

HCD544/HCD544X/HCD545X Camera Quick Install Guide

Document 800-03503 — Rev C — 03/09

Important Safety Instructions

- Read and keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use only with the bracket or mounting system specified by the manufacturer, or sold with the apparatus.
- Refer all servicing to qualified service personnel.

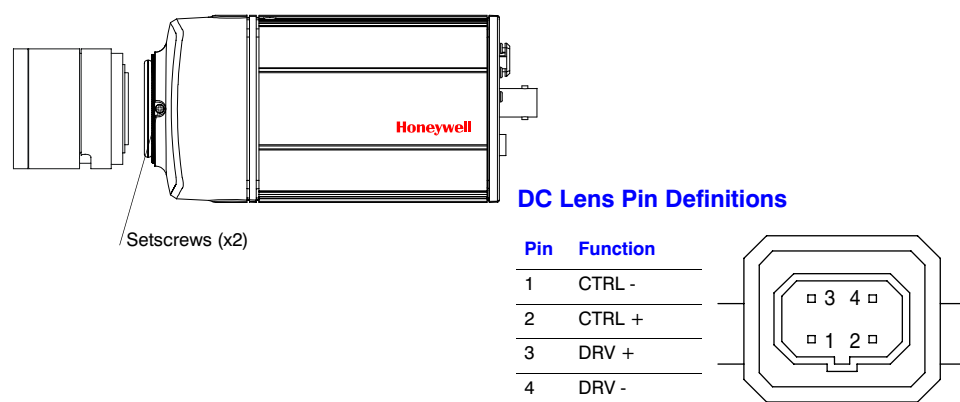
Installation

The HCD544 Series camera is designed for general surveillance applications and is ideally suited for low-light indoor environments.

Installing the Lens

The HCD544 Series camera is factory configured for a CS-mount lens. Screw the lens (customer supplied) into the front of the camera body. An IR corrected Day/Night lens is recommended for this camera.

Figure 1 Lens Installation



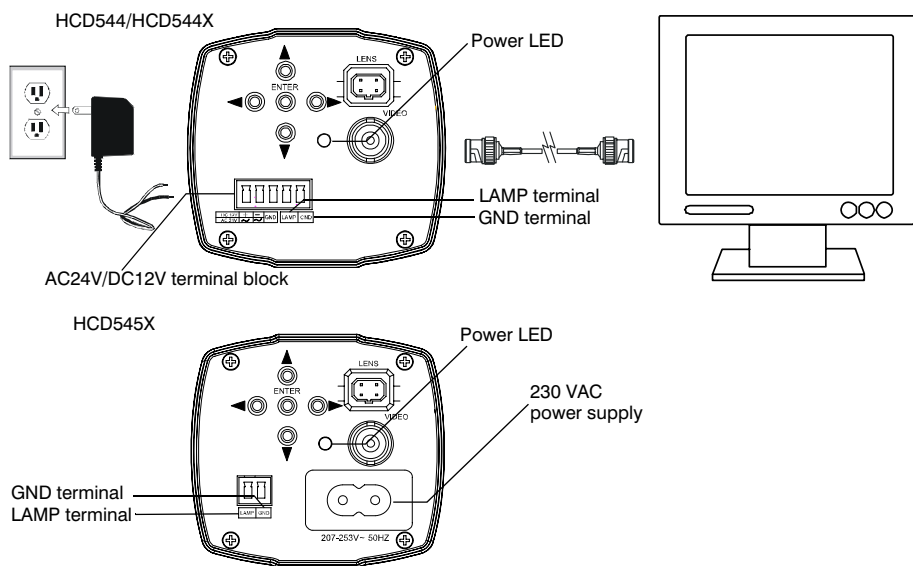
Connecting the Camera

Note Check the power source from the external power supply before applying power to the camera.

1. Connect the VIDEO connector on the rear of the camera to the video-in connector on your monitor or video recorder.
2. HCD544/HCD544X models: Connect the camera to a power supply appropriate for your installation (12 VDC or 24 VAC). Plug the power supply into an appropriate power source.
3. HCD545X model: Connect the power cord to the power cord socket. Plug the power cord plug into an electrical outlet of AC230V, 50 Hz. Accepted voltage range is 207 VAC~253 VAC.

