



Operation Manual
IR DOME CAMERA
HD70(70)P/PX series



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www.honeywellvideo.com

READ AND KEEP THIS OPERATION MANUAL



Warnings

Installation and servicing should be performed only by qualified and experienced personnel to conform to all local codes and to maintain your warranty.

WARNING! 12V DC modes require the use of CSA Certified/UL Listed Class 2 power adapters to ensure compliance with electrical safety standards.

WEEE (Waste Electrical and Electronic Equipment): Correct disposal of this product (applicable in the European Union and other European countries with separate collection systems). This product should be disposed of, at the end of its useful life, as per applicable local laws, regulations, and procedures.

FCC Compliance Statement

Information to the User: This equipment has been tested and found to comply with the limits for a Class A digital device. Pursuant to Part 15 of the FCC Rules, these limits are designed to provide reasonable protection against harmful interference when the camera is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Manufacturer's Declaration of Conformance
The manufacturer declares that the equipment supplied with this guide is compliant with the essential protection requirements of the EMC Directive 2004/10/EC and the General Product Safety Directive (GPSD) 2005/90/EC, conforming to the requirements of standards EN 60950 for emissions, EN 50130-4 for immunity, and EN 60950 for Electrical Equipment Safety.

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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3. FEATURES

Adaptive IR Technology
Adaptive IR technology dramatically eliminates the white out effect and saturation on close objects, producing a clear and recognizable image regardless of viewing condition or location of objects.

1/3" High Sensitivity CCD

HD70P/PX:
Min Illumination (F1.8, 90 IRE, AGC Max)
-0.3 LUX (Color, SW)
-0 LUX (IR LED ON)

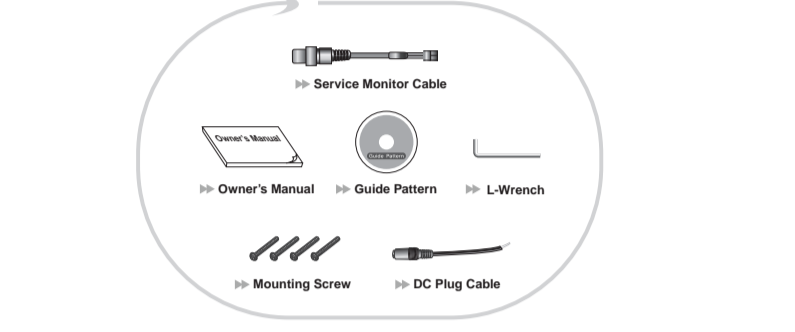
HD70P/PX:
Min Illumination (F1.4, 90 IRE, AGC Max)
-0.3 LUX (Color)
-0 LUX (IR LED ON)

User-friendly menu

- Lens High Resolution (H00 TVL)
- SBLC (Super Back Light Compensation)
- DNR (Digital Noise Reduction)
- Privacy zone selectable
- Mirror (Flipped)
- Flickerless ON/OFF

Breather vent

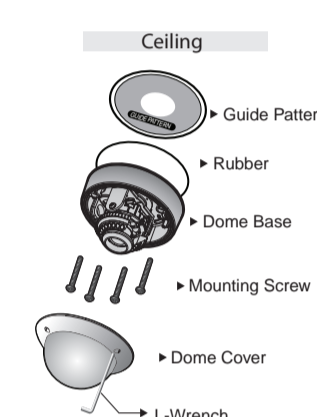
4. SUPPLIED ACCESSORIES



• Camera Mount
• Guide Pattern
• L-Wrench
• Mounting Screw
• DC Plug Cable

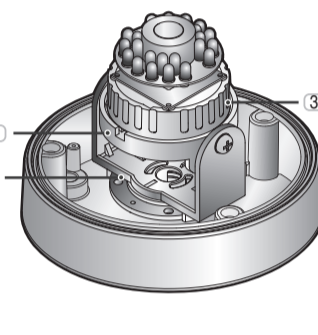
5. INSTALLATION

- Stick the guide pattern on the wall of ceiling and mark the mounting holes.
- Drill four holes according to the guide pattern, then insert anchors into the drilled holes.
- Clear out possible wires and make the connections.
- Attach the camera base to the ceiling or wall using the supplied four screws.
- Adjust the camera base by turning and moving the 3-axis camera bracket by hand.
- Align the dome cover over the base.
- Secure the dome cover to the base using the supplied L-wrench.



