960H 700TVL Color Indoor Dome Camera with 24LEDs

HLED33D1B - 2.8~12mm auto iris lens, black housing

HLED33D1W - 2.8~12mm auto iris lens, white housing

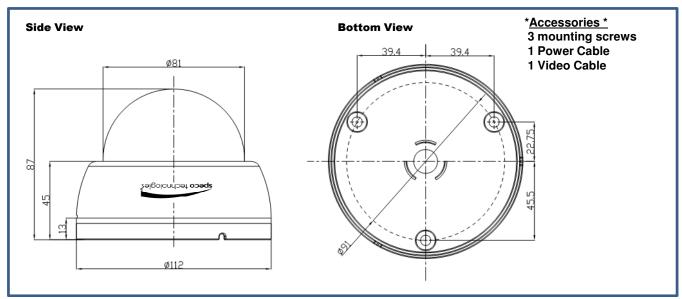
HLED33D7B - 3.6mm lens, black housing

HLED33D7W - 3.6mm lens, white housing



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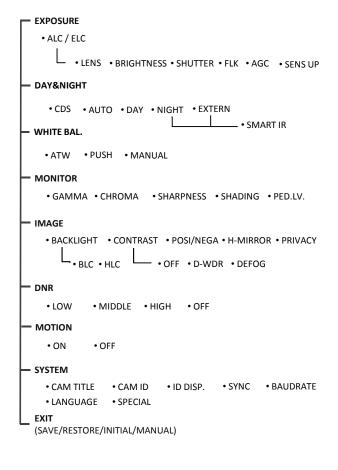
DIMENSIONS



SPECIFICATIONS

ITEM	960H 700TVL IR Indoor Dome Camera
Lens	HLED33D1B(W) – 2.8~12mm auto iris lens HLED33D7B(W) - 3.6mm fixed lens
Image Sensor	1/3" COLOR 960H CCD
Resolution	700TV lines
Total Pixels	1020(H) x 508(V) (NTSC)
Effective Pixels	976(H) x 494(V) (NTSC)
Scanning System	2:1 Interlace
Synchronization	Internal
Min. Illumination	0.00Lux (LED-On)
Number of IR LEDs	24LEDs
IR Range	65' (depending on scene reflection)
S/N (Y signal)	50dB
AGC	Level Adjustable
Shutter	1/60~1/120,000sec (NTSC)
DAY / NIGHT	AUTO / NIGHT / DAY
Image	BLC / D-WDR / DEFOG
White Balance	ATW / PUSH / MANUAL
DNR	LOW / MIDDLE / HIGH
Motion Detection	ON OFF (4 Programmable Zone)
Privacy Masking	ON OFF (8 Programmable Zone)
Power Consumption	350mA
Power Supply	12VDC / 24VAC Dual Voltage
Operational Temp.	14°F-122°F
Storing Temp.	-4°F-140°F
Dimensions	3.4" (H) x 4.4" (Dia.)
Weight	8oz.

OSD MENU TREE



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OSD MENU FUNCTIONS

EXPOSURE: Adjusts exposure settings.

ALC (Automatic Light Control) : Used with auto iris lens only - HLED33D1B(W) ELC (Electronic Light Control) : Used with fixed lens only - HLED33D7B(W)

LENS: Select the lens type (ALC/ELC)

BRIGHTNESS: Adjusts image brightness. (0~20)
SHUTTER: Auto / Manual Shutter can be selectable

You can control manually from 1/60 to 1/120000.

FLK(Flicker Less): Selects this when picture flickering. The picture flickering can be caused by a clash with the frequency of the installed lighting.(ON/OFF)

AGC: Adjusts the Automatic Gain Control level. (0~20)

SENS-UP: Automatically provides a clear image under low-light conditions. You can control the maximum low-light magnification from x2 to x1024 (increasing magnification may cause noise/distortion).

