P/N 800-07007-A 04/11

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Honeywell

Operation Manual

IR DOME CAMERA

HD70(73)P/PX series

CCD
DIGITAL COLOR
800-07007-A 04/11

● READ AND KEEP THIS OPERATION MANUAL

Honeywell

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 models 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 equipment 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 2004/108/EC and the General Product Safety Directive GPSD 2001/95/EC, conforming to the requirements of standards EN 55022 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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◉ USER INFORMATION

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION ! TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral 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 this 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 m mØ l
- **Do not disassemble the camera.**
- **Do not drop the camera or subject them to physical shocks.**
  p
- **Never keep the camera face to strong light directly.**
  p

NOTE **When this camera is installed near wireless communication devices that emit strong electromagnetic field, irregularity such as noise on the monitor may appear.**

◉ 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

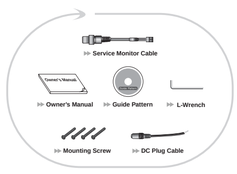
<HD70P(PX)>
Min Illumination (F2.0, 50 IRE, AGC Max)
- 0.3 LUX (Color, B/W)
- 0 LUX (IR LED ON)

<HD73P(PX)>
Min Illumination (F1.4, 50 IRE, AGC Max)
- 0.3 LUX (Color)
- 0 LUX (IR LED ON)

User-friendly menus
- Ultra High Resolution (600 TVL)
- SBLC (Super Back Light Compensation)
- DNR (Digital Noise Reduction)
- Privacy zone selectable
- Mirror (Horizontal)
- Flickerless On/Off

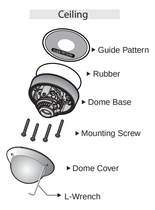
Breather vent

◉ 4. SUPPLIED ACCESSORIES



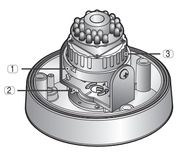
◉ 5. INSTALLATION

1. Stick the guide pattern on the wall or ceiling and mark the mounting holes.
2. Drill four holes according to the guide pattern, then insert anchors into the drilled holes.
3. Draw out power/video wires and make the connections.
4. Attach the camera base to the ceiling or wall using the supplied four screws.
5. Aim and focus by turning and moving the 3-axis camera bracket by hand.
6. Align the dome cover over the base.
7. Secure the dome cover to the base using the supplied L-wrench.



◉ 6. NAME AND FUNCTIONS

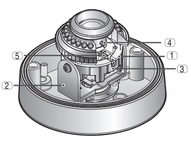
Fixed Lens Type
HD70P(PX) shown



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

◉ 7. CONNECTIONS

Vari-focal Lens Type
HD73P(PX) shown



Camera Layout
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 (Tele or Wide)**

1. Connecting to Monitor and Power
- Connect the video-out jack to the video-in jack of monitor.
- Connect the power adapter to the power input connecter.
- Use 12V DC power source.
- Use the power rated at least 400 mA (12V DC)

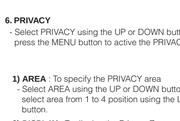
NO	Function	Terminal Color	Remark
#1	Video Output	Yellow	1.0 Vp.p
#2	Power Input	Red	12V DC (±10%), Max 4.8 W / 400 mA

◉ 8. OPERATING CAMERA

LENS	ESC	BRIGHTNESS	0~5
	DC	DC LEVEL	0~5
		SHUTTER	1/60(1/50), 1/120(1/100), 1/250, 1/500, 1/700, 1/1K, 1/1600, 1/2500 1/5K, 1/7K, 1/10K, 1/30K, 1/60K, 1/120K (IR MODE: 1/60(1/50))
WHITE BAL	ATW		
	MANUAL	RED	0~160
		BLUE	0~160
	PUSH		
AGC	ON	LEVEL	0~20 (IR MODE FIXED)
	OFF		
DAY / NIGHT	IRED	MODE	WIDE, SMART
		CHANGE LEVEL	LOW, MIDDLE, HIGH
	COLOR		
	B/W	BURST	ON/OFF
IMAGE ADJ	SBLC		OFF, LOW, MIDDLE, HIGH
	DNR		OFF, LOW, MIDDLE, HIGH
	SHARPNESS	LEVEL	0~20
	MIRROR	OFF, ON	
	MOTION (NTSC/PAL)	AREA	1~4
		DISPLAY	OFF, ON
		SENSITIVITY	1~24
		TOP	8~126 / 10~146
		BOTTOM	8~126 / 11~149
		LEFT	4~191 / 8~191
		RIGHT	4~191 / 9~192
		INITIAL	OFF↵, ON
		RETURN	↵

IMAGE ADJ	PRIVACY (NTSC/PAL)	AREA	1~4
		DISPLAY	OFF, ON
		COLOR	WHITE, YELLOW, GREEN, BLUE, RED, BLACK, GRAY
		TOP	4~63 / 6~74
		BOTTOM	5~64 / 7~75
		LEFT	18~205 / 22~206
		RIGHT	19~206 / 23~207
		INITIAL	OFF↵, ON
		RETURN	↵
	COLOR GAIN	R-Y	0~20
		B-Y	0~20
	INITIAL		OFF↵, ON
	RETURN		↵
GENERAL	CAM TITLE	OFF	
		ON	UP/DN, LE/RI
	LANGUAGE	ENG	
	VERSION		
	INITIAL		OFF↵, ON
	RETURN		↵
INITIAL			OFF↵, ON
RETURN			↵

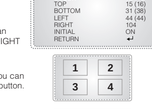
Use the joystick to navigate through the menus.



