

HTINTT5H

700Line Intensifier HTM

Traditional Box type camera

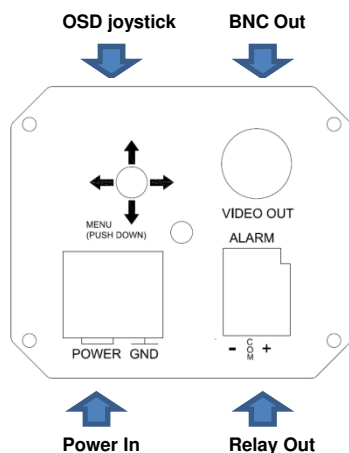


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1. PACKAGE CONTENTS

- 1 Camera
- 2 Mounting Screw
- 1 Mounting Bracket
- 1 Wrench

2. BACK PANEL CONFIGURATION



3. FEATURES

PRESETS

Used for a quick and easy setup for the installation environment.

700TVL Resolution

Horizontal resolution of 700 TV lines is achieved by using a SONY Super-HAD CCD with 520,000 pixels, and a custom DSP yielding pictures with a high S/N ratio.

INTENSIFIER 3

More powerful performance in low light condition. High quality pictures can be captured in very low light conditions.

WDR

Allows you to get a clear image even with strong back-lighting.

SPECO DNR

DSP chip can remove image noise to produce clean images in low light conditions.

HLC (High Light Compensation)

This function reverses bright spots in the picture (such as headlights). This enables the entire system to do a better job of resolving and displaying grayscale information such as a license plate.

Motion Detection with Alarm Output

Built in motion detector with adjustable areas of coverage will send a signal to an external alarm device when motion is detected.

PRIVACY MASK

Mask up to 8 areas of the picture where viewing is not desired. Each zone can be independently programmed via the OSD

STABILIZER

Removes image jitter that is caused by vibrations in the surroundings.

DIGITAL ZOOM

Digitally enlarge the picture.

DAY/NIGHT

Can show color pictures in all lighting conditions or automatically switch to a B/W picture in low light conditions

OSD

All camera functions are menu driven for easy use.

4. OSD MENU DETAILS

1. PRESET

Used for a quick and easy setup for the installation environment.



2. LENS SETUP

- BRIGHTNESS : Adjusts the video brightness.
- IRIS SPEED : Adjusts Iris control speed of the DC lens.
- FOCUS ADJ : To adjust the DC lens focus correctly, you must change MODE to ON under the FOCUS ADJUST menu. Adjust the lens focus and after the lens focus had been adjusted, change MODE to OFF.



3. EXPOSURE SETUP

- ◆ BRIGHTNESS : Adjusts the video brightness.
- ◆ SHUTTER : You can select auto or manual shutter.
- * A.FLK : Select this when you see picture flicker, this can happen when the frequency of the local lighting clashes with the camera.
- * ESC : Select this to control the shutter speed automatically. If ESC is selected, the shutter speed is automatically controlled depending on the ambient illumination of the subject.
- * MANUAL : You can control shutter speed manually. (1/60 ~ 1/120,000)
- * --- : Shutter speed is fixed at 1/60 sec. (1/50 sec.)

- ◆ AGC (AUTO GAIN CONTROL) : The higher the gain level, the brighter the screen - but the higher the noise.
- * OFF : Deactivates the AGC function.
- * LOW : Allows automatic gain control from 5.3dB to 32dB.
- * HIGH : Allows automatic gain control from 5.3dB to 37dB.
- ◆ INTENSIFY : When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
- * OFF : Deactivates the INTENSIFY function.
- * AUTO : Activates the INTENSIFY function.

4. WDR SETUP

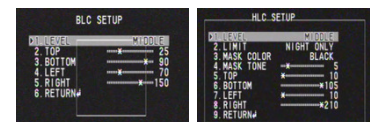
WDR illuminates darker spots of an image while retaining the same light level for brighter spots to even out the overall brightness of images with high contrast between bright and dark spots.

5. WHITE BAL. SETUP

- ◆ ATW : Select this when the color temperature is between 1,700°K and 11,000°K.
- ◆ OUTDOOR : Select this when the color temperature is between 1,700°K and 11,000°K. (sodium light inclusion)
- ◆ INDOOR : Select this when the color temperature is between 4,500°K and 8,500°K.
- ◆ MANUAL : Select this to fine-tune White Balance manually. Set White Balance first by using the ATW or AWC mode. After that switch to MANUAL mode, fine-tune the White Balance and then press the Function Setup switch.
- ◆ AWC—SET : For optimal luminance level for the current environment, point the camera towards a sheet of white paper and press the Function Setup switch. If the environment changes, readjust it.

6. BACK LIGHT SETUP

- ◆ USER BLC : Enables a user to select a desired area on a picture and view that area more clearly.
- ◆ HLC (High Light Compensation) : If the scene contains extremely bright light areas such as car headlights, the light can mask out much of the on-screen detail. Use this feature to remove these exceptionally bright light areas to allow detail such as car license plate numbers to become visible.



