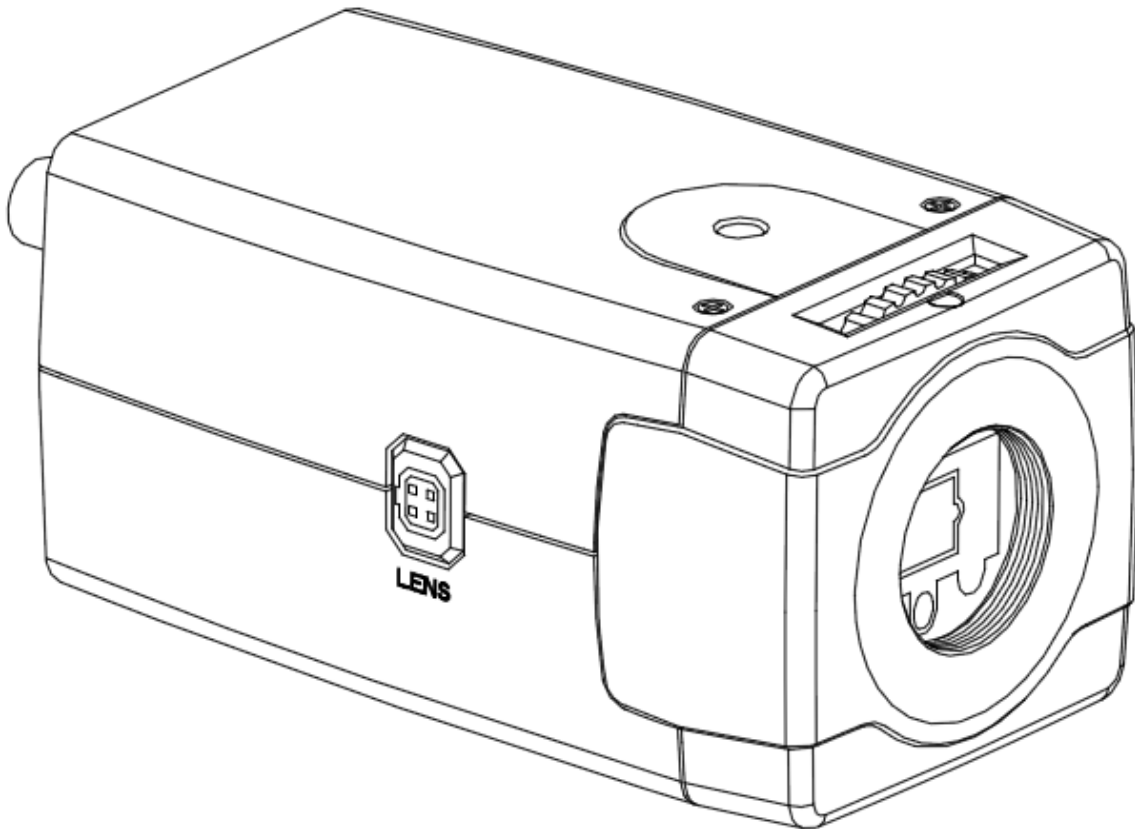


PELCO

by Schneider Electric

C20-DW Series 650 TV lines

High Resolution Camera
Installation/Operation Manual
18 to 32 VAC (Revision A)



C3980M-A-EN (04/14)

Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

C20-DW series model names:

C20-DW-6(X)
C20-DW-7X

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Important Safety Instructions

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Only use attachments/accessories specified by the manufacturer.
10. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
12. Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases shall be placed on the apparatus.
13. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
14. Installation should be done only by qualified personnel and conform to all local codes.
15. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
16. Use only installation methods and materials capable of supporting four times the maximum specified load.

Important Safety Instructions

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Only use replacement parts recommended by Pelco.