1. DOWN : Move down / 2. UP : Move up
3. LEFT : Move left
4. RIGHT : Move right
5. MENU(SET):
   Press the joystick in its straight position.
6. Sevice Monitor Connecter :
   Use service monitor connector to set camera angle & focus when installing.

MAIN MENU - GENERAL

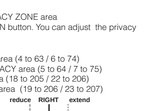
Press MENU button to access the SETUP menu.
Select each sub-menu by using the ◄, ►, ▲, ▼ button.
Press the MENU(SET) button to select.



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

LENS

Press the MENU button to access the SETUP menu.



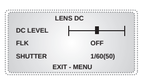
LENS ESC (HD73P(PX))

- Select LENS using the UP or DOWN button. You can change between ESC and DC 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 (HD73P(PX))

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



1. 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.

2. FLK (FLICKERLESS)
- Select FLK using the UP or DOWN button. You can select between ON / OFF using the LEFT or RIGHT button.
  > OFF : You will be allowed to adjust the shutter speed.

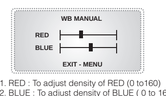
3. SHUTTER (Adjusts the shutter speed of the lens.)
- IR LED Mode : 1/60(1/50)
- COLOR, B/W Mode :
  Select SHUTTER using the UP or DOWN button. You can adjust from 1/60(1/50), 1/120(1/100), 1/250, 1/500, 1/700, 1/1K, 1/1600, 1/2500, 1/5K, 1/7K, 1/10K, 1/30K, 1/60K, 1/120K(sec) level using the LEFT or 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 2,000°K to 10,000°K range

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



1. RED : To adjust density of RED (0 to160)
2. BLUE : To adjust density of BLUE (0 to 160)

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 front of the camera during adjustment.

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 is fixed at a certain level in IR LED mode.
AGC level is selectable in COLOR, B/W 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 IRED, COLOR, B/W using the LEFT or RIGHT button.

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

2. B/W : for BLACK and WHITE mode only (NIGHT mode)
- Select B/W using the LEFT or RIGHT button and press the MENU button to activate COLOR BURST option.

It is possible to select ON/OFF using the LEFT or RIGHT button.

3. IRED : IR LED control mode
WIDE : LED control based on full screen exposure. Some areas may be over exposed.
SMART : LED output is limited to optimized scene exposure.

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 OFF, LOW, MIDDLE, HIGH using the LEFT or RIGHT button.
- SBLC turns to OFF automatically at night.

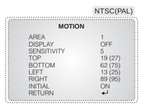
2. DNR (Digital Noise Reduction) : To reduce the image noise especially during low ambient lighting conditions.
- Select DNR using the UP or DOWN button. You can adjust between OFF, LOW, MIDDLE, HIGH using the LEFT or RIGHT button.

3. SHARPNESS : To adjust SHARPNESS of the image.
- Select SHARPNESS using the UP or DOWN button.
- Select ↵ and press the MENU button to activate SHARPNESS option.
- You can adjust the sharpness from 0 to 20 using the LEFT or RIGHT button.

4. MIRROR
- Select MIRROR using the UP or DOWN button. You can select from ON/OFF using the LEFT or RIGHT button.
  (1) ON : Horizontal image flip.
  (2) OFF : default

5. MOTION (Motion Detect) Display only (No output signal)
- Select MOTION using the UP or DOWN button and press MENU button to activate the MOTION DETECT option.

NTSC(PAL)



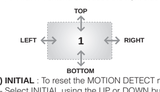
1) AREA : To specify MOTION DETECTION area
- Select AREA using the UP or DOWN button. You can select from area 1 to 4 position using the LEFT or RIGHT button.

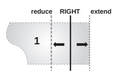
2) DISPLAY : To display MOTION DETECTED area on the video
- Select DISPLAY using the UP or DOWN button. You can select between ON/OFF using the LEFT or RIGHT button.
  (1) ON : display the MOTION DETECTED area on the screen
  (2) OFF : disable

3) SENSITIVITY : To set up the motion sensitivity
- Select SENSITIVITY using the UP or DOWN button. You can adjust the motion sensitivity of a movement from 1 to 24 using the LEFT or RIGHT button.
  (1) 1 : most sensitive (highest)
  (2) 24 : least sensitive (lowest)

4) 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 (8 to 126 / 10 to 146)
(2) BOTTOM : extend or reduce the bottom area of the MOTION DETECTED area (8 to126 / 11 to 149)
(3) LEFT : extend or reduce the left side of the MOTION DETECTED area (4 to 191 / 8 to191)
(4) RIGHT : extend or reduce the right side of the MOTION DETECTED area (4 to 191 / 9 to 192)





5) INITIAL : To reset the MOTION DETECT mode.
- Select INITIAL using the UP or DOWN button. You can reset the MOTION DETECT 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.