IRIS OFFSET: Adjusts the Iris Offset level. (0~20)

DAY / NIGHT : Adjust Day / Night options.

EXTERN: Day / Night is switching automatically by built-in Photo Sensor.

EXTERN S/W: Adjusts the Extern switching level (LOW/HIGH) D/N DELAY: Adjusts the calculation time for the trigger(0~15sec)

B/W BURST: Selects the B/W BURST Mode (ON/OFF)

SMART IR: Uses to produce the best image quality by preventing IR saturation when IR LEDs are on. (LED Power/Anti-SAT/SAT.AREA)

NIGHT : Full time B/W mode.

B/W BURST & SMART IR: same as above

DAY: Full time color mode.

CDS & AUTO: Not used for this camera

WHITE BAL: Adjusts white balancing options.

ATW: Automatically white balances the image.

PUSH: If you press the PUSH switch in the appropriate item position, Auto White Balance will perform once.

MANUAL: Selects the MANUAL white balancing mode to manually adjust the scene to your desired settings.

RED : Adjusts the red gain level. (0 $^{\sim}$ 20) BLUE : Adjusts the blue gain level. (0 $^{\sim}$ 20)

MONITOR: Sets the video output to main input types.

GAMMA: Sets the desired Gamma value. (0.35/0.40/0.45/0.50/0.55/0.60/0.65/0.70)

CHROMA: Sets the color gain (0~20)

SHARPNESS : Sets the amount of sharpness applied on the image(0 $^{\sim}$ 20) SHADING : Sets the Lens Shading Compensation value. (0 $^{\sim}$ 20)

PED. LV : Sets the Pedestal Level (0~20)

IMAGE: Adjusts various effect options.

BACKLIGHT : : Adjusts backlight options.

BLC : Produces a clearer image of an object darkened by strong backlighting. HLC : Uses to contain extremely bright areas such as from car headlight,

the light can be masked out much of the on-screen details.

CONTRAST: Adjusts Contrast options.

D-WDR: Uses a digital wide dynamic range to balance dark and over saturated areas within the image.

DEFOG: Activated this mode when the video or the weather is foggy.

It maintains a clear picture.

POSI/NEGA: Changes to Positive or Negative image.

 $\mbox{H-MIRROR}$:Flips the image along the y-axis.

PRIVACY: Used to hide regions of the image.

ON: MASK LV: Selects the desired mask color

AREA NO.: Selects the current mask area from1 to 8 zones DISPLAY: Selects ON/OFF to display of mask zone or not.

TOP/BOTTOM/LEFT/RIGHT: Adjusts the mask zone size for directions.

DNR: Reduces the background noise caused by the digital enhancement of a low light environment. If AGC is turned OFF, the 2D-DNR will be disabled. (LOW/MIDDLE/HIGH)

MOTION: Adjusts motion detection settings.

ON: SENSITIVITY: Sets the desired multiple of the digital exposure length.(0~20)

AREA NO: Selects the current motion zone from area1 to 4.

AREA USE: Adjusts the motion detection zone size.

TOP/BOTTOM/LEFT/RIGHT: Adjusts the mask zone size for directions

SYSTEM: Adjusts various System options.

CAM TITLE: Determines the camera name. (ON/OFF)

CAM ID : Sets the ID for the RS-485 (0 $^{\sim}$ 255)

ID DISP.: ON(Disables camera NO/ID)/OFF(Displays camera No/ID) BAUDRATE:: Sets the baud rate for the RS-485 (2400~115200) LANGUAGE: Sets the desired OSD language. (ENGLISH/CHINESE)

 ${\sf SPECIAL}: Adjusts\ special\ options.$

DEFECT DET: Uses this mode when "White Spot(Dead Pixel)" on screen

is occurred.

FONT COLOR: Sets the camera OSD color(0~8)

EXIT

SAVE: Press to save the current settings and exit main menu. RESTORE: Press to exit main menu without saving settings. INITIAL: Resets all settings to it's factory defaults.

