

BU4 Series Entry-Level Integrated IR Bullet Camera

1/3-INCH CCD, 540 TVL WITH HIGH SENSITIVITY, RUGGED, VANDAL-RESISTANT

Product Features

- 540 TV Lines
- High Sensitivity (Zero Lux)
- Sony® 1/3-Inch Super HAD II CCD™
- NextChip Digital Signal Processor (DSP)
- 12 VDC Power with Internal Synchronization
- 2D Digital Noise Reduction (DNR)
- 15 Meters of IR Illumination Distance
- Weathertight Outdoor Operation (IP66)
- Rugged, Vandal-Resistant Design (IK10)
- Environmental Capability with a Wide Operating Temperature
- Low Power Consumption
- Cable Feedthrough Mount Included



The **BU4 Series** is Pelco's entry-level integrated IR bullet CCD camera. It uses a group of integrated infrared LEDs to deliver high quality pictures, even at night with zero illumination.

The **BU4 Series** is a high resolution digital camera with 540 TVL of resolution and a minimum of 0.2 lux illumination in color mode. With the included IR supplemental lighting, the **BU4 Series** operates under zero lux (monochrome mode). The camera uses automatic gain control (AGC) to optimize the video signal.

The **BU4 Series** includes automatic white balance (AWB) for difficult lighting situations and digital noise reduction (DNR) that minimizes environment noise levels to produce clear image quality.

The **BU4 Series** has a rugged, outdoor design and an impact resistance that meets the IK10 standard. The **BU4 Series** has a wide operating temperature (–30° to 50°C), which makes it an ideal solution for most rugged outdoor applications. The **BU4 Series** also meets weathertight IP66 standards.

Typical applications for the **BU4 Series** include outdoor boundary surveillance that has zero light at night and a need to supplement the scene with IR light.



TECHNICAL SPECIFICATIONS

MODELS

BU4-IRF4-4	High resolution IR bullet camera, 1/3-inch CCD, 12 VDC, 3.6 mm fixed lens, NTSC format
BU4-IRF4-4X	High resolution IR bullet camera, 1/3-inch CCD, 12 VDC, 3.6 mm fixed lens, PAL format

CAMERA/OPTICS

Imaging Sensor	Sony 1/3-Inch Super HAD CCD	
Signal Processing	NextChip DSP	
Effective Pixels		
NTSC	768 (H) x 494 (V), approx. 380k	
PAL	752 (H) x 582 (V), approx. 440k	
Scanning Area	5.6 (H) mm x 4.7 (V) mm (0.22 x 0.19 inch)	
Scanning System		
NTSC	525 lines, 2:1 interlace	
PAL	625 lines, 2:1 interlace	
Scanning Frequency	Horizontal	Vertical
NTSC	15.734 kHz	59.94 Hz
PAL	15.625 kHz	50.00 Hz
Synchronization	Internal	
Horizontal Resolution	540 TVL	
Minimum Illumination	f/2.0; 2,850°K; 30 IRE	
NTSC	Color (17 ms) 0.2 lux; Mono (with IR) 0.0 lux	
PAL	Color (20 ms) 0.2 lux; Mono (with IR) 0.0 lux	
IR Cut Filter	Dual band OLPF	
IR Illumination Distance	15 m	
IR Sensitivity	>40% at 850 nm, peak response	
Low-Light Technology	24 LEDs	
Electronic Shutter Range		
NTSC	Auto, 1/60 ~ 1/10,000 sec	
PAL	Auto, 1/50 ~ 1/10,000 sec	
Video Output	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	
Auto White Balance	2,500° to 9,500°K	
Signal-to-Noise Ratio	48 dB	
Lens	Fixed	
Backlight Compensation	Yes	
F-Number	f/2.0	
Focal Length	3.6 mm	
Focus Range	∞ to 1.2 m (3.9 ft)	
Angle of View		
Horizontal	72°	
Vertical	52°	
Adjusting Angle		
Panning Range	±180°	
Tilting Range	±90°	
Rotation Range	±360°	
Digital Noise Reduction	2D	

GENERAL

Construction	Die-cast aluminum
Unit Weight	0.65 kg (1.43 lb)
Shipping Weight	0.90 kg (1.98 lb)

ELECTRICAL

Power Requirement	
NTSC	12 VDC ±10%, 60 Hz
PAL	12 VDC ±10%, 50 Hz
Power Consumption	3 W (IR on, without heater); 8 W (IR on, with heater on)
Power Connector	2-pin terminal block with screw terminals
Video Connector	BNC

ENVIRONMENTAL

Operating Temperature	-30° to 50°C (-22° to 122°F)
Storage Temperature	-30° to 60°C (-22° to 140°F)
Operating Humidity	20% to 98%, noncondensing
Storage Humidity	20% to 98%, noncondensing
Impact Resistance	IK10

CERTIFICATIONS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- Meets IP66 standards

RECOMMENDED ACCESSORIES

BU-ADAPTER	Adapter plate for mounting BU Series cameras to a wall or a ceiling surface mounted conduit box (conduit box not included)
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 NOTE: VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.

