

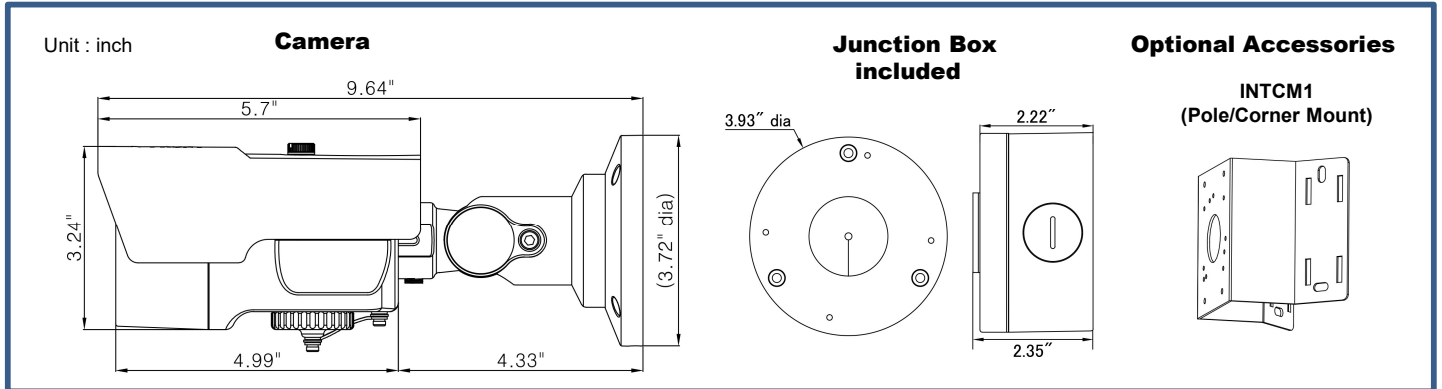
# 4MP Flexible Intensifier® HD-TVI Bullet Camera with Junction Box, Wall/Ceiling Mount, Dual voltage



200 New Highway, Amityville, NY 11701  
800-645-5516 / www.specotech.com

## H4FB2M – 2.7~12mm motorized zoom focus lens, dark gray housing

### DIMENSIONS



### FEATURES

- Flexible Intensifier Technology® fits any lighting application
- Supports 4MP @ 30FPS
- True WDR operation
- Adaptive IR LED's
- Presets: Outdoor, Low Light, Hallway, Lobby, Elevator, Indoor
- Built-in heater and anti-fog glass reduces condensation
- 3-axis for wall and ceiling mounting
- Full OSD and Zoom / Focus control through on-board and UTC
- Signal distance up to 1600 feet\*
- Vandal / tamper resistant
- IP67 compliant, weather resistant
- 12VDC & 24VAC dual voltage operation
- 5 year warranty

### SPECIFICATIONS

Image Sensor.....	1/2.8" SONY Starvis 5MP Sensor
Minimum Illumination.....	0.00 lux (IR LED 'on')
Effective Pixels.....	2616 (H) x 1964 (V)
Total Pixels.....	2704 (H) x 2104 (V)
Scanning System.....	Progressive
S/N Ratio.....	More than 50dB
Video Output.....	1.0Vp-p / 75 Ohms
Electronic Shutter.....	Auto / Manual (1/30 – 1/30,000 sec.)
WDR.....	On (Low / Middle / High) / Off
Day / Night.....	Auto / Intensifier
Test Monitor Output.....	TVI out
Power.....	12VDC / 24VAC
Power Consumption.....	900mA max. (DC), 700mA max. (AC)
Operating Temperature.....	-40° F – 140° F
Unit Dimensions.....	9.64" (L) x 3.72" (Dia.)
Unit Weight.....	2 lbs (camera), 0.9 lbs (junction box)
Certifications.....	FCC, RoHS

### OSD MENU TREE

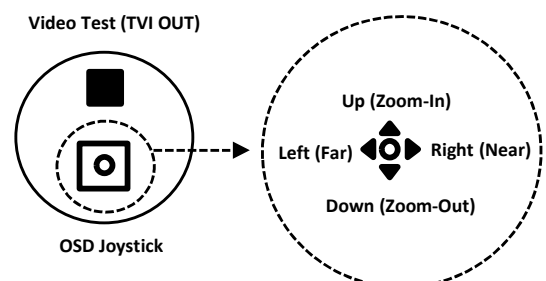
#### PRESET MODE

• OUTDOOR • LOW LIGHT • HALLWAY • LOBBY • ELEVATOR • INDOOR

#### MAIN SETUP

IRIS
MOTORIZED
EXPOSURE
• BRIGHTNESS • SHUTTER • INTENSIFY • AGC
BACKLIGHT
• WDR • BLC • HLC
DAY / NIGHT
• AUTO • INTENSIFIER
COLOR
• AWB • COLOR GAIN
SPECO DNR
• LOW • MIDDLE • HIGH
IMAGE
• SHARPNESS • GAMMA • MIRROR • FLIP • D-ZOOM
• ACE • DEFOG • SHADING • PRIVACY
MOTION
SYSTEM
• COMM • OUTPUT • IMAGE RANGE • COLOR SPACE
• COLOR BAR • LANGUAGE • CAMERA TITLE • RESET
EXIT

### OSD CONTROL



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### OSD MENU Details

IRIS : 'ALC' as a default value

**EXPOSURE** : adjusts exposure settings.

BRIGHTNESS : Adjusts image brightness. (0~20)

SHUTTER : Outdoor / Indoor / Deblur

INTENSIFY : Sets the desired multiple of the digital exposure length.