The product and/or manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

CAUTION: RISK OF ELECTRIC SHOCK. DO NOT OPEN.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



WARNING: This product is sensitive to Electrostatic Discharge (ESD). To avoid ESD damage to this product, use ESD safe practices during installation. Before touching, adjusting or handling this product, correctly attach an ESD wrist strap to your wrist and appropriately discharge your body and tools. For more information about ESD control and safe handling practices of electronics, please refer to ANSI/ESD S20.20-1999 or contact the Electrostatic Discharge Association (www.esda.org).

Important Notices

REGULATORY NOTICES [FCC CLASS B]

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Warranty

For information about Pelco's product warranty and thereto related information, refer to www.pelco.com/warranty.

Operating Notes:

For C20-DW (Revision A); released in 2014:

- For dual voltage model: Connect to 12VDC or 18 to 32VAC power adapter.
- For high voltage model: Connect to 220VAC power source.

For older C20 -DW (prior to Revision A):

- For dual voltage model: Connect to 12VDC or 24VAC power adapter.
- For high voltage model: Connect to 220VAC power source.

Operating Conditions

- Avoid viewing very bright objects (example, light fixtures) for extended periods.
- Avoid operating or storing the unit in the following locations:
 - Extremely humid, dusty, hot/cold environments
 - Close to sources of powerful radio or TV transmitters
 - Close to fluorescent lamps or objects reflecting light
 - Under unstable light sources (may cause flickering)

Suggested Installation:

Where the operating temperature is outside the recommended range of 14°F to 122°F (-10°C to +50°)

1. Introduction

The box camera is ideal for indoor installation in commercial environment.

Before You Begin:

Please read this guide carefully before you install the box camera. Keep this guide for future reference.

Package Contents:

Check that the items received match those listed on the order form and packing slip. The dome camera packing box includes:

- One installation/operation manual
- One fully assembled camera
- One Lens mounting cap
- One Hexagonal and Minus wrench
- One C adapter ring
- One Auto Iris Lens connector

If any parts are missing or damaged, contact the dealer you purchased the camera from.

Optional Accessories:

- C10-UM Mount

We recommend mounting the camera with the C10-UM mount, a C10 series universal wall/ceiling/rail mounting kit.