6. NAME AND FUNCTIONS

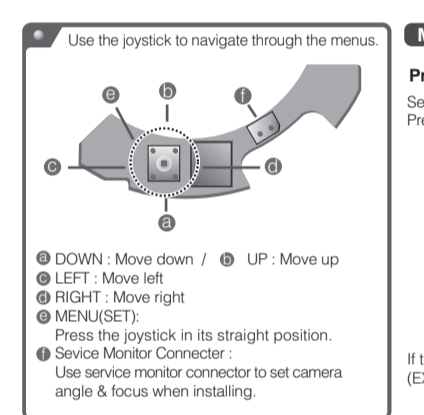
Fixed Lens Type HD70P/PX Model



1. Tilt rotation: Adjusting the vertical angle.
2. Pan rotation: Adjusting the horizontal angle.
3. Horizontal rotation: Adjusting the horizontal position of the screen.

MAIN MENU - GENERAL

Press MENU button to access the SETUP menu. Select each submenu by using the **UP** / **DOWN** / **LEFT** / **RIGHT** button to select.



DOWN / **UP**: Move up / down
LEFT: Move left
RIGHT: Move right
ENTER: Confirm
ESC: Cancel

If the OSD MENU is changed then INITIAL will be OFF (EXCEPT LENS)

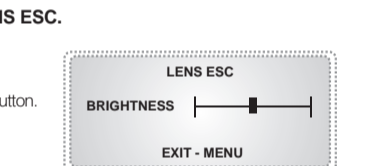
LENS

Press the MENU button to access the SETUP menu. Select each submenu by using the **UP** / **DOWN** / **LEFT** / **RIGHT** button to select.

LENS ESC (HD70P/PX)

- Select LENS using the UP or DOWN button. You can change between ESC and ESC using the LEFT or RIGHT button.
- Select ESC and press MENU button to display LENS ESC.

1. BRIGHTNESS - Select BRIGHTNESS using the UP or DOWN button. You can adjust between 0 to 5 using the LEFT or RIGHT button.



LENS DC (HD70P/PX)

Select DC and press the MENU button to have LENS DC activated.

DC LEVEL (Adjusts brightness of the image)

- Select DC LEVEL using the UP or DOWN button. You can adjust between 0 to 20 level using the LEFT or RIGHT button.

FLICKERLESS (To reduce the flicker of the image)

- Select FLICKERLESS using the UP or DOWN button. You can select between ON / OFF using the LEFT or RIGHT button.

SHUTTER (Adjusts the shutter speed of the lens)

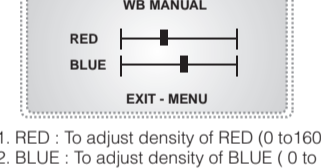
- Select SHUTTER using the UP or DOWN button. You can adjust from 1/60 (1/50) to 1/2000 (1/2000) using the LEFT or RIGHT button.

WHITE BAL (White Balance)

Select WHITE BAL using the UP or DOWN button. You can select from ATW, MANUAL, PUSH using the LEFT or RIGHT button.

1. ATW: Color temperature is automatically adjusted for light sources in the 2,000K to 10,000K range using the LEFT or RIGHT button.

2. MANUAL: To adjust the white balance manually. Select MANUAL using the UP or DOWN button and press the MENU button to activate WE MANUAL option.




