BU5 Series Integrated IR Bullet Camera 18 TO 32 VAC (REVISION A), 1/3-INCH CCD, 650 TVL, DAY/NIGHT, VANDAL-RESISTANT

Product Features

- 650 TV Lines
- High Sensitivity (Zero Lux with IR)
- Optical True Day/Night Function to Switch to Day or Night Mode, Depending on the Light Level
- Sony[®] 1/3-Inch EXview CCD II[™]
- Sony Digital Signal Processor (DSP), Effio-E™
- IR Compensation
- Autosensing Power; 18 to 32 VAC/12 VDC (Revision A)
- 2D Digital Noise Reduction (DNR)
- 25 Meters of IR Illumination Distance
- Weathertight Outdoor Operation (IP66)
- Rugged, Vandal-Resistant Design (IK10)
- Environmental Capability with a Wide Operating Temperature
- Privacy Zones

The **BU5 Series** is Pelco's general purpose integrated IR bullet CCD camera. It uses a group of integrated infrared LEDs to deliver high quality pictures, even at night with zero illumination. Its day/ night technology provides outstanding performance over a wide range of low-light conditions. The camera uses a removable infrared (IR) cut filter to switch between color and black-white modes as environmental lighting conditions change, and when the need for infrared sensitivity is realized. The **BU5 Series** also uses adaptive tone reproduction (ATR) technology to compensate for gradation of subjects to an optimum level and provides high performance video quality over a wide range of lighting conditions.

The **BU5 Series** is an ultra high resolution digital camera with 650 TVL of resolution and a minimum of 0.1 lux illumination in color mode. The **BU5 Series** is equipped with high performance IR compensation. The camera can be set manually to adjust IR illumination levels, enabling customers to change the levels of luminance and contrast according to the shooting environment. This function reduces the blooming effect and delivers clear images when objects get closer to the camera. With the included IR supplemental lighting, the **BU5 Series** operates under zero lux (monochrome mode). Camera features include autosensing power; 18 to 32 VAC or 12 VDC with internal synchronization (Revision A) and automatic gain control (AGC).



- Motion Detection
- Camera Titles
- Adaptive Tone Reproduction (ATR) to Compensate for Gradation of Subjects to an Optimum Level

The **BU5 Series** includes automatic white balance (AWB) for difficult lighting situations, digital noise reduction (DNR) that minimizes environment noise levels to produce clear image quality, and backlight compensation (BLC) that adjusts the picture to prevent objects from appearing dark due to a strong backlight. These fine-tuning features are easily configured using the convenient on-screen menus and can be accessed using the bottom panel button. The on-screen menu also allows you to select area masking, titling, pixel correction, and preset lighting profiles, features which are not typically found in a general purpose camera.

The **BU5 Series** has a rugged, outdoor design and an impact resistance that meets the IK10 standard. The **BU5 Series** has wide a operating temperature –30° to 50°C (–22° to 122°F), which makes it an ideal solution for most rugged outdoor applications. The **BU5 Series** also meets weathertight IP66 standards.

The **BU5 Series** has built-in analytical capabilities including privacy zones, motion detection, and camera titles that add to its functionality and make it suitable for most applications.

Typical applications for the **BU5 Series** includes medium-range outdoor boundary surveillance that has zero light at night and a need to supplement the scene with IR light. The true day/night functionality provides the best images in low-light and IR light applications by using a black-white mode function.





TECHNICAL SPECIFICATIONS

MODELS

BU5-IRV12-6

BU5-IRV12-6X

CAMERA/OPTICS

Imaging Sensor Signal Processing Dav/Night Operation Day Night Effective Pixels NTSC PAL Scanning Area Scanning System NTSC ΡΔΙ Scanning Frequency NTSC PAL Synchronization Horizontal Resolution Minimum Illumination NTSC

PAL IR Cut Filter Dynamic Range IR Illumination Distance IR Sensitivity Low-Light Technology Electronic Shutter Range NTSC PAL Video Output