2. Part Names and Locations

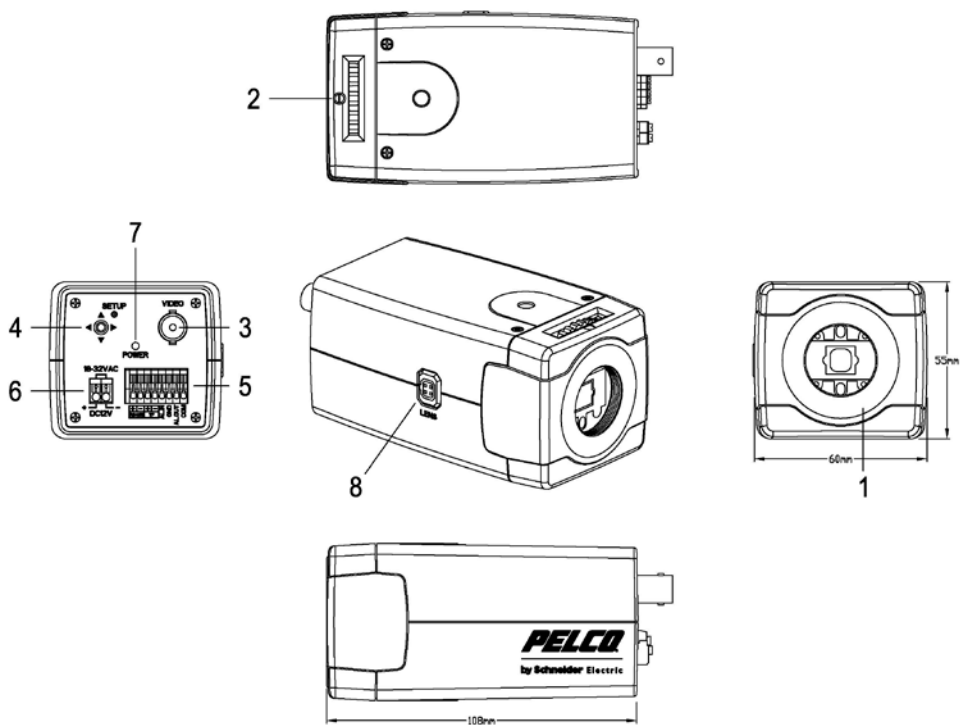


Figure 2-1 C20-DW-6/C20-DW-6X

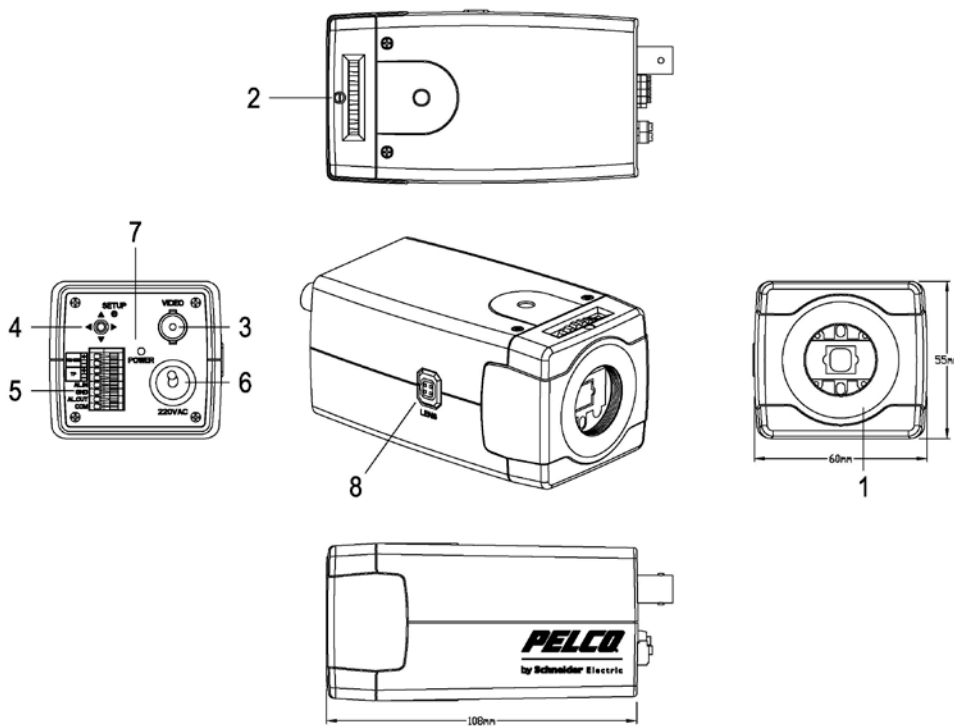


Figure 2-2 C20-DW-7X

Part Names and Locations

(1) Lens mount

For the installation of CS Mount lenses only, use no adapter.

Before mounting the lens, you can screw the C adapter onto the lens, and then screw the lens onto the lens mount.

(2) Back Focus adjustment

A. Back Focus Screw:

Use a Minus wrench to loosen this screw before you use the Focus Adjustment. To maintain the correct focus afterwards, ensure that it is tightened.

B. Focus Adjustment:

Adjust this dial to obtain correct back-focus while using a CS mount lens.

(3) Video Output Terminal

BNC: Used to give out the video signal. Connected to the video input terminal of a monitor, switcher, etc. (to be terminated with 75 ohm impedance)

(4) OSD joystick control

Press the OSD joystick control straight down:

- For two seconds to enter the Main menu.
- To enter a screen or to select a submenu option. A selected menu item blinks.