The power LED illuminates to show that the camera is receiving power.

Figure 2 Video Connections



Connecting LAMP Contact

The HCD544 camera is equipped with LAMP and GND external contact terminals (see Figure 2). When the LAMP terminal is connected to the GND terminal, the camera is forced into night mode (see DAY&NIGHT). It stays in night mode until the LAMP terminal is disconnected from the GND terminal.

Adjusting the Back Focus

To adjust the back focus, aim the camera towards a darker area, or use a Neutral Density lens filter. For best results, there should be a minimum of 15 ft (4.5 m) between the camera and the target focal area.

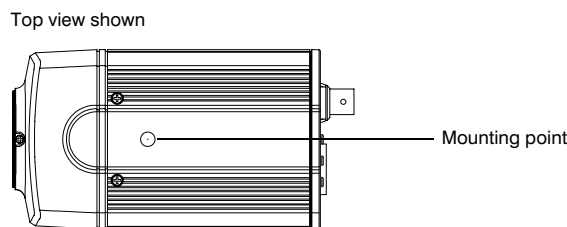
1. Loosen the setscrews (see Figure 1) with a Phillips screwdriver.
2. Set the Zoom lens adjustment to Wide and the Focus lens adjustment to Near.
3. Adjust the back focus ring to focus the picture.
4. Retighten the setscrews.

Mounting the Camera

There are mounting points on the top and bottom of the camera (see Figure 3) to mount the camera on a bracket or tripod. Use standard sized mounting bolts to install the camera to a mounting bracket.

Caution Follow local installation codes for proper mounting bracket support capability.

Figure 3 Camera Mounting.



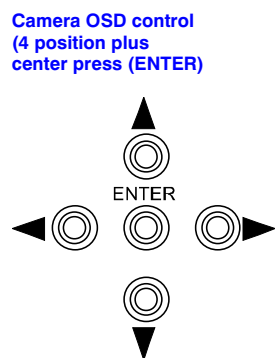
Making Final Adjustments

Adjust the focus in your field of view until you see a clear image. If necessary, adjust the brightness using the OSD menu controls (see LENS DC/BRIGHTNESS or AGC). Confirm the exposure on the monitor screen.

Programming

OSD Menu Controls

Figure 4 Camera Controller



Navigating through the menu

Press this control To do this ...

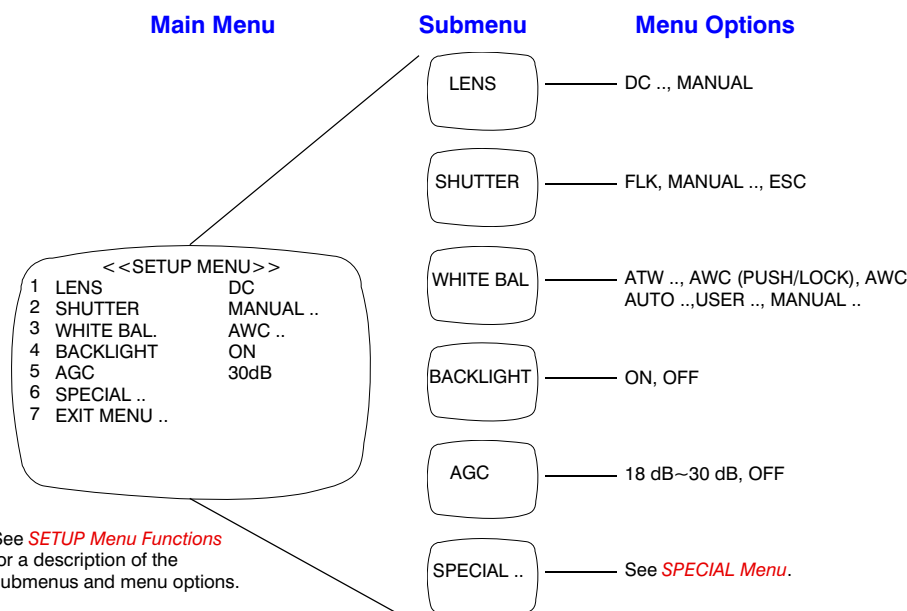
| | |
|--------------------------|--|
| ENTER | Press and hold two seconds to enter SETUP menu. Press to enter a screen or select a menu option. |
| UP, DOWN (▲, ▼) | Move vertically between menus and options. Increase/decrease a value. |
| LEFT, RIGHT (◀, ▶) | Move horizontally between menus and options. |
| .. | Indicates submenus. Select the menu, then press ENTER. |
| RETURN (on OSD submenus) | Exit the submenu. Select RETURN, then press ENTER. |

Note Menu display turns off automatically after five minutes of no activity. Your changes will be saved.