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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 LISES.

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 CAMERAS5 YEARS	DVRs3 YEARS
SPECO TECHNOLOGIES IP CAMERAS2 YEARS	NVRS3 YEARS
SPECO PTZ AND VL CAMERAS1 YEAR	BALANCE OF
SPECO TECHNOLOGIES MONITORS1 YEAR	SPECO TECHNOLOGIES LINE1 YEAR
IR LEDS90 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.

CONDITION

1. 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.

2. 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.

PRODUCT WILL BE RELIGINED PREVAID DURING THE WARRANT YEARDOL.

A SPECO TECHNOLOGIES DOES NOT AUTHORIZE AN ITERRET OR MAIL OFFICE PRODUCT SALES. IF A SPECO TECHNOLOGIES PRODUCT IS PURCHASED FROM AN UNAUTHORIZED DISTRIBUTOR OR OTHER SOURCE, INCLUDING RETALLERS, MAIL ORDER SELLERS AND ONLINE TECHNOLOGIES PRODUCT FUNCHASED FROM THESE ONLINE METCHANTS WILL YOU THE PROPURSE WARRANT AND IS INSELLED FOR TECHNOLOGIES PRODUCT FUNCHASED FROM THESE ONLINE METCHANTS WILL YOU THAN THE OUTSIT FOR UNITED THE OTHER PURCHASE WARRANT AND IS INSELLED FOR TECHNOLOGIES AT 1-800-645-5516 FOR A LIST OF UNAUTHORIZED DEALERS, VISTI WARRANGEORGEN CHARMANDERING.

EXCLUSION

 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.

2. THIS WARRANTY SHALL NOT APPLY TO UNCRATING, SETUP, INSTALLATION, OR THE REMOVAL AND REINSTALLATION OF PRODUCTS AFTER REPAIR.

AT LER REPRIE.

AT THIS WARRANTY SHALL NOT APPLY TO REPAIRS OR REPLACEMENTS NECESSITATED BY ANY CAUSE BEYOND THE RESULT OF MANUFACTURE INCLUDION, BUT NOT LIMITED TO, ANY MALFUNCTION, DEFECTS OF FAILURE CAUSED BY OR RESULTION FROM ACCIDENT, REP. LOCO, OR OTHER ACTS OF NATURE, INCORPRECT LIMIT NO VOLTACE, DAMAGE OR IMAGE BURNS TO TELEVISION PICTURE TUBES CAUSED BY OR ATTRIBUTABLE TO THE USE OF ANY ACCESSORY, ELECTRONICS GAME OR DEVICE, OR DAMAGE CAUSED TO MADE PRICAUDE TO THE MADE PROVED THE TOP TO THE MADE TO THE MADE

CAUSED TO MAGE PICKUL PERVICES BY EXCESSIVE LIGHT.

THE FOREGOING IS IN LIEU OF ALL OTHER EXPRESSIVE LIGHT.

AND THER FOREGOING IS IN LIEU OF ALL OTHER EXPRESSIVE AND AND AND THE ON THE AND THE ORDINATION OR LIGHTLY IN NO EVENT SHALL WE BE AND THE PRODUCT OR THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNE

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 RE	TAIN WITH YOUR SALES REC	EIPT.		
MODEL NO.:(LOCATED ON BACK OR BOTTOM OF UNIT)			SERIAL NO.:	
DATE OF PURC	CHASE:			
WHERE PURCHASED:		PURCHASE PRICE:	_	
	Speco Technologies 200 New Highway	FOR MORE INFORMATION REGARDING SERVICE OR RETURN,		

Speco Technologies
200 New Highway
FOR MORE INFORMATION REGARDING SERVICE OR RETURN,
Amhyvile, NY 11701
www.specofech.com

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

Speco Technologies is constantly developing product improvements. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Rev. 052614

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