

C20-CH Series Analog Color Camera

1/3-INCH, ULTRA HIGH RESOLUTION, 650 TVL (NTSC/PAL), DIGITAL DAY/NIGHT

Product Features

- 650 TV Lines
- 0.25 Lux Sensitivity
- 1/3-Inch Format CCD Imager
- Digital Signal Processing
- CS Lens Mount
- Autosensing DC Drive Auto Iris
- Digital Electronic Day/Night
- Automatic/Manual White Balance Settings for Difficult Lighting Situations
- Selectable Automatic Gain Control
- Advanced Backlight Compensation
- Autosensing Power (24 VAC/12 VDC with Internal Synchronization)
- 2D Digital Noise Reduction (DNR)
- Privacy Zones
- Built-in Unshielded Twisted Pair (UTP) Output

The **C20-CH Series** is Pelco's general purpose digital color CCD camera. It is designed for installations with fixed lighting conditions. Its full features insure that images are clear and crisp at all times under consistent light. The camera's size, combined with its numerous features, makes it the ideal camera for most applications.

The **C20-CH Series** is an ultra high resolution digital camera with 650 TVL of resolution and 0.25 lux minimum illumination. Camera features include autosensing power (24 VAC or 12 VDC with internal synchronization), and automatic gain control (AGC).

The **C20-CH Series** includes automatic white balance (AWB) for difficult lighting situations, digital noise reduction for clearer image quality, and backlight compensation (BLC) that adjusts the picture to prevent objects from appearing dark due to a strong backlight.

The **C20-CH 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.



C20-CH SERIES
(LENS NOT SUPPLIED WITH CAMERA)

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

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

The **C20-CH 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-CH 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



C3902 / NEW 2-9-12

TECHNICAL SPECIFICATIONS

MODELS

| | |
|-----------|--|
| C20-CH-6 | 1/3-inch CCD high resolution color box camera, 24 VAC or 12 VDC, NTSC format |
| C20-CH-6X | 1/3-inch CCD high resolution color box camera, 24 VAC or 12 VDC, PAL format |
| C20-CH-7X | 1/3-inch CCD high resolution color box 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™ |
| Picture Elements | |
| NTSC | 976 (H) x 494 (V), approx. 480k |
| PAL | 976 (H) x 582 (V), approx. 570k |
| Sensing Area | 3/16 x 1/8-inch (4.7 x 3.5 mm) |
| Scanning System | |
| NTSC | 525 lines, 2:1 interlace |
| PAL | 625 lines, 2:1 interlace |
| Synchronization System | Internal |
| Horizontal Resolution | 650 TV lines |
| Auto Iris Lens Type | DC drive |
| Sensitivity | 0.25 lux, f/1.2, 30 IRE |
| Electronic Day/Night Switch | |
| 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-CH-6 | 12 VDC/24 VAC +10% to -15%, 60 Hz |
| C20-CH-6X | 12 VDC/24 VAC +10% to -15%, 50 Hz |
| C20-CH-7X | 220 VAC +10% to -15%, 50 Hz |
| Power Consumption | |
| C20-CH-6/C20-CH-6X | 3.5 W |
| C20-CH-7X | 4 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) |

MECHANICAL

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

ENVIRONMENTAL

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|-----------------------|-----------------------------|
| Operating Temperature | -10° to 55°C (14° to 131°F) |
| Storage Temperature | -20° to 60°C (-4° to 140°F) |
| Operating Humidity | 20% to 90%, noncondensing |
| Storage Humidity | 20% to 90%, noncondensing |

PHYSICAL

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

CERTIFICATIONS

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

RECOMMENDED MOUNTS

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

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|------------|---|
| 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 |

RECOMMENDED LENSES

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|-------------------|---|
| 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). |

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