

Operation Manual
OSD Color Camera

HCC-290N/P

※ Thank you for choosing Honeywell HCC-290N/P camera. Please read these instructions carefully before operating this unit, and retain this manual for future reference. If you have any problems with this camera, contact your local supplier to service.

CAUTION for SAFETY OPERATION



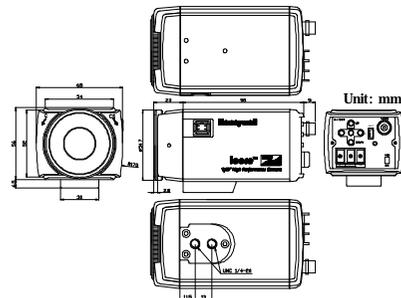
- Water and Moisture**
To prevent fire or shock hazard, do not expose this camera to rain or moisture.
- Servicing**
Do not attempt to disassemble or repair by yourself. You may be exposed to dangerous voltage or other hazards. Note that all servicing is qualified service personnel. Modifications not approved by manufacturer could void the user's authority to operate the equipment.
- Power Sources**
To prevent electric shocks and risk of hazards, do NOT use more than the specified power source.
- Environment**
Do not install too warm or too cold place. Recommended operation temperature is between -10°C and 50°C
- Sunlight**
Do not point the camera at the sun. CCD can be damaged.
- Heavy Shock and Vibration**
Do not drop the camera or subject it to heavy shock of vibration.
- Install on an Unstable Place**
Do not place or install this camera on an unstable place, stand, tripod, bracket or table. That may cause serious injury to people or damage to appliance.

TROUBLESHOOTING

Before sending the camera out for repair, check the items below. If the problem persists after checking these items, contact your service center.

- In case of no image**
Is the coaxial cable attached securely?
Are the power and voltage normal?
Has the iris of the lens inside the camera been adjusted correctly?
 - In case of unclear image**
Is the lens in focus?
Is the lens dirty?
Is the monitor adjusted correctly?
- ※ **Dirt or fingerprints on the lens can adversely affect the images.** Gently wipe any dirt or fingerprints off the lens with a soft cloth or lens cleaning paper and cleaning fluid (commercially available).

DIMENSIONS



8. When operation is incorrect or a malfunction is observed

While operating, if any abnormal condition (strange sound, smell or smoke) or a malfunction (no pictures, etc.) is observed, stop using the camera immediately, turn the power off, then contact your supplier.

9. Cleaning

Turn the power off and wipe off the dirt with a dry soft cloth. If it is extremely dirty, use furniture cleaner to wipe it off. To clean the lens, use a blower or lens cleaning tissue. (available from any camera dealer)

10. Do not shoot any source of bright light.

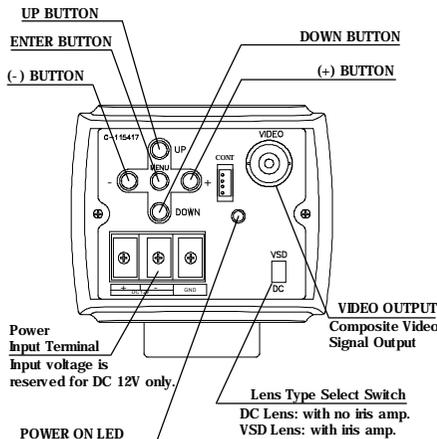
If the objects contain very bright areas, bright vertical or horizontal lines may appear on the screen. This is called "smear", a phenomenon which often occurs with solid-state pickups, and is not a malfunction.

11. Damage Requiring service

Unplug the camera from the power source and refer servicing to qualified service personnel under the following condition:

- If the power-supply cord or plug is damaged.
- If the camera has been exposed to rain or water.
- If liquid has been spilled, or objects have fallen into the camera.
- If the camera does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the camera to its normal operation.
- If the camera has been dropped or the cabinet has been damaged.
- If the camera exhibits a distinct change in performance.
- Warranty is not covered in case of natural disaster or wrong installation.

