# **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.





### **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

1/3-inch CCD high resolution color box

camera, 220 VAC, PAL format

#### **GENERAL**

C20-CH-7X

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

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**

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)

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**

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
WCS Series Single/multiple 24 VAC 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)