(5) I/O

Connect your external devices to the corresponding I/O terminal block. The pins of the I/O terminal block controls the following signals:

TP+/-: UTP (Unshielded Twisted Pair)

ALIN/GND: Alarm input Ground (electrically) in electrical circuits.

ALOUT/COM: Alarm output Ground (electrically) in electrical circuits.

(6) Power Connector

Connect to the respective power source.

- For dual-voltage model: Connect to DC12V or AC 18-32V power adapter.
- For high-voltage model: Connect to AC 220V power source.

WARNING:

This apparatus must be GROUNDED.

(7) Power Indicator

The power indicator light is lit (Red), which means the power is connected.

(8) Auto Iris lens connector

Supplies power and control signals to an auto-iris lens.

OSD Setup Menu

3. OSD Menu

Set up menu	Default set	Menu
Lens	AUTO	Auto / Manual
Shutter / AGC	Option	Auto (High Luminance, Low Luminance)
White / Bal	ATW	ATW, PUSH, USER1, USER2, Anti CR , MANUAL, PUSH LOCK
HLC / BLC	Option	OFF / BLC / HLC
Pic Adjust	Option	Flip, Contrast, Sharpness, Chroma, Blemish Det, Negative
WDR	Full WDR	OFF / Full WDR / Light WDR (Contrast)
Motion Det	OFF	OFF / ON (Detect Sense, Area Sel, Mode, Top, Bottom, Left, Right)
Privacy	Option	OFF / ON (Area Sel, Mode, Position, Color, Transp, Mosaic)
Day / Night	AUTO	Auto / Color / Mono
NR	Option	Level
Camera ID	OFF	OFF / ON
SYNC	INT	INT / LL
Language	English	ENGLISH / SPANISH / RUSSIAN / GERMAN / FRENCH / JAPANESE or PORTUGUESE
Camera Reset	Option	
Ezoom	Option	Mag / Pan / Tilt
DIS	OFF	OFF/ON
Focus ADJ	Option	Focus Val
Alarm	Option	Defocus Txt, Alarm Out, Trigger, Normal Out, Alarm In, Trigger, Alarm Txt
Remote	Option	PROTOCOL, ADDRESS, BAUD RATE
Back		
Exit		
Save All		

4. OSD Menu Settings

Entering OSD Menu

Push in on the joystick to open the Main menu. Use the UP/DOWN functions of the joystick to move the cursor to the item you want to modify. A selected menu item will be highlighted.



Press UP: Press to move the cursor up.

Press Down: Press to move the cursor down.

Enter button: Push in on the joystick to enter the selected item or change the settings of the selected item.

Press Right: Press to change the settings of the selected item.

Press Left: Press to change the settings of the selected item.

NOTE: When an item is selected, it will be highlighted.

After all the settings have been satisfied, move the cursor to the "Save All" item and press the enter button. Then move the cursor to the "EXIT" item and press the enter button to exit OSD setup menu.

You can also restore the settings to factory default by moving the cursor to the "CAMERA RESET" item and then pressing the Enter button. Then move the cursor to the "Save All" item and press the Enter button.

Menu Settings

Use the OSD menu to set up the camera for optimum performance.

SETUP MENU 1/3	
LENS	AUTO
SHUTTER/AGC	
WHITE BAL	ATW
HLC/BLC	
PICT ADJUST	
WDR	FULL WDR
MOTION DET	OFF
NEXT	
EXIT	SAVE ALL

SETUP MENU 2/3	
PRIVACY	
DAY/NIGHT	AUTO
NR	
CAMERA ID	OFF
SYNC	INT
LANGUAGE	ENGLISH
CAMERA RESET	
BACK	NEXT
EXIT	SAVE ALL

SETUP MENU 3/3	
EZOOM	
DIS	OFF
FOCUS ADJ	
ALARM	
REMOTE	
BACK	
EXIT	SAVE ALL

NOTE: All the value or configurations shown in the following figures are the camera's default settings.

