

IQCCTV

HD 960H

HD 960H 12x Zoom PTZ Mini Speed Dome Camera



960H

960H
Resolution

12x

12x 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 $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ 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 IQC960S12 Internal/External 12x 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

12x

12x 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
- 5-60mm (4-49°) Auto Iris Lens
- Cable Managed Bracket
- Durable High Quality Housing
- Internal/External
- High Speed Pan Tilt & Zoom

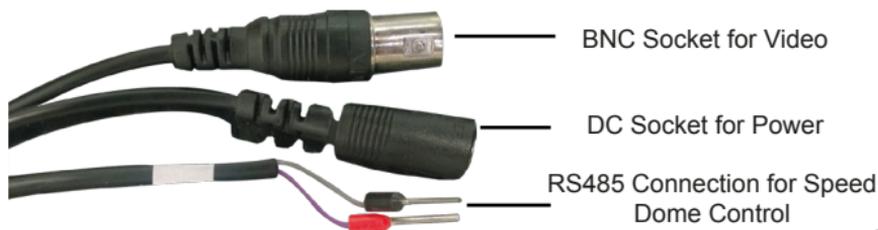
2. Product Contents

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

Contents	
	1x IQC960S12 Speed Dome Camera
	1x User Manual
	1x Wall Bracket 1x Ceiling Bracket
	1x Installation Pack

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 IQC960S12 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

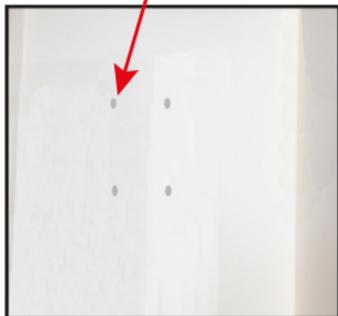
1. Using the bracket as a stencil, mark out the drill holes needed in the wall.



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.

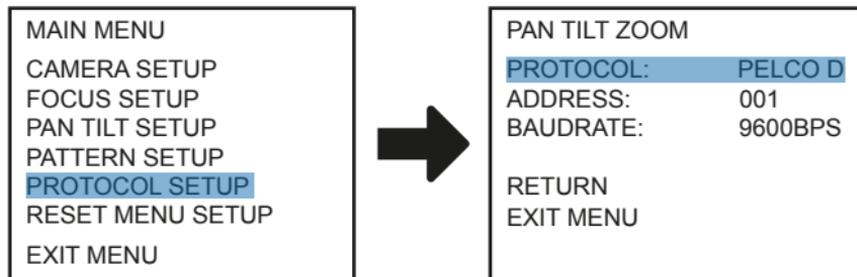
4.1 Setup Camera Address

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.

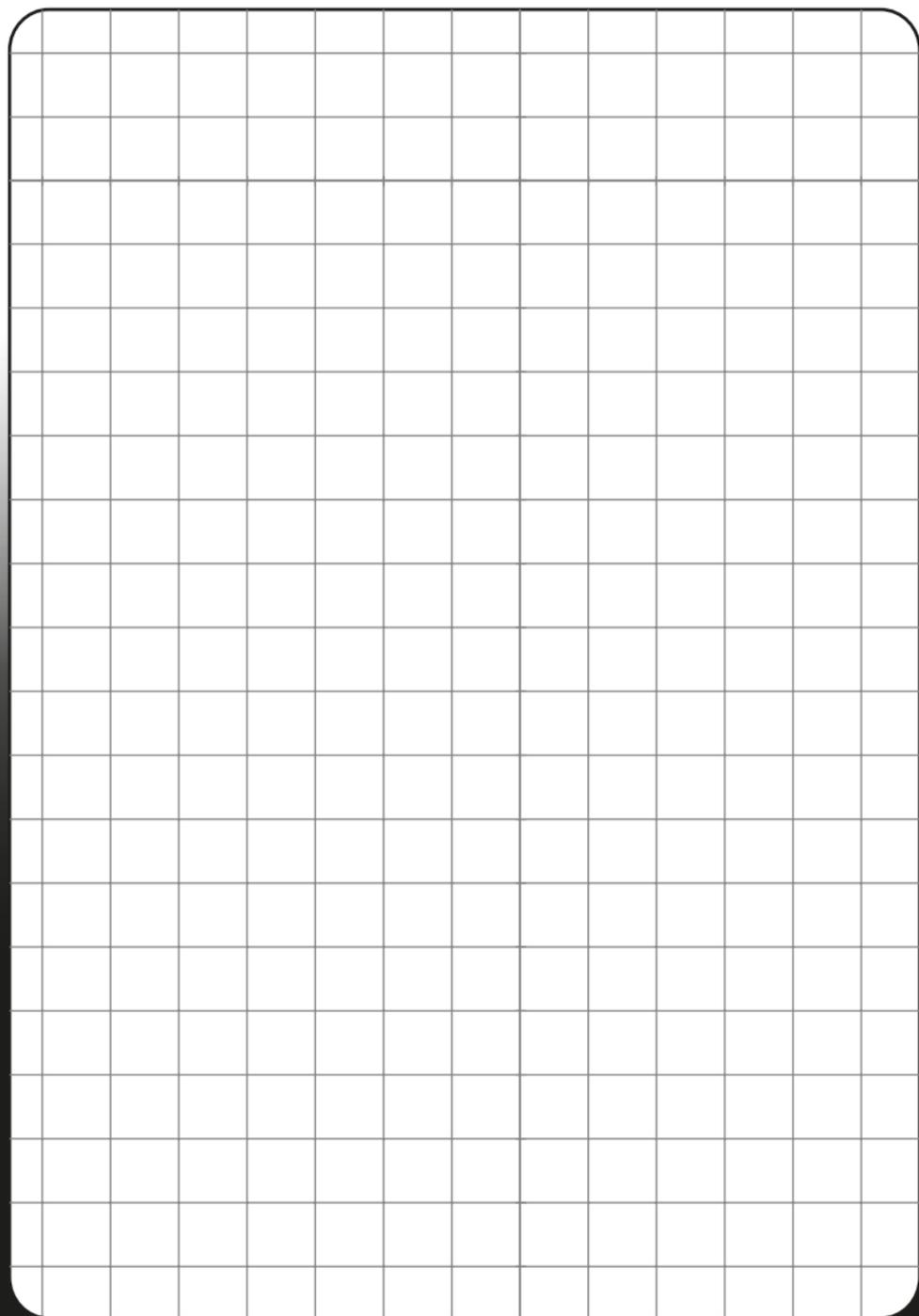
6. OSD Map

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

Image Sensor	1/3 Sony Super HAD CCD II
Resolution	960H
Lens Size	5 - 60mm
Minimum Illumination	0.001 Lux
Weight (Kg)	2.8
Power Supply	12v DC 800mA
Operating Temperature	-10°C ~ 50°C
Dimensions (WxHxD)	138x266x138mm
Weatherproofing	IP66



Manufactured for:



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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