1. RED: To adjust density of RED (0 to 100)
2. BLUE: To adjust density of BLUE (0 to 100)

3. PUSH: Push Lock mode fixes the white balance based on current lighting. For best results, place a white surface (such as a piece of paper) in the camera during adjustment.

1) AREA

To specify MOTION DETECTION area. Select AREA using the UP or DOWN button. You can select from area 1 to 4 position using the LEFT or RIGHT button.

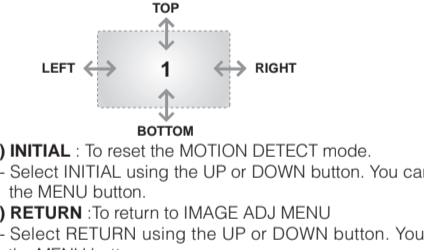


TOP / BOTTOM / LEFT / RIGHT

Users can specify MOTION DETECTED area. Select TOP, BOTTOM, LEFT or RIGHT using the UP or DOWN button. You can adjust the AREA using the LEFT or RIGHT button.

(NTSC/PAL)

- (1) TOP: extend or reduce the upper area of the MOTION DETECTED area (0 to 128) (0 to 140)
- (2) BOTTOM: extend or reduce the bottom area of the MOTION DETECTED area (0 to 128) (1 to 140)
- (3) LEFT: extend or reduce the left side of the MOTION DETECTED area (0 to 128) (0 to 128)
- (4) RIGHT: extend or reduce the right side of the MOTION DETECTED area (0 to 128) (0 to 128)



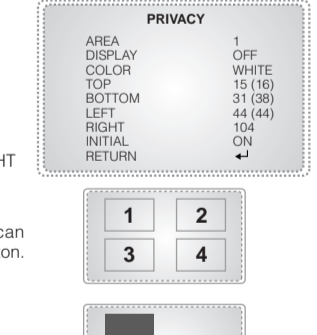
4) PRIVACY

Select PRIVACY using the UP or DOWN button and press the MENU button to activate the PRIVACY option.

1) AREA: To specify the PRIVACY area. Select AREA using the UP or DOWN button. You can select area from 1 to 4 position using the LEFT or RIGHT button.

2) DISPLAY: To display the Privacy Zone area. Select DISPLAY using the UP or DOWN button. You can select between ON/OFF using the LEFT or RIGHT button. (1) ON: display the MOTION DETECTED area on the screen (2) OFF: disable

3) COLOR: To change the color of the privacy zone. Select COLOR using the UP or DOWN button. You can select from WHITE, YELLOW, GREEN, BLUE, RED, BLACK, or GRAY using the LEFT or RIGHT button.

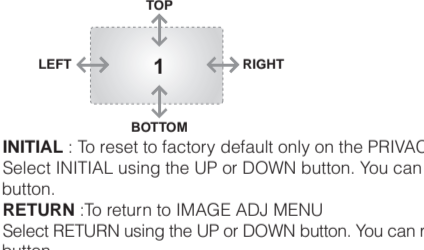


TOP / BOTTOM / LEFT / RIGHT

Users can specify PRIVACY ZONE area. Select TOP, BOTTOM, LEFT or RIGHT using the UP or DOWN button. You can adjust the privacy zone using the LEFT or RIGHT button.

(NTSC/PAL)

- (1) TOP: extend or reduce the upper area of the PRIVACY area (0 to 63) (0 to 70)
- (2) BOTTOM: extend or reduce the bottom area of the PRIVACY area (0 to 64) (0 to 70)
- (3) LEFT: extend or reduce the left side of the PRIVACY area (0 to 64) (0 to 64)
- (4) RIGHT: extend or reduce the right side of the PRIVACY area (0 to 64) (0 to 64)



5) INITIAL: To reset to factory default only on the PRIVACY mode. Select INITIAL using the UP or DOWN button. You can reset the PRIVACY mode using the MENU button.