4.1 LENS

The LENS settings allow you to configure Lens and speed. Options are AUTO (Auto Iris lens) and MANUAL. The default setting is AUTO.

In the AUTO submenu, you can set the MODE as AUTO. Then select SPEED to adjust the DC Iris Lens convergence speed from 000~255.

If the speed value is lower, the IRIS will be slower. If speed value is higher, the IRIS will be faster.

AUTO IRIS	
TYPE	DC
MODE	AUTO
SPEED	048
RETURN	

Menu Settings

4.2 SHUTTER/AGC

You can set the SHUTTER/AGC as AUTO or MANUAL. The default setting is AUTO.

You can select HIGH LUMINANCE MODE OR LOW LUMINANCE MODE and adjust the BRIGHTNESS.

The brightness level ranges from 0~255. The IRIS level will be controlled by camera brightness.

SUGGESTED USE:

DC Lens: When using DC lens, we recommend you set SHUTTER/AGC to AUTO mode. Enter the AUTO submenu as shown in the figure. Move the joystick control UP or DOWN to adjust HIGH LUMINANCE MODE to AUTO IRIS.

Manual Lens: When using MANUAL lens, we recommend you set SHUTTER/AGC to AUTO mode. Enter the AUTO submenu as shown in the figure below. Move the joystick control UP or DOWN to adjust HIGH LUMINANCE MODE and the LOW LUMINANCE setting.

AUTO SETUP	
HIGH LUMINANCE MODE	AUTO IRIS
BRIGHTNESS	034
LOW LUMINANCE MODE	AGC
BRIGHTNESS	-
RETURN	

The shutter speed is variable from 1/50(1/60) sec to the 1/10Ksec and the AGC is selectable depending on your environment condition.

AUTO IRIS and SHUT+AUTO IRIS difference

- Use the DC lens and setting to AUTO IRIS mode for normal condition application environments. The IRIS level will be controlled by camera brightness.
- Use the DC lens and setting to SHUT+AUTO IRIS mode for high light application environments. The exposure will be controlled by AES or the DC Iris. The iris level will be controlled by the camera brightness.

In HIGH LUMINANCE MODE, the submenu is shown below. When the high luminance mode is on, the shut cannot be set.

HIGH LUMINANCE SETUP	
SHUT	-
RETURN	

Enter the LOW LUMINANCE MODE submenu as shown in the following figure. LOW LUMINANCE could be set as AGC, SLOW, AGC→SLOW, AGC→SLOW→AGC, and OFF. There are 10 levels for selection. Depending on your environment condition, the slow shut could be selected as OFF, x2, x4, x8, x16, x32, x64, x128, x256; the default slow shut is x4.

LOW LUMINANCE SETUP	
AGC	010
SLOW SHUT	x4
RETURN	

Menu Settings

Note: These are the menu settings for Lens and Shutter/AGC.

- When the camera first starts up the menu setting for Lens=Auto (Mode=Auto) and the settings for Shutter/AGC= High Luminance=Auto Iris
- When you change Lens=Manual then the default settings for Shutter/AGC= High Luminance=Shut

4.3 WHITE BAL

WHITE BALANCE controls color on the screen. Options include ATW (Auto White Balance), PUSH, USER1, USER2, Anti CR (Anti Color Rolling Suppression), MANUAL or PUSH LOCK mode. The default is ATW. The color temperature range is 2500°K ~ 9500°K.

Enter the **ATW** submenu as shown in the figure below. Select ATW when the scene illumination varies between indoor scenes and outdoor scene lighting. The SPEED and DELAY CNT have 000~255 levels to select respectively. You can set ATW FRAME as x0.5, 1.0, 1.5, 2.0 or MAX.

In **Environment** submenu, you can choose the standard, indoor or outdoor according to your viewing environment.

ATW SETUP	
SPEED	016
DELAY CNT	016
ATW FRAME	x1.0
ENVIRONMENT	STANDARD
RETURN	

Note: When setting different value of ATW FRAME and application environment, the color temperature range of white balance will be changed. The color temperature range of x0.5 of ATW FRAME will be smaller than x2.0.

