

**IQCCTV**

**HD 960H**

# HD 960H 18x Zoom PTZ Speed Dome Camera



**960H**

960H  
Resolution

**18x**

18x Zoom

**360°**



High Speed  
Pan & Tilt

**IP66**

Weatherproof  
Rated



Low Lux  
Level

## User Manual

Version 1

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## Warning



Risk of electric shock  
Don't open



**Warning:** To reduce the risk of electric shock, non-professional personnel should not remove the cover.

**Caution:** To prevent electric shock and fire hazards, please don't use a power supply not listed in the manual.



This symbol alerts the user to operate and maintain the product according to the manual.



This symbol alerts the user to be careful as the product may lead to serious shock hazard.

**Caution:** Any changes or modifications in construction of the product that are not approved by our company, may affect the functionality of the camera.

## Precautions

- > Install and use the camera in an environment where temperatures DO NOT exceed  $-20^{\circ}\text{C}$  ~  $+50^{\circ}\text{C}$  and maintain good ventilation.
- > Do not use the camera in a high pressure or highly corrosive environment.
- > Do not install the camera in a place where lighting conditions are not stable.

## 1. Product Overview

Thank you for purchasing the IQC960S18 Internal/External 18x Zoom Mini Speed Dome Camera from IQCCTV.

The camera features a wide-angle megapixel lens to capture more without the need to adjust the camera. The dome is ideal for indoor or outdoor use (IP66 Rated) and has a cable managed and compact design.

The IQC range of 960H cameras from IQCCTV are designed to offer crystal clear images and amazing value for money, this is achieved by removing high-end features not needed in everyday applications.

### 1.1 Product Features

**960H**

960H  
Real Time

**18x**

18x Zoom

**360°**



High Speed  
Pan & Tilt

**IP66**

Weatherproof  
Rated







Low Lux  
Level

- HD 960H Resolution
- Control from any Pelco D/P compatible DVR or Controller
- IP 66 Rated
- 3.9-85.8mm (3-63°) Auto Iris Lens
- Cable Managed Bracket
- Durable High Quality Housing
- Internal/External
- High Speed Pan Tilt & Zoom

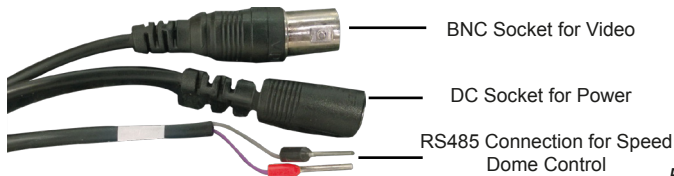
## 2. Product Contents

Before installing this product, please ensure that it contains the following;

Contents	
	1x IQC960S18 Speed Dome Camera
	1x User Manual
	1x Installation Pack
	1x Wall Bracket 1x Ceiling Bracket

**Please Note:** This item does not include a Cable or Power Supply. A 12V DC Power Supply and 20m Cable are available as an accessory (Model IQ20C1)

### 2.1 Connections



### 3. Installation

The IQC960S18 is designed to be wall or ceiling mounted using the cable managed brackets supplied. To install the camera, please follow the steps below.

#### Ceiling Mount

1. Add the bracket extension to the ceiling camera bracket.



2. Using the bracket as a stencil, mark out the drill holes needed in the wall.



3. If feeding wires through the ceiling you will need to drill a hole through the ceiling for the wires to go. However, if placing through the bracket, you can just feed through the side.



4. Drill the holes in the ceiling where you made the stencils. If feeding the cables through the ceiling, drill a hole for the cables to go.



5. Feed the wires through the bracket.



6. Attach the camera bracket to the camera using a cross head screw driver and turning the screws clockwise



7. Lastly, screw the bracket into the ceiling.



## Wall Mount

1. Using the bracket as a stencil, mark out the drill holes needed in the wall.



2. If feeding wires through the wall you will need to drill a hole through the wall for the wires to go. However, if placing through the bracket, you can just feed through the side.



3. Drill the holes in the wall where you have made the marks. Insert wall plugs here if required.



4. Remove the main camera from the bracket. To do this, use a cross head screw driver and turn screws in anti-clockwise.

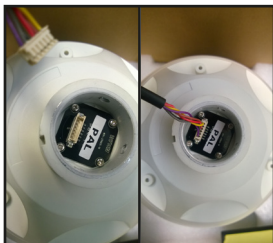




5. Now, thread the cable from the main camera back through the bracket.



6. Then, attach the cable to the camera as shown below.



7. Re-attach the main camera to the bracket. To do this, use a cross head screw driver and turn screws in clockwise.



8. Lastly, screw the bracket into the wall.



## 4. Camera Operation

The Speed Dome camera will be controlled through the DVR using the arrow keys etc. However, it is advised to use an external Speed Dome controller, for more control over the camera.