6) RETURN: To return to IMAGE ADJ MENU. Select RETURN using the UP or DOWN button. You can return to IMAGE ADJ MENU using the MENU button.

9. SPECIFICATION

MODEL	HIGH RESOLUTION	PAL
Signal System	NTSC	
Resolution	1/3" High Sensitivity CCD	
Effective Pixels	720H(4)4V(4)	720H(4)4V(4)
Video Output	Composite (1.0V p-p, 75 Ohm)	
Scan System	Interlaced	
Line Rate	50 (60) lines (50/60Hz, AGC OFF)	
Horizontal Resolution	50 (60) lines	
Min Illumination	0.3 LUX (Color, SW) / 0 LUX (IR LED ON)	
ESD	V40 - V1000V	1000V (1000V)
ESD	V40 - V1000V	1000V (1000V)
Manual Shutter	1/8 (1/8), 1/25 (1/25), 1/50 (1/50), 1/100 (1/100), 1/200 (1/200), 1/400 (1/400), 1/800 (1/800), 1/1600 (1/1600)	
DNR	OFF, LOW, MIDDLE, HIGH	
White Balance	ATW, MANUAL, PUSH	

SBLC	OFF, LOW, MIDDLE, HIGH
AGC	ON, OFF
Day / Night	RED, COLOR, BW
Mode	CC, CCF
Motion Detection	ON, OFF (Programmable Zone)
Privacy	ON, OFF (Programmable Zone)
Menu	ON, OFF (Horizontal / ZONE)
Language	1 to 20
OSD Language	English
Adjustable Lens	DC HV / Remote Lens
Security Interface	RS-485 (2-Wire)
Power Consumption	400 mA (A.S. 100%)
Operating Temperature / Humidity	+14°F to +122°F (5°C to +50°C) 20% to 80% RH (Storage Temperature / Humidity)

10. TROUBLESHOOTING

If you have trouble operating your camera, refer to the following guidelines. If the guidelines do not help you to solve the problem, contact an authorized technician.

Nothing appears on the screen

- Check that the power cord and the video cable between the camera and monitor are properly connected.
- Check that you have properly connected the VIDEO cable to the camera VIDEO output jack.

The image on the screen is dim

- If the lens is obstructed (for example, with dirt), clean the lens with a soft, clean cloth.
- Set the monitor to proper condition.
- If the camera is exposed to too strong light, change the camera position.
- Adjust the lens focus properly.

The image on the screen is dark

- Adjust the contrast feature of the monitor.
- If you pass through an intermediate device, set the termination (75 Ohms / Hi-Z) properly.

Design and specifications are subject to change without notice.

USER INFORMATION

CAUTION

Do not touch the lens of active video. An active video lens is sensitive to dust. If the lens is touched, the image may be distorted or the camera may stop working.

The recommended point within an equivalent triangle is intended to alert the user to the presence of important operating instructions in the literature accompanying the appliance.

CONTENTS

Thank you for purchasing this COLOR VIDEO CAMERA. Before using the camera, please read this operation manual carefully to obtain the best result and keep this manual for future reference.

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1. SAFETY INSTRUCTIONS

Read Instructions: Read all of the safety and operating instructions before using the product.

Retain Instructions: Save these instructions for later use.

Cleaning: Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Power source: This product should be operated only from a 12V DC power source as indicated on the marking label.

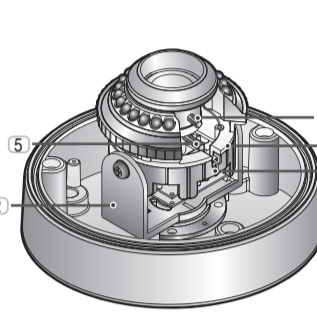
2. PRECAUTIONS

- Do not install the camera in extreme temperature conditions. Operate the camera under conditions where temperatures are within 14°F to 122°F (5°C to 50°C).
- Do not disassemble the camera.
- Do not drop the camera or subject them to physical shocks.
- Never keep the camera face to strong light directly.