AGC(Auto Gain Control): Adjusts the AGC level. (0~10)

**BACKLIGHT** : Adjusts backlight options.

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

- Adjusts the WDR Weight (LOW/MIDDLE/HIGH)

BLC : Produces a clearer image of an object darkened by strong backlighting.

- H-POS : Adjusts the horizontal position(0~20)

- V-POS : Adjusts the Vertical position(0~20)

- H-SIZE : Adjusts the horizontal block size (0~20)

- V-SIZE : Adjusts the vertical block size (0~20)

HLC : Uses to contain extremely bright areas such as from car headlight, the light can be masked out much of the on-screen details.

**DAY / NIGHT** : Adjust Day / Night options.

AUTO : Day / Night is switching automatically

- ANTI-SAT. : Adjusts the Anti Saturation level (0~20)

- D > N THRES : Adjusts AGC THRES (0~20)

- N > D THRES : Adjusts AGC THRES (0~20)

- DELAY : Adjusts the changing delay time (LOW/MIDDLE/HIGH)

INTENSIFIER : Always Color mode

**COLOR** : Adjusts white balancing options.

AWB : it goes to optimized color level automatically.

COLOR GAIN : Sets the desired Color Gain value (0~20)

**SPECO DNR** : Uses to reduce the background noise in a low luminance environment with 2D + 3D filtering system.

**IMAGE** : Adjusts various image options.

SHARPNESS : Adjusts sharpness level. Increasing this value, the picture outline becomes stronger and clear. (0~10)

GAMMA : Sets the desired Gamma value. (0.45 ~ 0.75)

MIRROR : Change the video direction horizontally.

FLIP: Change the video direction perpendicularly.

D-ZOOM : Digital zoom up to x8 will be activated.

ACE (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.

SHADING : Sets the Lens Shading Compensation value. (ON/OFF)

PRIVACY : Used to hide regions of the image.

**MOTION** : Adjust motion detection settings.

DET WINDOW

SENSITIVITY : Sets the desired of "Motion" (0~20)

MOTION OSD

TEXT ALARM

SIGNAL OUT

**SYSTEM** : Adjusts various camera system options.

COMM.

- CAM ID : Sets the camera ID for the RS-485 (0~255)

- BAUD RATE : Sets the baud rate for the RS-485 (2400~115200).

OUTPUT

FRAME RATE 1440p 30

1080p 30

720p 30

1944p 12.5

1944p 20

2160p 15

CONFIRM YES

IMAGE RANGE

COLOR SPACE

COLOR BAR : Manufacturer's option

LANGUAGE : Sets the desired OSD language

CAM TITLE

RESET: Press with long to reset all settings to factory defaults.



### 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
SPECO TECHNOLOGIES IP CAMERAS.....	5 YEARS
SPECO PTZ .....	1 YEAR
SPECO TECHNOLOGIES MONITORS.....	1 YEAR
IR LEDS .....	90 DAYS

DVRS.....	5 YEARS
NVRS .....	5 YEARS
BALANCE OF	
SPECO TECHNOLOGIES LINE.....	1 YEAR

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

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.
3. 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.
4. SPECO TECHNOLOGIES DOES NOT AUTHORIZE ANY INTERNET OR MAIL ORDER PRODUCT SALES. IF A SPECO TECHNOLOGIES PRODUCT IS PURCHASED FROM AN UNAUTHORIZED DISTRIBUTOR OR OTHER SOURCE, INCLUDING RETAILERS, MAIL ORDER SELLERS AND ONLINE SELLERS, IT WILL NOT BE HONORED OR SERVICED UNDER THE EXISTING SPECO TECHNOLOGIES WARRANTY POLICY. ANY SPECO TECHNOLOGIES PRODUCT PURCHASED FROM THESE ONLINE MERCHANTS WILL VOID THE APPLICABLE WARRANTY AND IS INELIGIBLE FOR TECHNICAL SUPPORT. IF YOU HAVE QUESTIONS ABOUT A RESELLER, PLEASE CONTACT SPECO TECHNOLOGIES AT 1-800-645-5516 FOR A LIST OF UNAUTHORIZED DEALERS. VISIT: [www.specotech.com/unauthorized](http://www.specotech.com/unauthorized).

#### EXCLUSIONS

1. 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.
  3. THIS WARRANTY SHALL NOT APPLY TO REPAIRS OR REPLACEMENTS NECESSITATED BY ANY CAUSE BEYOND THE RESULT OF MANUFACTURE INCLUDING, BUT NOT LIMITED TO, ANY MALFUNCTION, DEFECTS OR FAILURE CAUSED BY OR RESULTING FROM UNAUTHORIZED SERVICE OR PARTS, IMPROPER MAINTENANCE, MODIFICATION OR REPAIR BY THE USER, ABUSE, MISUSE, NEGLIGENCE, ACCIDENT, FIRE, FLOOD, OR OTHER ACTS OF NATURE, INCORRECT LINE VOLTAGE, 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 IMAGE PICKUP DEVICES BY EXCESSIVE LIGHT.
- 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: \_\_\_\_\_

Speco Technologies  
200 New Highway  
Amityville, NY 11701  
[www.specotech.com](http://www.specotech.com)

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.

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We reserve the right to modify product design and specifications without notice and without incurring any obligation. Rev. 240315