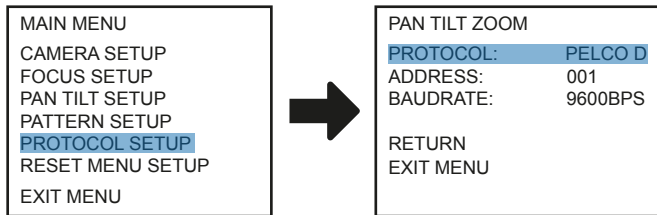
### 4.1 Setup Camera Address

1. When the camera has initially been switched on, the OSD will display 485 baudrate, address and protocol (as shown below).

```
P27X02
  20 02
  INITIAL...
  PROTOCOL: PELCO-D
  ADDRESS: 001
  BAUDRATE: 9600BPS
  INPUT PELCO COMMAND:
  (IRIS OPEN)---OSD MENU
  (IRIS CLOSE)---AUTO FOCUS
  (GOTO PRESET 95)--OSD MENU
```

To make the Speed Dome Controller will work with the camera, make sure you have the baudrate, address and protocol matching on both.

2. Change the camera's protocol by calling Preset 95 and entering the OSD menu.



3. Click on the sub-menu of protocol and use the arrow keys to adjust each parameter. When finished, navigate to the 'Return' option to save.

## 5. OSD Menu

Enter into the OSD menu by calling Preset 95. The menu allows you to adjust camera settings such as focus, pan tilt zoom and protocol.

### 5.1 Camera Setup

MAIN MENU

**CAMERA SETUP**

FOCUS SETUP

PAN TILT SETUP

PATTERN SETUP

PROTOCOL SETUP

RESET MENU SETUP

EXIT MENU



PAN TILT ZOOM

**SHUTTER:** AUTO

WHITE BALANCE: ↓

BACKLIGHT: OFF

PIC ADJUST: ↓

NEXT

RETURN

EXIT MENU

#### Shutter/AGC

Auto: Auto set shutter and AGC

Manual: Manually set shutter and AGC

#### White Balance

Adjust the white balance on the camera.

#### Backlight

Set the backlight options, choose from setting backlight compensation, highlight suppression or turn the function off.

#### Pic Adjust

Adjust the picture functions. Here you can set; mirror function, brightness, contrast, image sharpness, hue and gain.

#### ATR

Turn the ATR function on or off.

### **Motion Detection**

Turn the motion detection function on or off. If set to on, you can set the detection areas and sensitivity.

### **Privacy**

This option allows you to set the privacy zones on the camera.

### **NR**

Turn the Noise Reduction function on to improve picture quality. You can set the NR levels according to your application.

### **Camera ID**

Set the Camera ID on the camera.

### **Return**

Return to the previous Menu.

### **Exit Menu**

Exit the menu.

## 5.2 Focus Setup

MAIN MENU  
CAMERA SETUP  
**FOCUS SETUP**  
PAN TILT SETUP  
PATTERN SETUP  
PROTOCOL SETUP  
RESET MENU SETUP  
EXIT MENU



FOCUS SETUP  
**FOCUS TYPE: AUTO**  
AF AFTER MOVE: ON  
PRESET LOAD ZOOM: ON  
DISPLAY ZOOM TIMES: OFF  
  
RETURN  
EXIT MENU

### Focus Type

Auto: Camera will automatically focus  
Manual: Manually focus the camera

### Auto Focus After Move

Set the camera to automatically focus after it has panned, tilted or zoomed.

### Preset Load Zoom

Automatically adjusts the focus when you apply the preset scan modes.

### Display Zoom Times

Set the display zoom times.

On: Display zoom times  
Off: Turn off display of zoom times

### Return

Return to the previous Menu.

### Exit Menu

Exit the menu.

## 5.3 Pan Tilt Setup

MAIN MENU  
CAMERA SETUP  
FOCUS SETUP  
**PAN TILT SETUP**  
PATTERN SETUP  
PROTOCOL SETUP  
RESET MENU SETUP  
EXIT MENU



PAN TILT SETUP  
**TILT LIMIT SET: SET**  
TILT LIMIT RESET: SET  
PAN TILT LIMIT SPEED: 063  
ZOOM LIMIT SPEED: 063  
RETURN  
EXIT MENU

### Tilt Limit Set

Set the upward tilting limit. To do this, move the camera to the limit you wish using the arrow keys on the controller. Then, press the 'Iris Open' key to confirm.

