C20-DW Series Analog Day/Night WDR Camera 1/3-INCH CCD, 650 TVL WITH HIGH SENSITIVITY, TRUE DAY/NIGHT (ICR), WDR

Product Features

- Wide Dynamic Range
- 650 TV Lines
- High Sensitivity
- 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 (24 VAC/12 VDC with Selectable AC Line Lock/Internal Synchronization)
- 3D Digital Noise Reduction (DNR)
- Privacy Zones
- Built-in Unshielded Twisted Pair (UTP) Output

The **C20-DW Series** is Pelco's full-featured digital day/night wide dynamic range (WDR) CCD camera. Its WDR technology provides 120 dB dynamic range and produces superior images over a range of lighting conditions, including extreme backlight conditions. Its day/night technology provides outstanding performance in low 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 as the need for infrared sensitivity is realized.

The **C20-DW Series** is an ultra high resolution digital camera with 650 TVL of resolution and 0.13 lux minimum illumination. Camera features include autosensing power (24 VAC or 12 VDC with AC line lock or internal synchronization) and automatic gain control (AGC). The **C20-DW Series** includes automatic white balance (AWB) for difficult lighting situations, digital noise reduction, and backlight compensation (BLC) that adjusts the picture to prevent objects from appearing dark due to a strong backlight. The **C20-DW Series** also uses slow electronic shutter technology to improve the illumination performance for low-light environments.

The **C20-DW Series** has built-in analytical capabilities including privacy zones, motion detection, and camera titles that add to its functionality. These fine-tuning features are easily set using the on-screen menus.



C20-DW (LENS NOT SUPPLIED WITH CAMERA)

- Motion Detection
- Camera Titles
- Adaptive Tone Reproduction (ATR) to Compensate for Gradation of Subjects to an Optimum Level
- Built-in Coaxitron[®], RS-485 Pelco D Protocol

The **C20-DW 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-DW 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.

On-screen configurable menus can be accessed locally using the rear panel button or remotely using any Pelco controller with Pelco D or Coaxitron[®] protocol. Use these menus to select a specific profile, to customize and save camera settings for the specific application, and trigger alarm out functions.

The **C20-DW Series** is equipped with configurable alarm in and alarm out functions for external devices such as IR lighting control, wiper operation, and local alerting upon alarm of an external device.

The **C20-DW Series** from Pelco is ideal for critical security applications requiring the best analog images in all types of lighting and system configurations.





TECHNICAL SPECIFICATIONS

MODELS

C20-DW-6

C20-DW-6X

C20-DW-7X

GENERAL

Imaging Device Signal Processing Dynamic Range Day/Night Operation Day Night **Picture Elements** NTSC PAL Sensing Area Scanning System NTSC PAL Synchronization System Horizontal Resolution Auto Iris Lens Type Electronic Shutter Range Manual Auto NTSC Auto PAL Sensitivity Color 500ms Mono 20ms, PAL; 17ms, NTSC 0.05 lux, f/1.2, 30 IRE 500ms Signal-to-Noise Ratio Automatic Gain Control **Backlight Compensation** White Balance Color Correction Gamma

1/3-inch CCD high resolution day/night WDR camera, 24 VAC or 12 VDC, NTSC format 1/3-inch CCD high resolution day/night WDR camera, 24 VAC or 12 VDC, PAL format 1/3-inch CCD high resolution day/night WDR camera, 220 VAC, PAL format

Sony[®] 1/3-inch SuperHAD CCD II[™] 960H Sony new digital signal processor, Effio-P™ 120 dB

Infrared (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 3/16 x 1/8-inch (4.7 x 3.5 mm)

525 lines, 2:1 interlace 625 lines, 2:1 interlace AC line lock/Internal 650TV lines DC drive

1/2 to 1/10,000 sec 1/2 to 1/10,000 sec 1/1.5 to 1/10,000 sec

20ms, PAL; 17ms, NTSC 0.13 lux, f/1.2, 30 IRE 0.03 lux, f/1.2, 30 IRE

> 0.00004 lux, f/1.2, 30 IRE 48 dB (>52 dB by parameter adjustment) Off/on up to 36 dB, 16 levels configurable Yes ATW/push lock/manual/anti-CR/user2/ user/push With white balance Selectable (ATR) 1 Vp-p, 75 ohms 2,500° to 9,500°K 3D Adaptive Yes, 15 sizable windows Yes, four areas sensitivity selectable Yes, up to 20 characters 255X Yes, (under 10Hz) Yes (defocusing, camera tamper) RS-485 and Coaxitron 1 1

ELECTRICAL

Power Requirement C20-DW-6 C20-DW-6X C20-DW-7X Power Consumption Power Connector

Video Connector Auto Iris Connector

MECHANICAL

Lens Mount Camera Mount

ENVIRONMENTAL

Operating Temperature Storage Temperature Operating Humidity Storage Humidity

PHYSICAL

Dimensions (includes BNC)

Weight (without lens) C20-DW-6/C20-DW-6X C20-DW-7X Shipping Weight C20-DW-6/C20-DW-6X C20-DW-7X

CERTIFICATIONS

RECOMMENDED MOUNTS

RECOMMENDED POWER SUPPLIES

mount kit

TF2000	Power supply for one 24 VAC camera, 20 VA
MCS Series	Multiple 24 VAC camera power supply, indoor
WCS Series	Single/multiple 24 VAC camera power supply, outdoor

C10 series universal wall/ceiling/rail

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

Video Output

Color Correction

Motion Detection

Image Stabilization

Remote Access

Alarm Input

Alarm Output

Scene Learning/Analytics

Privacy Zones

Camera Titles

Digital Zoom

Auto White Balance Range

Noise Reduction (DNR)

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108 x 60 x 55 mm (4.25" L x 2.36" W x 2.17" H)

12 VDC/24 VAC +10% to -15%, 60 Hz

12 VDC/24 VAC +10% to -15%, 50 Hz

2-pin terminal block with push lock, or line

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

220 VAC +10% to -15%, 50 Hz

4-pin connector (miniature square)

cord on 220 VAC models

45W

BNC

CS mount

camera housing

-10° to 55°C (14° to 131°F)

-20° to 60°C (-4° to 140°F)

20% to 90%, noncondensing

20% to 90%, noncondensing

0.30 kg (0.66 lb) 0.45 kg (0.99 lb)

0.55 kg (1.21 lb) 0.60 kg (1.32 lb)

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

C10-UM