OSD Menu Structure

The HCD544 Series camera menu system consists of one main SETUP menu for easy camera programming.

Figure 5 Menu Structure



See SETUP Menu Functions for a description of the submenus and menu options.

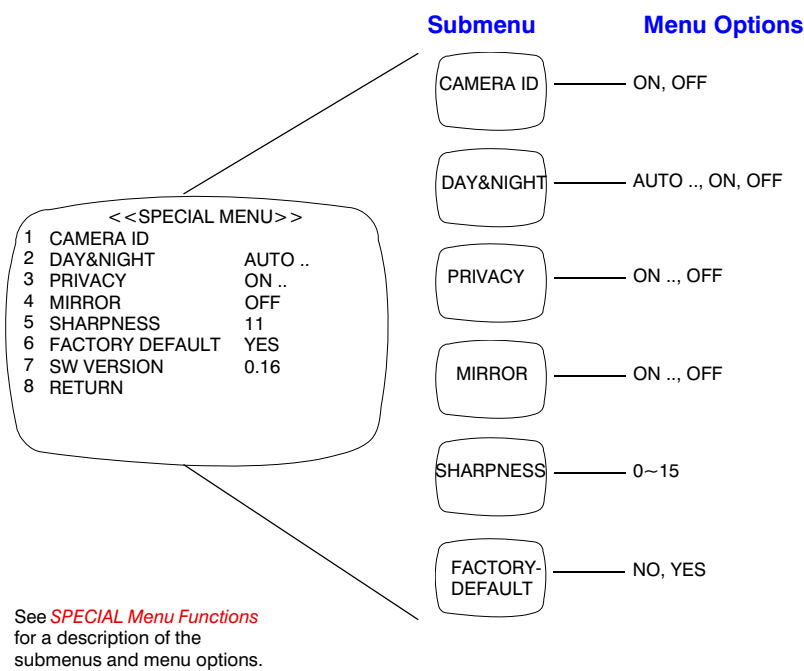
SETUP Menu Functions

| Menu Item | Description |
|-----------------------------------|---|
| 1 LENS | Selects lens type DC = Automatic Iris lens. Press ENTER with DC selected to adjust the brightness level. MANUAL = Fixed lens |
| 2 SHUTTER | Adjusts shutter settings FLK = Flickerless mode reduces on-screen flickering. MANUAL = Adjust the shutter speed from 1/60-1/100,000 of a second (NTSC), or 1/50-1/100,000 (PAL). ESC = Electronic Shutter Control. Press ENTER to adjust the brightness level. Not available with DC lens. |
| 3 WHITE BAL. (White Balance) | Controls color on the screen. Press ENTER with ATW selected to change the mode. ATW = Select Auto Tracking White Balance when the color temperature is 2500°K-8000°K (for example when under a fluorescent light, or outdoors). AWC PUSH = Automatically adjust the white balance to your specific environment. When selected, the white balance is locked. AWC AUTO = A faster AWB mode with a wider operating range. USER = Adjust the red or blue gain, from 0~255 . MANUAL = Increase or decrease the red or blue gain on screen. |
| 4 BACKLIGHT | Controls the light level to overcome severe backlighting conditions |
| 5 AGC (Automatic Gain Control) | Adjusts value of AGC gain Increase the gain level (18 dB~30 dB) in 2 dB increments to brighten the picture in low light conditions. Noise/distortion may develop. OFF = DAY&NIGHT mode must be OFF to turn AGC OFF. |
| 6 SPECIAL.. | Opens the SPECIAL menu (see <i>SPECIAL Menu</i>) |
| 7 EXIT MENU | Exits the SETUP menu and returns to video monitoring SAVE AND EXIT = Exits the SETUP menu, saving your changes, and returns to video monitoring. If the camera times out after five minutes of inactivity, your changes are not saved. EXIT = Exits the SETUP menu without saving your changes. RETURN = Returns to the SETUP menu. |

SPECIAL Menu

- On the SETUP menu, press the **UP** or **DOWN** menu control and then select **SPECIAL**.
- Press **ENTER** to access the SPECIAL menu.