Auto White Balance White Balance

Signal-to-Noise Ratio Automatic Gain Control Lens **Backlight Compensation** F-Number Focal Length Focus Range Angle of View Horizontal Vertical Adjusting Angle Panning Range **Tilting Range Rotation Range Digital Noise Reduction Privacy Zones** Motion Detection **Camera Titles**

Pelco by Schneider Electric

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±180°

±90° ±360°

2D

Yes

Yes

Yes (20 characters)

High resolution IR bullet camera, 1/3-inch CCD, true day/night, 18 to 32 VAC or 12 VDC (Revision A), NTSC format High resolution IR bullet camera, 1/3-inch CCD, true day/night, 18 to 32 VAC or 12 VDC (Revision A), PAL format

Sony 1/3-Inch EXview CCD II 960H Sony DSP, Effio-E[™]

IR cut filter BK-7 glass, same optical displacement as day mode

976 (H) x 494 (V), approx. 480K 976 (H) x 582 (V), approx. 570K 4.7 mm (H) x 3.5 mm (V) (0.19 x 0.14 inch) 525 lines, 2:1 interlace

625 lines, 2:1 interlace Horizontal Vertical 15.734 kHz 59.94 Hz 15.625 kHz 50.00 Hz Internal 650 TVI f/1.4; 2,850°K; 30 IRE Color (17 ms) 0.1 lux, Mono (with IR) 0.0 lux Color (20 ms) 0.1 lux, Mono (with IR) 0.0 lux Yes, D/N switch Gamma selectable (ATR) 25 m >40% at 850 nm, peak response 28 LEDs Auto/manual, 1/60 ~ 1/10,000 sec Auto/manual, 1/50 ~ 1/10,000 sec 1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector 2.500° to 9.500°K ATW/Manual/Push/Push lock/User1/User2/ Anti CR 48 dB (>52 dB by parameter adjustment)

Off/on up to 36 dB, 16 levels configurable 3.3 to 12 mm varifocal lens Yes f/1.4

3.3 to 12 mm ∞ to 0.5 m (1.6 ft) <u>3.3 mm (wide)</u> <u>78°</u> 57° <u>12 mm (telephoto)</u> <u>24°</u> 18°

GENERAL

Construction Unit Weight Shipping Weight

ELECTRICAL

Power Requirement* (Revision A) NTSC PAL Power Consumption

Power Connector

Video Connector BNC *Suggested installations (Revision A):

For outdoor environmental conditions from -30° to 50°C (-22° to 122°F) use only an AC power supply source (18 to 32 VAC). For indoor or outdoor applications with ambient temeratures of 0° to 50°C (32° to 122°F), use 12 VDC power, or an AC power supply source (18 to 32 VAC).

ENVIRONMENTAL

Operating Temperature-30°Storage Temperature-30°Operating/Storage Humidity20% t

 $\begin{array}{l} -30^\circ \text{ to } 50^\circ\text{C} \ (-22^\circ \text{ to } 122^\circ\text{F}) \\ -30^\circ \text{ to } 60^\circ\text{C} \ (-22^\circ \text{ to } 140^\circ\text{F}) \\ 20\% \text{ to } 98\%, \text{ noncondensing} \end{array}$

18 to 32 VAC/12 VDC +10% to -15%, 60 Hz

18 to 32 VAC/12 VDC +10% to -15%, 50 Hz

2-pin terminal block with screw terminals

7 W (IR on, without heater):

17.5 W (IR on, with heater on)

CERTIFICATIONS

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

RECOMMENDED ACCESSORIES

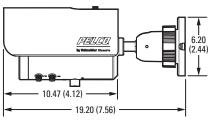
BU-ADAPTER Adapter plate for mounting BU Series cameras to a wall or a ceiling surface mounted conduit box (conduit box not included)

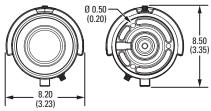
RECOMMENDED POWER SUPPLIES

TF9000 MCS Series WCS Series Power supply for one camera, 50 VA Multiple camera power supply, indoor Single/multiple camera power supply, outdoor



NOTE: VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.





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Die-cast aluminum 0.71 kg (1.56 lb) 1.11 kg (2.44 lb)