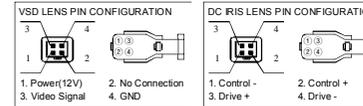
NAMES & FUNCTIONS



INSTALLATION

Mounting a lens

- Remove the Protective cap in front of the camera.
- Confirm the mount ring whether it is for C or CS.
- Attach the lens to the lens mount ring.
- If the lens has an Auto Iris mechanism, connect the iris cable to the LENS in rear of the camera.
 - In the case of having no iris amplifier : Set the slide switch to DC (Down side).
 - In the case of having iris amplifier : Set the slide switch VSD (Upper side)
 - ※ When connecting Auto iris lens, be sure to use the connector to be recommended by manufacturer. (E4-191, ChuoMusen, Japan)



Back focus adjustment

- In case of fixed focus lens
 - Loosen the locking ring with L type wrench and set the focus ring of lens to infinity (∞).
 - Tune the mount ring to get a clear picture (distance from camera to object is more than 23m) and fasten the locking ring.
- In case of zoom lens
 - Loosen the locking ring with L type wrench and set the lens to the maximum telephoto position. Then turn the focus ring to focus.
 - ※ In the case of Auto iris lens only, shoot a comparatively dark object or reduce the ambient light so that the aperture is fully open.
 - Set the lens to its maximum wide angle position, and set the focus.
 - Repeat step ① and ②, until the difference between focusing position ① and ② is smallest.
 - When the best focusing point in found, fasten the locking ring.

Connection of power supply

Must be checked the power source from the external power supply before power on.

OSD MENU

GENERAL SETUP

SYNC SYNC LEVEL adjustment (0h 1h ~ 255)
BURST BURST LEVEL adjustment (0h 1h ~ 255)
CONTRAST CONTRAST LEVEL adjustment (0h 1h ~ 100)
RETURN Return to the previous menu.

CAMERA SETUP

AE MODE LENS MODE, SHUTTER, AGC, BRIGHTNESS, MAX AGC, MAX FIELDS, etc.
WB MODE AWC LOCK, AWC AUTO, ATW, INDOOR, OUTDOOR, MANUAL, etc.
BLC MODE OFF, BLC, WDR, BMB and their level area setting.
PZM SET Privacy Zone Masking function setting.
NIGHTSHOT Day & Night, Night & Day mode setting.
CAMERA ID Camera ID and Position setting.
RETURN Return to the previous menu.

MEM FUNC. SETUP

DNR MODE Digital Noise Reduction mode setting. (OFF & LOW & HIGH)
PP MODE Picture-in-picture mode setting.
QUAD MODE Quad display mode setting.
MD MODE Motion Detection mode setting.
D.ZOOM Digital Zoom setting. (OFF & 1.0x ~ 16.0x)
MIRROR MIRROR Mode setting. (OFF & H.MIRROR & V.MIRROR & FLP)
RETURN Return to the previous menu.

SPECIAL SETUP

SHARPNESS Sharpness compensation setting. (0 ~ 15)
GAMMA Gamma compensation setting. (0.30 ~ 1/USER, 8steps)
LANGUAGE OSD Language setting. (ENG, KOR, JPN, CHI, CHI2)
RETURN Return to the previous menu.

DEFAULT SETUP

FACTORY DEFAULT Set to the Factory Default.
RETURN Return to the previous menu.

EXIT SETUP

SAVE AND EXIT Return to the previous menu.
EXIT Return to the previous menu.

The CONTENTS of the PACKAGE

Check the below contents

- HCC-290N/P Camera 1set
- Auto Iris Lens Plug
- Operation Manual

SPECIFICATIONS

MODEL NAME	HCC-290N	HCC-290P
Operational		
Video Standard	NTSC	PAL
Image Sensor	SONY 1/2" EX-view HAD CCD	
Total Pixel	410,000 Pixels	470,000 Pixels
Effective Pixel	380,000 Pixels	440,000 Pixels
Scanning System	525 Lines, 2:1 Interlace	625 Lines, 2:1 Interlace
Sync System	15.734Hz(H), 59.94Hz(V)	
S/N Ratio	INTERNAL More than 50dB	
Min. Illumination	0.1lx (F-1.2, 50IRE, MAX AGC) 0.0001lx (F-1.2, 50IRE, MAX AGC, MAX FIELDS x512)	
Horizontal Resolution	340TV Lines	
Video Output	VHS, 1.0V-p-p / BNC	
Lens Iris Control	MANUAL / DC / VSD	
Electronic Shutter	1/60 ~ 1/100,000 sec	1/50 ~ 1/100,000 sec
AGC	OFF ~ 30dB	
Back Light Compensation	OFF / BLC / WDR / BMB	
White Balance	AWC LOCK / AWC AUTO / ATW / INDOOR / OUTDOOR / MANUAL	
Electrical		
Rated Voltage	DC 12V ± 2V	
Power Consumption	1.0W (max)	
Mechanical & Environmental		
Lens Mount	C / CS Mount	
Weight	303g	
Dimensions	88(W) × 56(H) × 138(D)mm	
Front & Rear Color	Pantone Color 11C (Gray)	
Body Color	Silver	
Operating Temp.	-10°C ~ +50°C	
Storage Temp.	-20°C ~ +70°C	
Operating Humidity	90% RH (non-condensing)	

Honeywell

Honeywell Security Group
Honeywell Co., Ltd.

