C10DN Series Day/Night, CCD Color Camera

1/3-INCH, ULTRA HIGH RESOLUTION, 540 TVL (NTSC/PAL)

Product Features

- · Compact Body Style
- · Day/Night with Automatic or Manual Control
- 1/3-Inch Format CCD Imager
- Digital Signal Processing
- 540 TV Lines
- On-Screen Menu Configuration with Side Joystick
- 4 Preset Application Profiles; 1 User-Definable Profile
- · Automatic White Balance, Automatic Gain Control, Electronic Shutter Control, and Backlight Compensation
- · Flickerless Mode
- Autosensing DC Drive Auto Iris
- CS Lens Mount
- Autosensing 24 VAC/12 VDC with Line Lock or Internal Synchronization
- · Long Distance Cable Compensation
- · Internal Top/Bottom Mount
- · Eclipser Function

The **C10DN Series** camera is Pelco's smallest, day/night camera. Its day/night technology provides outstanding performance over a wide range of lighting conditions. The camera uses a removable infrared (IR) cut filter to switch between color and black-white (B-W) modes as environmental lighting conditions change, and the need for infrared sensitivity is realized.

The C10DN Series is an ultra high resolution digital camera with 540 TVL of resolution and 0.3 lux minimum illumination in day mode and 0.07 lux in night mode. Camera features include autosensing power (24 VAC with internal line lock or 12 VDC with internal synchronization), automatic gain control (AGC), electronic shutter control (ESC), and flickerless mode. The C10DN Series also includes automatic white balance (AWB) for difficult lighting situations, and backlight compensation (BLC) that adjusts the picture to prevent objects from appearing dark due to a strong backlight. These finetuning features are easily set using the on-screen menus.



(LENS NOT SUPPLIED WITH CAMERA)



The C10DN Series camera has a standard CS mount and can be used with fixed, manual, or DC drive auto iris lenses. The auto iris is controlled through a standard 4-pin square connector that is included with all Pelco auto iris lenses. A back panel control allows you to control the **C10DN Series** with an external IR light during B-W mode operation.

The convenient on-screen menu allows you to select area masking, titling, pixel correction, and preset lighting profiles, features which are not typically found in a compact camera. Also, the C10DN Series allows on-screen setup of color/B-W modes.

The C10DN Series is quick and easy to install. The C10DN-6 and C10DN-6X are ideal for use with DF5, DF8A, EH100, EH3508, and EH2508 enclosures. The camera is also featured in Pelco's DomePak® and ImagePak® fixed camera dome/enclosure packages. The optional C10-UM wall/ceiling/rail mount kit offers easy installation in many nonenclosure applications, for all models (C10DN-6, C10DN-6X, and C10DN-7X).

TECHNICAL SPECIFICATIONS

MODELS

C10DN-6X

C10DN-6 1/3-inch high resolution day/night, CCD camera; 24 VAC or 12 VDC; NTSC format

> 1/3-inch high resolution day/night, CCD camera; 24 VAC or 12 VDC; PAL format

C10DN-7X 1/3-inch high resolution day/night, CCD

camera; 230 VAC, PAL format

GENERAL

Day/Night Operation Dav

Infrared (IR) cut filter BK-7 glass, same optical displacement as day Night

1/3-inch interline transfer CCD Imaging Device

Picture Elements

NTSC 768 (H) x 494 (V), approx. 380k PAI 752 (H) x 582 (V), approx. 440k Sensing Area 3/16 x 1/8-inch (4.7 x 3.5 mm)

Scanning System

NTSC 525 lines, 2:1 interlace 625 lines, 2:1 interlace PAI Synchronization System AC line lock/internal Horizontal Resolution 540 TV lines

Auto Iris Lens Type DC/video drive (autosensing)

Sensitivity

0.4 lux, f/1.2, 50 IRE, AGC on, 89% scene Color reflectance

B-W 0.08 lux, f/1.2, 50 IRE, AGC on, 89% scene

reflectance

Minimum Illumination

0.3 lux, f/1.2, 40 IRE, AGC on, 75% scene Color

reflectance

B-W 0.07 lux, f/1.2, 40 IRE, AGC on, 75% scene

reflectance >50 dB

Signal-to-Noise Ratio Vertical Phase Adjustable ±90° Automatic Gain Control Selectable Electronic Shutter Control Selectable

Electronic Shutter Range

NTSC 1/60 sec to 1/100000 sec PAL 1/50 sec to 1/100000 sec

Backlight Compensation Selectable **Eclipser Function** Selectable Auto White Balance Selectable Internal Synchronization Selectable Gamma Selectable Flickerless Mode Selectable

Signal Processing Digital signal processing (DSP)

Video Output 1 Vp-p, 75 ohms Auto White Balance Range 2,500° to 9,500°K **ELECTRICAL**

Power Requirements C10DN-6 24 VAC ±15%/12 VDC ±15%, 60 Hz C10DN-6X 24 VAC ±15%/12 VDC ±15%, 50 Hz

C10DN-7X 230 VAC ±15%, 50 Hz

Power Consumption 3 \//

Power Connector 2-pin terminal block with screw lock

Video Connector

Auto Iris Connector 4-pin connector (miniature square)

Controls 5-position button

MECHANICAL

Lens Mount CS mount

1/4-inch UNC-20 screw, top or bottom of Camera Mount

camera housing

ENVIRONMENTAL

Operating Temperature 14° to 122°F (-10° to 50°C) -40° to 140°F (-40° to 60°C) Storage Temperature 20% to 80%, noncondensing Operating Humidity Storage Humidity

20% to 90%, noncondensing

PHYSICAL

Dimensions (includes BNC) C10DN-6/C10DN-6X

2.95" L x 2.17" W x 1.97" H (7.5 x 5.5 x 5.0 cm)

5.50" L x 2.17" W x 1.97" H (13.97 x 5.5 x 5.0 cm)

Weight (without lens) C10DN-6/C10DN-6X

0.44 lb (0.20 kg) C10DN-7X 0.88 lb (0.40 kg)

Shipping Weight

C10DN-7X

C10DN-6/C10DN-6X 1 lb (0.45 kg) C10DN-7X 2 lb (0.90 kg)

CERTIFICATIONS

· CE, Class B

· FCC, Class B

UL/cUL Listed

RECOMMENDED MOUNTS

C10-UM C10 series universal wall/ceiling/rail mount kit

RECOMMENDED POWER SUPPLIES

TF2000 Power supply for one 24 VAC camera, 20 VA MCS Series Multiple 24 VAC camera power supply, indoor

Single/multiple 24 VAC camera power supply, WCS Series

outdoor

RECOMMENDED LENSES

13VA, VD, VDIR Series Varifocal lenses, 1/3-inch format

VA (manual iris); VD (auto iris, DD); VDIR (auto

iris, DD, infrared).

13ZD Series Motorized zoom lenses, 1/3-inch format

(auto iris, DD).

NOTE: For outdoor camera installations, a Pelco enclosure is recommended.

Pelco by Schneider Electric

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