NOTES

- Because there can be a difference in the effectiveness of HLC according to the amount of light area in the screen, optimize the installation angle for the best HLC performance.
- When dark, HLC is activated in NIGHT ONLY mode when a bright light exceeds a specific amount.
- When in NIGHT ONLY mode, HLC is not activated in daylight or in nighttime when bright light is not present

7. SPECO DNR SETUP

This function reduces the background noise in a low luminance environment level.

NOTE

- When the AGC mode of the EXPOSURE menu is 'OFF', you cannot set the SPECO DNR to 'ON' or 'OFF'.
- When adjusting the noise reduction level in DNR3 mode, remember that the higher the level that is set, the greater the noise level reduction, as is the brightness of the image.

8. DAY/NIGHTSETUP

- COLOR** : The picture is always displayed in color.
- B/W** : The picture is always displayed in black and white.
- BURST MODE** : You can turn on or off the burst signal on B/W mode.
- AUTO** : The mode is switched to 'Color' in a normal environment, but switches to 'B/W' mode when ambient illumination is low. To set up the switching time for AUTO mode, press the Function Setup switch. You can turn on or off the burst signal on B/W mode.
- BURST MODE** : You can turn on or off the burst signal on B/W mode.
- DURATION** : You can select brightness of illumination about changing the day/night mode.
- DWELLTIME** : You can select the duration time at

	COLOR→B/W	B/W→COLOR
FAST	2 lux	5 lux
SLOW	1 lux	5.5 lux

9. SPECIAL SETUP

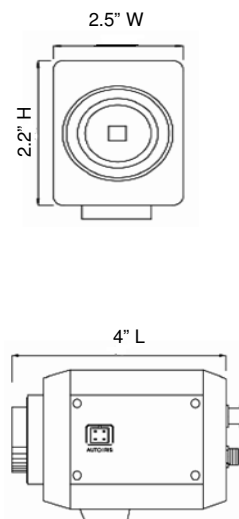
- IMAGE ADJ.**
 - Monitor
 - Reverse
- *PIP (Picture in Picture)** : Displays a full size image along with the thumbnail to provide more detailed information.
- D-ZOOM** : Digital zoom up to 16x
- Font Color
- Sharpness
- Language

- ◆ SYNC** : In areas where the supply is at 60Hz(NTSC), 50Hz(PAL), you can synchronize the output phase of multiple cameras using the power synchronization function (Line-Lock) without using a synchronization signal generator.
- INT** : Internal Synchronization Type
- L/L** : Power Synchronization Type, Line-lock

- ◆ MOTION** : This camera allows you to observe movement of objects in 8 different areas on the screen, and the words 'MOTION DETECTED' appear on the screen when movement is detected.
- MOTION** : Enable or disable the motion detection feature.
- * DETECTION** : Activates motion detection
- DETECT BOX** : Outlines an object on the screen in a box when movement matches a custom motion type.
- ALARM OUT** : Trigger the signal from the Alarm Output Terminal of the camera when an object's movement matched a custom motion type.
- DETECT AREA** : Defines the motion detection area.
- MASK AREA** : Specify a detection exception area to mask. Select a mask area number and specify the size and position.
- * AREA** : Select up to 4 areas
- * MODE** : Turn the selected area ON or OFF.
- * TOP/BOTTOM/LEFT/RIGHT** : Adjust the size and position of the selected area.
- SENSITIVITY** : Set the sensitivity of the motion detection. The higher the level, the motion detection sensitivity is increased to recognize smaller movements.
- DET. SIZE** : Selects an object size to detect on the screen. The higher the level means the larger the detection size.

- ◆ PRIVACY**
 - AREA SEL** : You can select up to 12 PRIVACY areas.
 - MODE** : Turn the selected area ON or OFF.
 - MASK COLOR** : Determine area color. Select GREEN, RED, BLUE, BLACK, WHITE and GRAY.
 - TRANSPARENCY** : Add or remove transparency from the masked area.
 - SEL POS** : Adjust the size and position of the selected area.
 - X POS, - Y POS**

5. DIMENSIONS



6. SPECIFICATION

Image Pick-Up Device	1/3" 960H Sony Super HAD CCD
Total Pixels	NTSC=1020(H) * 508(V) / PAL=1020(H) * 596(V)
Effective Pixels	NTSC=976(H) * 494(V) / PAL=976(H) * 582(V)
Scanning Frequency	NTSC=15.734KHz(H) & 59.94Hz(V) PAL=15.625KHz(H) & 50.00Hz(V)
Scanning System	2:1 Interlace
Synchronization	Internal
Resolution	700TV Lines
Minimum Illumination	0.15 Lux, 0.00002 Lux (Sens-up)
S/N Ratio	More than 52dB
Video Output	CVBS: 1.0Vp-p / 75Ω
Electronic Shutter Speed	NTSC=(1/60sec~1/120,000sec) PAL=(1/50sec~1/120,000sec)
WDR	On / Off (Level adjustable)
BLC	BLC / HLC / OFF
Day & Night	Color / BW / AUTO / EXT
Gain Control	Low / High / Off
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700°K ~ 11,000°K)
Intensify	Auto / Off (Selectable x2 ~ x512)
Motion Detection	On / Off (8 Programmable Zones)
Privacy Masking	On / Off (12 Programmable Zones)
SPECO DNR	On / Off (Level adjustable)
Power Supply	DC 12V / AC24V(Dual Voltage)
Power Consumption	DC 12V 260mA / AC24V 240mA
Lens	CS Mount Lens Optionally
Operational Temp.	-4°F~140°F RH 95% Max
Storage Temp.	-4°F~140°F RH 95% Max
Dimension	2.51"(W) * 2.20"(H) * 3.46"(D)
Weight	1.5 lbs