NOTE: When this camera is installed near wireless communication devices, interference may occur among electromagnetic fields. Irregularity such as noise on the monitor may appear.

3. FEATURES

Varifocal Lens HD70P/PX Model



1. Tilt rotation: Adjusting the vertical angle.
2. Pan rotation: Adjusting the horizontal angle.
3. Horizontal rotation: Adjusting the horizontal position of the screen.
4. Focus handle: Focus (Far or Near)
5. Zoom handle: Zoom (In or Out)


7. CONNECTIONS

1. Connecting to Monitor and Power

- Connect the video out jack to the video jack of monitor.
- Connect the power adapter to the power jack connector.
- Use 12V DC power source.
- Use the power wires (866 40A 12V DC).

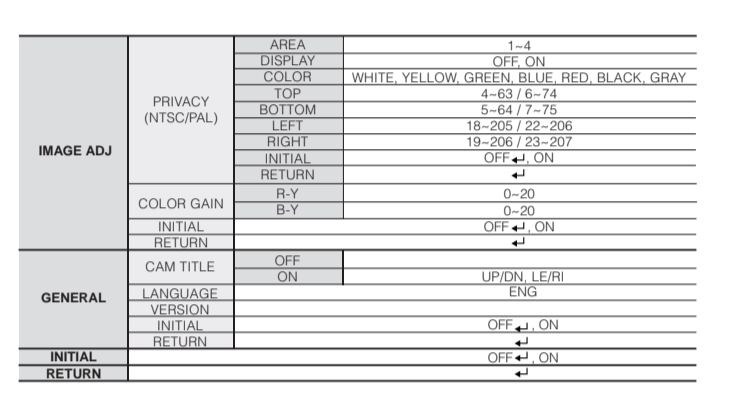
Function	Terminal Color	Wiring
Power	Red	DC 12V
Power	Black	DC GND
Power	Blue	DC 5V

Video Output



8. OPERATING CAMERA

LENS	DC	SWITCH	FUNCTION
WHITE BAL	ATW	MANUAL	ATW, MANUAL, PUSH, ATW, MANUAL, PUSH
AGC	ON	LEVEL	ON, OFF, LEVEL
DAY / NIGHT	RED	COLOR, BW	RED, COLOR, BW, CCF, CCF
IMAGE ADJ	MOTION	PRIVACY	MOTION, PRIVACY, MOTION, PRIVACY
GENERAL	LANGUAGE	LANGUAGE	LANGUAGE, LANGUAGE
INITIAL	INITIAL	INITIAL	INITIAL, INITIAL
RETURN	RETURN	RETURN	RETURN, RETURN

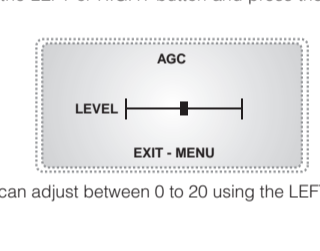


AGC (Automatic Gain Control)

Select AGC using the UP or DOWN button. You can select between OFF, ON using the LEFT or RIGHT button.

AGC level is selectable in COLOR, BW mode.

1. ON: Select ON using the LEFT or RIGHT button and press the MENU button to activate the AGC option.



1. LEVEL: You can adjust between 0 to 20 using the LEFT or RIGHT button.

2. OFF: Disable the AGC.

DAY / NIGHT

Select DAY / NIGHT using the UP or DOWN button. You can select between RED, COLOR, BW using the LEFT or RIGHT button.