Figure 6 SPECIAL Menu



SPECIAL Menu Functions

| Menu Item | Description |
|-------------|---|
| 1 CAMERA ID | Sets a camera ID to be displayed on the monitor. To add a camera ID (maximum 10 characters, including spaces): <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <pre><<CAMERA ID>> POSITION R.BOT ABCDEFGHIJKLMN OPQRST UVWXYZ abcdefghijklmn opqrstuvwxyz12345678 9!?\$%&<>*.:/+ -= ~□ ID: RETURN</pre> </div> <p>UP, DOWN, LEFT, or RIGHT menu control = Select a character, then press ENTER to accept it. The character is saved and the cursor moves to the next position. LEFT or RIGHT menu control = Go back or forward in the name or number to make changes. POSITION = Position the camera ID on the screen. Press (ENTER) SET to confirm the position. ID = Sets a camera ID to be displayed. Select RETURN when you are finished.</p> |

| Menu Item | Description | | | | | | | | | | | | |
|-------------------|--|-----------|-------------|---------|---|-------------|--|-----------|---|-----------|--|-------------|--|
| 2 DAY&NIGHT | <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <pre><<DAY&NIGHT>> MODE AUTO DETECT TIME 5sec D→N LEVEL 5 N→D LEVEL 8 NIGHT COLOR B/W RETURN</pre> </div> <table border="1"> <thead> <tr> <th>Menu Item</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>MODE</td> <td>AUTO = Depending on the light level, the camera automatically switches to night mode. ON = The camera is forced into night mode at all times. OFF = The camera never switches to night mode.</td> </tr> <tr> <td>DETECT TIME</td> <td>Sets the time (5~60, in 5-second increments) before the camera switches to day or night mode after detecting a switching threshold.</td> </tr> <tr> <td>D→N LEVEL</td> <td>The light detection level (1~12) at which the camera switches to night mode.</td> </tr> <tr> <td>N→D LEVEL</td> <td>The light detection level (4~15) at which the camera switches to day mode. Set MODE to AUTO and D→N LEVEL at least 3 less than N→D LEVEL.</td> </tr> <tr> <td>NIGHT COLOR</td> <td>Set the color mode in night mode. B/W = Black/white (no color burst) COLOR = Color Set MODE to AUTO or ON.</td> </tr> </tbody> </table> | Menu Item | Description | MODE | AUTO = Depending on the light level, the camera automatically switches to night mode. ON = The camera is forced into night mode at all times. OFF = The camera never switches to night mode. | DETECT TIME | Sets the time (5~60 , in 5-second increments) before the camera switches to day or night mode after detecting a switching threshold. | D→N LEVEL | The light detection level (1~12) at which the camera switches to night mode. | N→D LEVEL | The light detection level (4~15) at which the camera switches to day mode. Set MODE to AUTO and D→N LEVEL at least 3 less than N→D LEVEL. | NIGHT COLOR | Set the color mode in night mode. B/W = Black/white (no color burst) COLOR = Color Set MODE to AUTO or ON . |
| Menu Item | Description | | | | | | | | | | | | |
| MODE | AUTO = Depending on the light level, the camera automatically switches to night mode. ON = The camera is forced into night mode at all times. OFF = The camera never switches to night mode. | | | | | | | | | | | | |
| DETECT TIME | Sets the time (5~60 , in 5-second increments) before the camera switches to day or night mode after detecting a switching threshold. | | | | | | | | | | | | |
| D→N LEVEL | The light detection level (1~12) at which the camera switches to night mode. | | | | | | | | | | | | |
| N→D LEVEL | The light detection level (4~15) at which the camera switches to day mode. Set MODE to AUTO and D→N LEVEL at least 3 less than N→D LEVEL. | | | | | | | | | | | | |
| NIGHT COLOR | Set the color mode in night mode. B/W = Black/white (no color burst) COLOR = Color Set MODE to AUTO or ON . | | | | | | | | | | | | |
| 3 PRIVACY | Masks an area of the screen from video monitoring <table border="1"> <thead> <tr> <th>Menu Item</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CONTROL</td> <td>ON = Hide an area of the scene from viewing.</td> </tr> <tr> <td>H START</td> <td>Set a horizontal start position (0~187).</td> </tr> <tr> <td>H END</td> <td>Set a horizontal end position (0~187).</td> </tr> <tr> <td>V START</td> <td>Set a vertical start position (0~122).</td> </tr> <tr> <td>V END</td> <td>Set a vertical end position (0~122).</td> </tr> </tbody> </table> | Menu Item | Description | CONTROL | ON = Hide an area of the scene from viewing. | H START | Set a horizontal start position (0~187). | H END | Set a horizontal end position (0~187). | V START | Set a vertical start position (0~122). | V END | Set a vertical end position (0~122). |
| Menu Item | Description | | | | | | | | | | | | |
| CONTROL | ON = Hide an area of the scene from viewing. | | | | | | | | | | | | |
| H START | Set a horizontal start position (0~187). | | | | | | | | | | | | |
| H END | Set a horizontal end position (0~187). | | | | | | | | | | | | |
| V START | Set a vertical start position (0~122). | | | | | | | | | | | | |
| V END | Set a vertical end position (0~122). | | | | | | | | | | | | |
| 4 MIRROR | Produces a horizontal mirror image on screen | | | | | | | | | | | | |
| 5 SHARPNESS | Sharpens the image on screen (image level 0~15). Excessive sharpening may cause picture noise. | | | | | | | | | | | | |
| 6 FACTORY-DEFAULT | Restores all factory default settings | | | | | | | | | | | | |
| 7 SW VERSION | Displays the current firmware version | | | | | | | | | | | | |
| 8 RETURN | Returns to the main SETUP menu | | | | | | | | | | | | |