### Tilt Limit Reset

Reset the Tilt limit to default. To do this, use the arrow key to navigate to the 'Tilt Limit' 'Reset' option and press the 'Iris Open' button.

### Pan Tilt Limit Speed

Set the panning and tilting speed on the camera. Adjust speeds from 0-63 with 63 being the fastest.

### Zoom Limit Speed

Set the zoom speed on the camera. Adjust speeds from 0-63 with 63 being the fastest.

### Return

Return to the previous Menu.

### Exit Menu

Exit the menu.

## 5.4 Pattern Setup

MAIN MENU  
CAMERA SETUP  
FOCUS SETUP  
PAN TILT SETUP  
**PATTERN SETUP**  
PROTOCOL SETUP  
RESET MENU SETUP  
EXIT MENU



PATTERN SETUP  
**PATTERN TOUR: STOP**  
PATTERN POINT NUM: 000  
PATTERN DWELL TIME: 010  
  
RETURN  
EXIT MENU

### Pattern Tour

Stop: Stop pattern

Start: Start pattern

### Pattern Point Num

This allows you to set the number of preset positions in the cruise. For example, if set to 5, the pattern will cruise between 1-5 preset points.

### Pattern Dwell Time

Set the time that each preset position will stay in that position. You can adjust the time from 0-10 seconds per preset position.

### Return

Return to the previous Menu.

### Exit Menu

Exit the menu.

## 5.5 Protocol Setup

MAIN MENU  
CAMERA SETUP  
FOCUS SETUP  
PAN TILT SETUP  
PATTERN SETUP  
**PROTOCOL SETUP**  
RESET MENU SETUP  
EXIT MENU



PAN TILT ZOOM  
**PROTOCOL:** PELCO D  
ADDRESS: 001  
BAUDRATE: 9600BPS  
  
RETURN  
EXIT MENU

### Protocol

Change the protocol on the camera to match your speed dome controller. Adjust the protocol from Pelco D or P.

### Address

Change the address on the camera so that you can control more than one camera on your controller. Addresses can be set 1~255.

### Baudrate

Set the baudrate of the camera. Can set the rates  
1200BPS/2400BPS/4800BPS/9600BPS

### Random Address

When using the address 255, press the IRIS-OPEN button to enter the OSD and choose the 'PAN TILT SETUP' sub-menu. The Return option (as shown above) will become 'Random Address'. When in 'Random Address' press the 'IRIS-OPEN' key and this will create a random address

### Return

Return to the previous Menu.

### Exit Menu

Exit the menu.



## 5.6 Reset Menu Setup

MAIN MENU  
CAMERA SETUP  
FOCUS SETUP  
PAN TILT SETUP  
PATTERN SETUP  
PROTOCOL SETUP  
**RESET MENU SETUP**  
EXIT MENU



RESET MENU SETUP: SET  
**FACTORY DEFAULT SETUP: SET**  
  
RETURN  
EXIT MENU

### Reset Menu Setup

Set the PTZ menu to the factory default settings.

### Factory Default Set

Reset all parameters to the original factory settings.

### Return

Return to the previous Menu.

### Exit Menu

Exit the menu.