Operation Manual
OSD Color Camera

HCC-295P

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CAUTION for SAFETY OPERATION



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- Servicing**
Do not attempt to disassemble or repair by yourself. You may be exposed to dangerous voltage or other hazards. Note that all servicing is qualified service personnel. Modifications not approved by manufacturer could void the user's authority to operate the equipment.
- Power Sources**
To prevent electric shocks and risk of hazards, do NOT use more than the specified power source.
- Environment**
Do not install too warm or too cold place. Recommended operation temperature is between -10°C and 50°C
- Sunlight**
Do not point the camera at the sun. CCD can be damaged.
- Heavy Shock and Vibration**
Do not drop the camera or subject it to heavy shock of vibration.
- Install on an Unstable Place**
Do not place or install this camera on an unstable place, stand, tripod, bracket or table. That may cause serious injury to people or damage to appliance.

8. When operation is incorrect or a malfunction is observed

While operating, if any abnormal condition (strange sound, smell or smoke) or a malfunction (no pictures, etc.) is observed, stop using the camera immediately, turn the power off, then contact your supplier.

9. Cleaning

Turn the power off and wipe off the dirt with a dry soft cloth. If it is extremely dirty, use furniture cleaner to wipe it off. To clean the lens, use a blower or lens cleaning tissue. (available from any camera dealer)

10. Do not shoot any source of bright light.

If the objects contain very bright areas, bright vertical or horizontal lines may appear on the screen. This is called "smear", a phenomenon which often occurs with solid-state pickups, and is not a malfunction.

11. Damage Requiring service

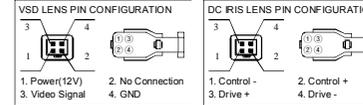
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- If the camera does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the camera to its normal operation.
- If the camera has been dropped or the cabinet has been damaged.
- If the camera exhibits a distinct change in performance.
- Warranty is not covered in case of natural disaster or wrong installation.

INSTALLATION

Mounting a lens

- Remove the Protective cap in front of the camera.
- Confirm the mount ring whether it is for C or CS.
- Attach the lens to the lens mount ring.
- If the lens has an Auto Iris mechanism, connect the iris cable to the LENS in rear of the camera.
 - In the case of having no iris amplifier : Set the slide switch to DC (Down side).
 - In the case of having iris amplifier : Set the slide switch VSD (Upper side)
 - ※ When connecting Auto iris lens, be sure to use the connector to be recommended by manufacturer. (E4-191, ChuoMusen, Japan)



Back focus adjustment

- In case of fixed focus lens
 - Loosen the locking ring with L type wrench and set the focus ring of lens to infinity (∞).
 - Tune the mount ring to get a clear picture (distance from camera to object is more than 23m) and fasten the locking ring.
- In case of zoom lens
 - Loosen the locking ring with L type wrench and set the lens to the maximum telephoto position. Then turn the focus ring to focus.
 - ※ In the case of Auto iris lens only, shoot a comparatively dark object or reduce the ambient light so that the aperture is fully open.
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Connection of power supply

Must be checked the power source from the external power supply before power on.

TROUBLESHOOTING

Before sending the camera out for repair, check the items below. If the problem persists after checking these items, contact your service center.

In case of no image

- Is the coaxial cable attached securely?
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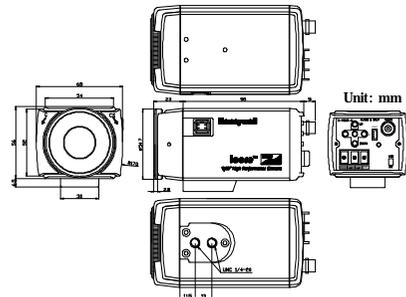
In case of unclear image

- Is the lens in focus?
- Is the lens dirty?