LIMITED WARRANTY - VIDEO PRODUCTS

THIS WARRANTY IS VALID ONLY ON PRODUCTS PURCHASED AND USED IN THE UNITED STATES OF AMERICA AND CANADA. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL USER.

SUBJECT TO CONDITIONS AND EXCLUSIONS FOUND BELOW, THIS PRODUCT IS WARRANTED AGAINST MANUFACTURING DEFECTS IN MATERIAL AND WORKMANSHIP FOR THE FOLLOWING PERIOD FOR PARTS AND LABOR:

SPECO TECHNOLOGIES CAMERAS.....	5 YEARS	DVRs.....	3 YEARS
SPECO TECHNOLOGIES IP CAMERAS.....	2 YEARS	NVRs.....	3 YEARS
SPECO PTZ AND VL CAMERAS.....	1 YEAR	BALANCE OF	
SPECO TECHNOLOGIES MONITORS.....	1 YEAR	SPECO TECHNOLOGIES LINE.....	1 YEAR
IR LEDS.....	90 DAYS		

SPECO TECHNOLOGIES WILL REPAIR OR REPLACE (AT OUR DISCRETION) ANY PARTS FOUND TO BE DEFECTIVE FOR THE WARRANTY PERIOD SPECIFIED. WE WILL PROVIDE A REPLACEMENT FOR ANY DEFECTIVE PART.

CONDITIONS

- YOU MUST OBTAIN A RETURN AUTHORIZATION (RA) NUMBER FOR ANY MERCHANDISE BEING RETURNED TO SPECO TECHNOLOGIES, WHETHER FOR RETURN/EXCHANGE OR REPAIR, WHETHER IN OR OUT OF WARRANTY.
- THIS WARRANTY WILL BE HONORED ONLY UPON PRESENTATION OF THE ORIGINAL DATED BILL OF SALE OR SALES SLIP.
- TRANSPORTATION OF THE PRODUCT TO OUR SERVICE DEPARTMENT IS THE RESPONSIBILITY OF THE USER. REPAIRED OR REPLACED PRODUCT WILL BE RETURNED PREPAID DURING THE WARRANTY PERIOD.
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EXCLUSIONS

- THIS WARRANTY SHALL NOT COVER ADJUSTMENT OF CUSTOMER OPERATED CONTROLS AS EXPLAINED IN THE APPROPRIATE MODEL'S INSTRUCTION MANUAL OR PRODUCTS WHICH HAVE BEEN ALTERED, ABUSED, OR HAVE MISSING OR ALTERED SERIAL NUMBERS.
 - THIS WARRANTY SHALL NOT APPLY TO UNCRATING, SETUP, INSTALLATION, OR THE REMOVAL AND REINSTALLATION OF PRODUCTS AFTER REPAIR.
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- THE FOREGOING IS IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND WE DO NOT AUTHORIZE ANY PARTY TO ASSUME FOR US ANY OTHER OBLIGATION OR LIABILITY. IN NO EVENT SHALL WE BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE USE OF THIS PRODUCT DUE TO CAUSES BEYOND OUR CONTROL. SOME STATES DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES. THE ABOVE LIMITATIONS ON IMPLIED WARRANTY AND CONSEQUENTIAL DAMAGES MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
- NOTE: FOR YOUR PROTECTION IN THE EVENT OF THEFT OR LOSS OF THIS PRODUCT, PLEASE FILL IN THE INFORMATION REQUESTED BELOW AND RETAIN WITH YOUR SALES RECEIPT.**

MODEL NO.: _____ SERIAL NO.: _____
(LOCATED ON BACK OR BOTTOM OF UNIT)
DATE OF PURCHASE: _____
WHERE PURCHASED: _____ PURCHASE PRICE: _____

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FOR MORE INFORMATION REGARDING SERVICE OR RETURN,
CALL US TOLL FREE: 1-800-645-5516 IN METRO NY: 631-957-8700

ALWAYS USE DISCRETION WHEN INSTALLING VIDEO AND/OR AUDIO SURVEILLANCE EQUIPMENT ESPECIALLY WHEN THERE IS AN EXPECTATION OF PRIVACY. INQUIRE REGARDING FEDERAL, STATE AND/OR LOCAL REGULATIONS APPLICABLE TO THE LAWFUL INSTALLATION OF VIDEO AND/OR AUDIO RECORDING OR SURVEILLANCE EQUIPMENT. PARTY CONSENT MAY BE REQUIRED.

2.5 08-01

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