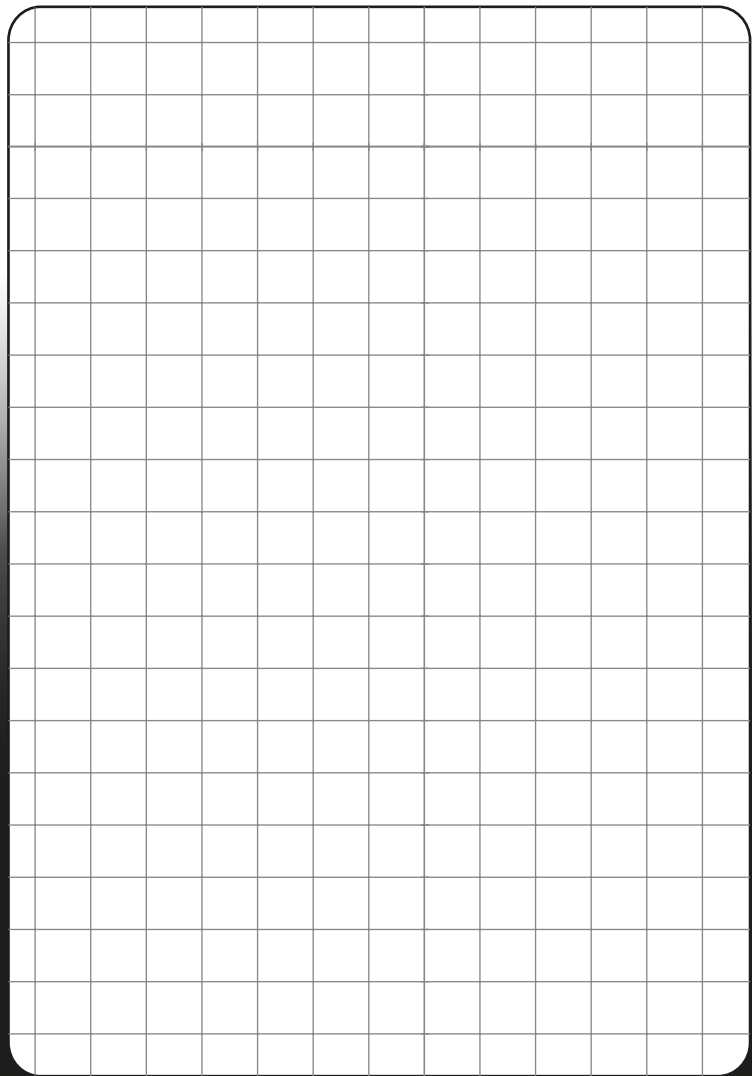
## 6. OSD Map

OSD SET	LENS	MANUAL		
		AUTO	TYPE: DC / VIDEO MODE: CLOSE / AUTO / OPEN SPEED: 0-255	
	SHUTTER /AGC	AUTO	HIGH LUMINANCE MODE: SHUT+AUTO IRIS/AUTO LENS	
			BRIGHTNESS: 0-255	
			LOW LUMINANCE MODE: OFF/AGC	
		MANUAL	BRIGHTNESS: x0.25, x0.5, x0.75, x1	
			MODE: SHUT+AGC	
			SHUTTER: 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 AGG: 6, 12, 18, 24, 30, 36, 42, 44.8	
	WHITE BAL	ATW	SPEED / DELAY CNT / ATW FRAME / ENVIRONMENT	
		PUSH / ANTI CR / PUSH LOCK / USER1 / USER 2 / MANUAL		
	BACK LIGHT	OFF / BLC / HLC		
	PIC ADJUST	MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN		
	ATW	OFF		
		ON	LUMINANCE / CONTRAST	
	MOTION DETECTION	OFF		
		ON	DETECT SENCE / BLOCK DISP / MONITOR AREA / AREA SEL / TOP / BOTTOM / LEFT / RIGHT	
	PRIVACY	OFF		
		ON	AREA SEL / TOP / BOTTOM / LEFT / RIGHT COLOUR / TRANSP / MOSAIC	
	DAY/NIGHT	COLOUR		
		B/W	BURST: OFF/ON	
		AUTO	BURST: OFF/ON	
	DELAY CNT / DAY-NIGHT / NIGHT-DAY			
	NR	NR	MODE: Y/C, OFF, Y, C	
	CAMERA ID	OFF/ON		
	SYNC	INT		
	LANGUAGE	ENGLISH / CHINESE / JAPANESE / ESPANOL / PORTUGUES / PYCCKNN / FRANCAIS / DEUTCH		
	CAMERA RESET / BACK / EXIT / SAVE ALL			

## 7. Specifications

### Camera Specifications

<b>Image Sensor</b>	1/3 Sony Super HAD CCD II
<b>Resolution</b>	960H
<b>Lens Size</b>	3.9- 85.8mm
<b>Minimum Illumination</b>	0.001 Lux
<b>Weight (Kg)</b>	4.5
<b>Power Supply</b>	12v DC 800mA
<b>Operating Temperature</b>	-10°C ~ 50°C
<b>Dimensions (WxHxD)</b>	200x310mm
<b>Weatherproofing</b>	IP66



Manufactured for:



**RoHS**  
Compliant



#### **TECHNICAL SUPPORT**

For technical support, please contact your local distributor.

Alternatively, call 0871 222 1430

#### **LIMITED WARRANTY**

This product is supplied with a 12 month warranty. The warranty excludes products that have been misused (including accidental damage) and damage caused by normal wear and tear. In the unlikely event that you encounter a problem with this product, it should be returned to the place of purchase.

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