

# C20-DN Series Analog Day/Night Camera

## 18 TO 32 VAC (REVISION A), 1/3-INCH CCD, 650 TVL, TRUE DAY/NIGHT (ICR)

### Product Features

- 650 TV Lines
- High Sensitivity
- True Day/Night with Automatic or Manual Control
- 1/3-Inch Format CCD Imager
- Digital Signal Processing
- CS Lens Mount
- Autosensing DC Drive Auto Iris
- Automatic/Manual White Balance Settings for Difficult Lighting Situations
- Selectable Automatic Gain Control
- Advanced Backlight Compensation
- Autosensing Power; 18 to 32 VAC/12 VDC with Internal Synchronization (Revision A)
- 2D Digital Noise Reduction (DNR)
- Privacy Zones
- Motion Detection

The **C20-DN Series** is Pelco's digital true day/night CCD 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 **C20-DN Series** is an ultra high resolution digital camera with 650 TVL of resolution and 0.13 lux minimum illumination. Camera features include autosensing power, 18 to 32 VAC or 12 VDC with internal synchronization (Revision A) and automatic gain control (AGC). The **C20-DN Series** also includes automatic white balance (AWB) for difficult lighting situations, digital noise reduction that minimizes environment noise level, and backlight compensation (BLC) that adjusts the picture to prevent objects from appearing dark due to a strong backlight.



**C20-DN**  
(LENS NOT SUPPLIED WITH CAMERA)

- Built-in Unshielded Twisted Pair (UTP) Output
- Camera Titles
- Adaptive Tone Reproduction (ATR) to Compensate for Gradation of Subjects to an Optimum Level

The **C20-DN Series** also features built-in analytical capabilities including privacy zones, motion detection, and camera titles. These features are easily set using the on-screen menus.

The convenient on-screen menus contain features that are not typically found in a general purpose camera including area masking, titling, pixel correction, and preset lighting profiles.

The **C20-DN Series** is quick and easy to install. 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.

The **C20-DN Series** has a standard CS lens mount and can be used with fixed, manual, or auto iris (DC drive) lenses. The iris is controlled through a standard 4-pin square connector that is included on all Pelco auto iris lenses.



by Schneider Electric

International Standards  
Organization Registered Firm;  
ISO 9001 Quality System



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# TECHNICAL SPECIFICATIONS

## MODELS

C20-DN-6X	1/3-inch CCD high resolution day/night camera, 18 to 32 VAC or 12 VDC, PAL format (Revision A)
C20-DN-7X	1/3-inch CCD high resolution day/night camera, 220 VAC, PAL format

## GENERAL

Imaging Device	Sony® 1/3-Inch EXview HAD CCD II™ 960H
Signal Processing	Sony new digital signal processor, Effio-E™
Day/Night Operation	
Day	Infrared (IR) cut filter
Night	BK-7 glass, same optical displacement as day mode
Picture Elements	976 (H) x 582 (V), approx. 570k
Sensing Area	8.33 mm (1/3 inch) 4.7 x 3.5 mm (3/16 x 1/8-inch)
Scanning System	625 lines, 2:1 interlace
Synchronization System	Internal
Horizontal Resolution	650 TV lines
Auto Iris Lens Type	DC drive
Sensitivity	
Color	0.13 lux, f/1.2, 30 IRE
Mono	0.05 lux, f/1.2, 30 IRE
Signal-to-Noise Ratio	48 dB (>52 dB by parameter adjustment)
Automatic Gain Control	On/off 35 dB
Backlight Compensation	Yes
White Balance	ATW/push lock/manual/anti-CR/user2/ user/push
Color Correction	With white balance
Gamma	Selectable (ATR)
Video Output	1 Vp-p, 75 ohms
Auto White Balance Range	2,500° to 9,500°K
Noise Reduction (DNR)	2D
Privacy Zones	Yes
Motion Detection	Yes
Camera Titles	Yes

## ELECTRICAL

Power Requirement*	
C20-DN-6X	18 to 32 VAC 50 Hz/12 VDC +10% to -15% (Revision A)
C20-DN-7X	220 VAC +10% to -15%, 50 Hz
Power Consumption	
C20-DN-6X	4 W
C20-DN-7X	5 W
Power Connector	2-pin terminal block with push lock, or line cord on 220 VAC models
Video Connector	BNC
Auto Iris Connector	4-pin connector (miniature square)

\*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 temperatures of 0° to 50°C (32° to 122°F), use 12 VDC power, or an AC power supply source (18 to 32 VAC).

## MECHANICAL

Lens Mount	CS mount
Camera Mount	1/4-inch UNC-20 screw, top or bottom of camera housing

## ENVIRONMENTAL

Operating Temperature	-10° to 50°C (14° to 122°F)
Storage Temperature	-20° to 60°C (-4° to 140°F)
Operating Humidity	20% to 90%, noncondensing
Storage Humidity	20% to 90%, noncondensing

## PHYSICAL

Dimensions (includes BNC)	108 x 60 x 55 mm (4.25" L x 2.36" W x 2.17" H)
Weight (without lens)	
C20-DN-6X	0.30 kg (0.66 lb)
C20-DN-7X	0.45 kg (0.99 lb)
Shipping Weight	
C20-DN-6X	0.55 kg (1.21 lb)
C20-DN-7X	0.60 kg (1.32 lb)

## CERTIFICATIONS

- CE, Class B
- FCC, Class B
- UL/cUL Listed

## RECOMMENDED MOUNTS

C10-UM	C10 series universal wall/ceiling/rail mount kit
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## RECOMMENDED POWER SUPPLIES

TF2000	Power supply for one camera, 20 VA
MCS Series	Multiple camera power supply, indoor
WCS Series	Single/multiple camera power supply, outdoor

## RECOMMENDED LENSES

13VA/13VD Series	Varifocal lenses, 1/3-inch format; 13VA (manual iris); 13VD (auto iris, DD)
13ZD Series	Motorized zoom lenses, 1/3-inch format (auto iris, DD)

### Pelco by Schneider Electric

3500 Pelco Way, Clovis, California 93612-5699 United States

**USA & Canada** Tel (800) 289-9100 Fax (800) 289-9150

**International** Tel +1 (559) 292-1981 Fax +1 (559) 348-1120

**www.pelco.com** [www.pelco.com/community](http://www.pelco.com/community)

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