Honeywell Systems Group (Head Office)
2700 Blankenbaker Pkwy, Suite 150
Louisville, KY 40299, USA
www.honeywellvideo.com
☎ +1.800.796.2288

Honeywell Security Australia Pty Ltd.
Units 4+5, Riverside Center
24-28 River Road West
Parramatta, NSW 2150, Australia
www.honeywellsecurity.com.au
☎ +61.2.8837.9300

Honeywell Security Asia Pacific
33/F Tower A, City Center, 100 Zun Yi Road
Shanghai 200051, China
www.asia.security.honeywell.com
☎ +86 21.5257.4568

Honeywell Security Asia
Flat A, 16/F, CDW Building
388 Castle Peak Road
Tsuen Wan, N.T., Hong Kong
www.asia.security.honeywell.com
☎ +852.2405.2323

Honeywell Security South Africa
Honeywell House, Bekker Street
Truer Close, Waterfall Park
Midrand 1685, South Africa
www.honeywell.com/security/za
☎ +27.11.695.8000

Honeywell Security Middle East
Post Office Box 18530
LOB Building 08, Office 199
Jebel Ali, Dubai United Arab Emirates
www.honeywell.com/security/me
☎ +971.04.881.5506

Honeywell Security UK
Aston Fields Road
Whitehouse Ind Est
Runcorn, Cheshire, WA7 3DL, UK
www.honeywell.com/security/uk
☎ +08448.000.235

Honeywell Video Systems Northern Europe
Network 121
1446 WV Purmerend
The Netherlands
www.honeywell.com/security/nl
☎ +31.299.410.200

Honeywell Security Deutschland
Johannes-Mauthé-Straße 14
D-72458 Albstadt, Germany
www.honeywell.com/security/de
☎ +49.74 31.8 01.0

Honeywell Security France
Parc Gutenberg, 8
Voie La Cardon
91120, Palaiseau, France
www.honeywell.com/security/fr
☎ +33.01.64.53.80.40

Honeywell Security Italia SpA
Via della Resistenza 53/59
20090 Buccinasco, Milan, Italy
www.honeywell.com/security/it
☎ +39.02.4888.051

Honeywell Security España
Mijancas 1. 3a planta
P.Ind. Las Mercedes
28022 Madrid, Spain
www.honeywell.com/security/es
☎ +34.902.667.800

Honeywell

www.honeywellvideo.com
+1.800.796.CCTV (North America only)
HVSsupport@honeywell.com

Document 800-03503 – Rev C – 03/09