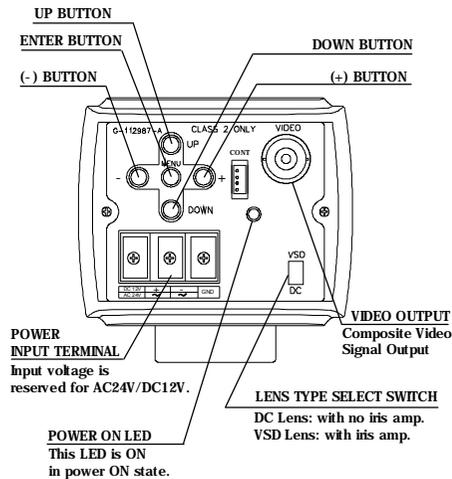
Is the monitor adjusted correctly?

※ Dirt of fingerprints on the lens can adversely affect the images. Gently wipe any dirt or fingerprints off the lens with a soft cloth or lens cleaning paper and cleaning fluid (commercially available).

DIMENSIONS



NAMES & FUNCTIONS



OSD MENU

GENERAL SETUP

SYNC BURST CONTRAST RETURN
 SYNC LEVEL adjustment (0h 1h ~ 255)
 BURST LEVEL adjustment (0h 1h ~ 255)
 CONTRAST LEVEL adjustment (0h 1h ~ 100)
 Return to the previous menu.

CAMERA SETUP

AE MODE WB MODE BLC MODE PZM SET NIGHTSHOT CAMERA ID RETURN
 LENS MODE, SHUTTER, AGC, BRIGHTNESS, MAX AGC, MAX FIELDS, etc.
 AWC LOCK, AWC AUTO, ATW, INDOOR, OUTDOOR, MANUAL, etc.
 OFE, BLC, WDR, BMB and their level area setting.
 Privacy Zone Masking function setting.
 Day & Night, Night & Day mode setting.
 Camera ID and Position setting.
 Return to the previous menu.

MEM FUNC. SETUP

DNR MODE PP MODE QUAD MODE MD MODE D.ZOOM MIRROR RETURN
 Digital Noise Reduction mode setting. (OFF & LOW & HIGH)
 Picture-in-picture mode setting.
 Quad display mode setting.
 Motion Detection mode setting.
 Digital Zoom setting. (OFF & 1.0x ~ 16.0x)
 Mirror mode setting. (OFF & H.MIRROR & V.MIRROR & FLP)
 Return to the previous menu.

SPECIAL SETUP

SHARPNESS GAMMA LANGUAGE RETURN
 Sharpness compensation setting. (0 ~ 15)
 Gamma compensation setting. (0.30 ~ 1/USER, 8steps)
 OSD Language setting. (ENG, KOR, JPN, CHI, CH2)
 Return to the previous menu.

DEFAULT SETUP

FACTORY DEFAULT RETURN
 Set to the Factory Default.
 Return to the previous menu.

EXIT SETUP

SAVE AND EXIT EXIT RETURN
 Return to the previous menu.

The CONTENTS of the PACKAGE

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Image Sensor	SONY 1/2" EX view HAD CCD
Total Pixel	470,000 Pixels
Effective Pixel	440,000 Pixels
Scanning System	625 Lines, 2:1 Introduce
Scanning Frequency	15.625kHz (H), 50Hz (V)
Sync System	INTERNAL
S/N Ratio	More than 50dB
Min. Illumination	0.1lx (F-1.2, 50IRE, MAX AGC) 0.0001lx (F-1.2, 50IRE, MAX AGC, MAX FIELDS & 512)
Horizontal Resolution	>40 TV Lines
Video Output	VBS, L, 0p, BNC
Lens Iris Control	MANUAL / DC / VSD
Electronic Shutter	1/50 ~ 1/100,000 sec
AGC	OFF ~ 30dB
Back Light Compensation	OFF / BLC / WDR / BMB
White Balance	AWC LOCK / AWC AUTO / ATW / INDOOR / OUTDOOR / MANUAL
Electrical	
Rated Voltage	AC24V ± 10% / DC12V ± 2V
Power Consumption	Max 3.3[W]
Mechanical & Environmental	
Lens Mount	C / CS Mount
Weight	250g
Dimensions	88(W) × 56(H) × 138(D)mm
Front & Rear Color	Pantone Color 11C (Gray)
Body Color	Silver
Operating Temp.	-10°C ~ +50°C
Storage Temp.	-20°C ~ +70°C
Operating Humidity	90% RH (non-condensing)

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