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

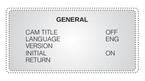
8. INITIAL
To reset to factory default only on the IMAGE ADJ mode.
- Select INITIAL using the UP or DOWN button and reset the IMAGE ADJ mode using the MENU button.

9. RETURN
To return to MAIN MENU
- Select RETURN using the UP or DOWN button and return to MENU using the MENU button.

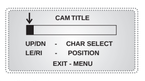
1. R-Y : To adjust density of RED (0 to 20)
2. B-Y : To adjust density of BLUE (0 to 20)

GENERAL

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



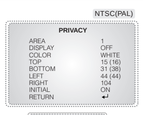
1. CAM TITLE
- Select CAM TITLE using the UP or DOWN button.
  You can adjust ON/OFF using the LEFT or RIGHT button.
  (1) ON : To display the camera title on the screen
  (2) OFF : disable



- Select ON and Press MENU button to display CAM TITLE.
  (1) UP/DN : To select character using the UP or DOWN button (0 to 9,A to Z)
  (2) LE/RI : To select position using the LEFT or RIGHT button.

6. PRIVACY
- Select PRIVACY using the UP or DOWN button and press the MENU button to active the PRIVACY option.

NTSC(PAL)



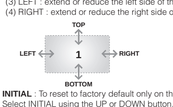
1) AREA : To specify the PRIVACY area
- Select AREA using the UP or DOWN button. You can select area from 1 to 4 position using the LEFT or RIGHT button.

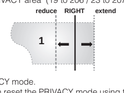
2) DISPLAY : To display the Privacy Zone area
- Select DISPLAY using the UP or DOWN button. You can select between ON/OFF using the LEFT or RIGHT button.
  (1) ON : display the Privacy Zone area
  (2) OFF : disable

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

4) TOP / BOTTOM / LEFT / RIGHT : Users can specify a 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 (4 to 63 / 6 to 74)
(2) BOTTOM : extend or reduce the bottom area of the PRIVACY area (5 to 64 / 7 to 75)
(3) LEFT : extend or reduce the left side of the PRIVACY area (18 to 205 / 22 to 206)
(4) RIGHT : extend or reduce the right side of the PRIVACY area (19 to 206 / 23 to 207)





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.

2. LANGUAGE - English LANGUAGE.
3. VERSION - Displays the firmware version.
4. INITIAL : To reset to factory default only on the GENERAL mode.
- Select INITIAL using the UP or DOWN button.
  You can reset to factory default for GENERAL mode using the MENU button.

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

INITIAL **: To reset to factory default.**
- Select INITIAL using the UP or DOWN button and reset to factory default using the MENU button.

EXIT **: To exit the OSD setup menu.**
- Select EXIT using the UP or DOWN button and close the OSD setup menu by pressing the MENU button.

◉ 9. SPECIFICATION

MODEL	HIGH RESOLUTION	
Signal System	NTSC	PAL
Image Sensor	1/3" High Sensitivity CCD	
Effective Pixels	768(H)x494(V)	752(H)x582(V)
Video Output	Composite : 1.0V p.p, 75 Ohms	
Sync. System	Internal Sync	
S/N Ratio	50 dB Min. (SHARPNESS, AGC off)	
Horizontal Resolution	600 TV Lines	
Min Illumination HD70P/PX	0.3 Lux (Color, B/W) / 0 Lux (IR LED ON)	
Min Illumination HD73P/PX	0.3 Lux (Color) / 0 Lux (IR LED ON)	
ESC	1/ 60 ~ 1/ 120,000	PAL - 1/ 50 ~1/ 120,000
Manual Shutter	1/ 60(1/50), 1/120(1/100), 1/ 250, 1/ 500, 1/ 700, 1/ 1K, 1/ 1.6K, 1/ 2.5K, 1/ 5K, 1/ 7K, 1/ 10K, 1/ 30K, 1/ 60K, 1/ 120K	
DNR	OFF, LOW, MIDDLE, HIGH	
White Balance	ATW, MANUAL, PUSH	

SBLC	OFF, LOW, MIDDLE, HIGH
AGC	ON, OFF
Day / Night	IRED, COLOR, B/W
Burst	ON, OFF
Motion Detection	ON, OFF (4 Programmable Zone)
Privacy	ON, OFF (4 Programmable Zone)
Mirror	ON (HORIZONTAL), OFF
Sharpness	1 ~ 20
OSD Language	English
Applicable Lens	DC Iris / Manual Lens
Supply Voltage	12V DC (±10%)
Power Consumption	400 mA / 4.8 W (Max)
Operating Temperature/ Humidity	+14°F to +122°F (-10°C to +50°C) / 30% to 80% RH
Storage Temperature/ Humidity	-4°F to +140°F (-20°C to +60°C) / 20% to 90% RH

◉ 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 loop through an intermediate device, set the termination (75 Ohms / Hi-Z) properly.

◉ MEMO

● Design and specifications are subject to change without notice.

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