1. COLOR: for color mode only (DAY mode)

2. BW: for BLACK and WHITE mode only (NIGHT mode)

3. RED: IR LED control mode

SMART LED: IR LED control mode

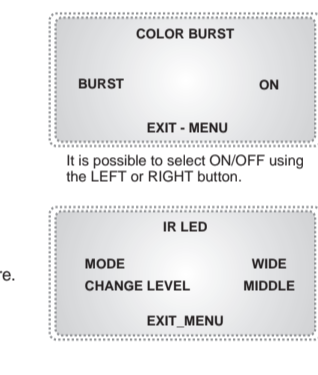
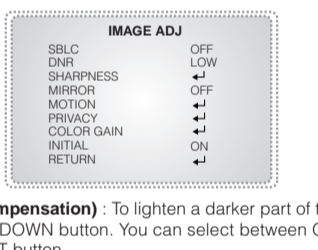


IMAGE ADJ (Image Adjust)

Select IMAGE ADJ using the UP or DOWN button and press the MENU button to activate the IMAGE ADJ mode.

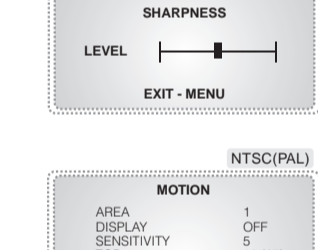


1. SBLC (Super Back Light Compensation): To lighten a darker part of the image. Select SBLC using the UP or DOWN button. You can select between ON / OFF using the LEFT or RIGHT button.

2. DNR (Digital Noise Reduction): To reduce the image noise especially during low ambient lighting conditions. Select DNR using the UP or DOWN button. You can adjust between OFF, LOW, MIDDLE, HIGH using the LEFT or RIGHT button.

SHARPNESS

Select SHARPNESS using the UP or DOWN button. You can adjust between 0 to 20 using the LEFT or RIGHT button.

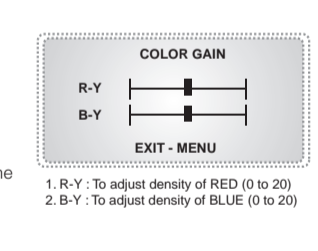


7. COLOR GAIN

Select COLOR GAIN using the UP or DOWN button and press the MENU button to activate the COLOR MODE option.

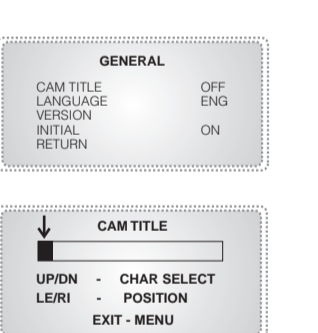
1. INITIAL: To reset to factory default only on the IMAGE ADJ mode. Select INITIAL using the UP or DOWN button and reset the IMAGE ADJ mode using the MENU button.

2. RETURN: To return to MENU. Select RETURN using the UP or DOWN button and return to MENU using the MENU button.



GENERAL

Select GENERAL using the UP or DOWN button and press the MENU button to activate the GENERAL mode.



1. CAM TITLE: Select CAM TITLE using the UP or DOWN button. You can adjust ON/OFF using the LEFT or RIGHT button.

(1) ON: To display the camera title on the screen (2) OFF: disable

Select ON and Press MENU button to display CAM TITLE

(1) UP/DN: To select character using the UP or DOWN button (0 to A-Z 2)

(2) L/R: To select position using the LEFT or RIGHT button.

2. LANGUAGE

Select LANGUAGE using the UP or DOWN button. You can select from 1 to 20 using the LEFT or RIGHT button.

1. INITIAL: To reset to factory default only on the GENERAL mode. Select INITIAL using the UP or DOWN button and reset to factory default using the MENU button.

2. RETURN: To return to MENU. Select RETURN using the UP or DOWN button. You can return to MENU using the MENU button.

INITIAL

Select INITIAL using the UP or DOWN button and press the MENU button to activate the INITIAL mode.

1. INITIAL: To reset to factory default. Select INITIAL using the UP or DOWN button and press the MENU button to activate the INITIAL mode.

2. RETURN: To return to MENU. Select RETURN using the UP or DOWN button and return to MENU using the MENU button.

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