we recommend the 4GB (or higher) high speed card in case the slow speed results in data loss.	
Audio function	Please use active device for the audio monitor input, otherwise there is no audio in the client-end.	

9 Appendix I Daily Maintenance and IP Speed Dome FAQ

9.1 Daily Maintenance

Please clean dome cover regularly to get vivid image.

Handle the cover with care. Use water to wash. Don't use cloth to clean.

Use mild detergent to clean if there is too much dust.

Note:

The sweat from your hand may erode plating surface, your nail may scrape dome cover result in blur image.

9.2 FAQ

SYMPTOM	CAUSE	SOLUTION
No self-diagnosis,	Red LED is not on.	z Check 24V AC power is
no video signal	z 24V AC does not apply to	connected or properly
when I connect	the power. Or connection is	earthed.
dome to power.	too loose.	z Check power supply condition
	z Power off or Transformer	or check 24V transformer.
	problem.	
	Red LED light is on	z Use multimeter to check
	z 24V AC power is low	dome load. If it is lower than
	z Something wrong with power	24V AC, then the IP speed
	SOCKET.	dome can not work.
		z Please contact your local
		retailer to replace power
No self diagnosis	Power supply is inadequate	SUCKEL. Replace power socket
There is a noise	Mechanical malfunction	Need electrical engineer belo
Self diagnosis is ok	Power connection is too loose	Connect tightly
No video signal	Check the circuit connection	Connect again
No video signal	Video switch connection is wrong	Please refer to user's manual for
	or improper operation	cable connection information
Self diagnosis is OK	Control circuit is not properly	Check control cable connection
but I can not operate	connected	
the dome.		
	Dome address, protocol or baud	Please refer to user's manual for
	rate setup is not right.	detailed setup information.
Video signal loss	Power supply is not sufficient	Replace power socket.
occurs in high speed		
rotation.		
Video signal is not	Circuit connection is too loose.	Connect tightly.
successive	Video switch or power problem	Need electrical engineer help.
Video is not clear.	Focus is in manual mode.	Control manually.
	Dome cover is dirty.	Wash dome cover
During camera	Camera power is not in the same	When several domes are
switch, there is a tilt	Phase.	connected to one transformer,
movement in the		please connect the transformer
monitor.		output cable to the domes' same
		side.

10 Appendix || Thunder Proof and Surge Protection

This series speed dome adopts TVS lighting protection technology. It can effectively prevent damages from various pulse signals below 1500W, such as sudden lighting and surge. While maintaining your local electrical safety code, you still need to take necessary precaution measures when installing the speed dome in the outdoor environment.

- z The distance between the signal transmission cable and high-voltage device (or high-voltage cable) shall be at least 50 meters.
- z Outdoor cable layout shall go under the penthouse if possible.
- z For vast land, please use sealing steel tube under the land to implement cable layout and connects one point to the earth. Open floor cable layout is forbidden.
- z In area of strong thunderstorm hit or near high sensitive voltage (such as near high-voltage transformer substation), you need to install additional high-power thunder protection device or lightning rod.
- z The thunder protection and earth of the outdoor device and cable shall be considered in the building whole thunder protection and conform to your local national or industry standard.
- z System shall adopt equal-potential wiring. The earth device shall meet anti-jamming and at the same time conforms to your local electrical safety code. The earth device shall not short circuit to N (neutral) line of high voltage power grid or mixed with other wires. When connect the system to the earth alone, the earth resistance shall not be more than 4 Ω and earth cable cross-sectional area shall below 25 mm2. See Figure 10-1.



Figure 10-1

Note:

- z This manual is for reference only. Slight difference may be found in the user interface.
- z All the designs and software here are subject to change without prior written notice.
- z If there is any uncertainty or controversy, please refer to the final explanation of ours.
- z Please visit our website or contact your local retailer for more information.