If you select USER1 or USER2 mode as shown in the following figures, you can adjust B-GAIN and R-GAIN value from 000 to 255.

MANUAL WB	
LEVEL UP	PUSH ENTER
LEVEL DOWN	PUSH ENTER
PRESET	
RETURN	

If you select USER1 or USER2 mode as shown in the following figures, you can adjust the B-GAIN and R-GAIN value from 000 to 255..

USER1 WB		USER2 WB	
B-GAIN	029	B-GAIN	045
R-GAIN	050	R-GAIN	038
RETURN		RETURN	

If you select PUSH mode in the appropriate position, the whole area will perform white balance.

If you select PUSH LOCK mode in the appropriate position, WHITE BALANCE will perform once.

Menu Settings

If you select Anti CR mode in the appropriate position, the whole area will effectively restrain color cast.

4.4 HLC/BLC

Set the BLC (Backlight compensation) function and the HLC (Highlight compensation) function. BLC and HLC Compensation are the functions that achieve the brightness of a selected area to an optimum image level. Due to the intense light coming from the back of objects in the area expected to view, the auto iris lens tends to close and areas you want to see become dark and invisible.

Available options include OFF, ON or AUTO mode. The default is OFF.

If HLC is selected, HLC is activated automatically when the camera detects high-luminance. When you select ON, the function controls the light level to overcome severe backlighting conditions. The clip level ranges from 000 to 255 and the scale has 15 levels.

HLC/BLC	
HLC	OFF
CLIP LEVEL	000
SCALE	010
BLC	-
RETURN	

4.5 PICTURE ADJUST

PICTURE ADJUST allows you to adjust picture settings for the optimal image. In the PICT ADJUST submenu, you can adjust picture Flip, Contrast, Sharpness, Chroma, Blemish detection, or Negative. The options: OFF, V-FLIP, H-FLIP, HV-FLIP are selectable in Flip line.

In the BLEMISH DET submenu, you can set the blemish compensation function. Press <SET> and waits to be confirmed. After that, the white blemish will be removed, then go back to the optimal image.

Contrast could be selected from 000 to 063, Sharpness is 000~015, and Chroma is 000~008

PICT ADJUST	
FLIP	OFF
CONTRAST	038
SHARPNESS	008
CHROMA	002
BLEMISH DET	SET
NEGATIVE	OFF
RETURN	

Menu Settings

4.6 WDR

Set the WDR (Wide Dynamic Range) function. The Wide Dynamic Range (WDR) function is intended to provide clear images even under back light circumstances where intensity of illumination can vary excessively.

The default setting is FULL WDR; it also has options of OFF and LIGHT WDR. In the WDR SETUP submenu, you can set CONTRAST as MID, MIDTHIGH, HIGH, LOW or MIDLOW to optimize the image. The submenu of Light WDR is same as the WDR SETUP submenu.

WDR SETUP	
CONTRAST	MID
RETURN	

4.7 MOTION DET

MOTION DET allows moving objects on the screen to be detected. The default is OFF. If you select ON, you will enter the MOTION DET submenu. You can set 4 motion areas to detect moving objects and adjust the motion detection sensitivity. The value of sensitivity is from 000 to 127.

MONITOR AREA	
DETECT SENSE	111
AREA SEL	1/4
MODE	ON
TOP	002
BOTTOM	003
LEFT	004
RIGHT	005
RETURN	

4.8 PRIVACY

PRIVACY function masks up to 15 privacy areas on the screen from video monitoring. The default setting is OFF. If you select ON, you will enter the PRIVACY submenu. You can configure up to 15 privacy areas and set color and transparency of the privacy zones. In addition, you can enable the MOSAIC function for the privacy zone.

PRIVACY	
AREA SEL	1/15
MODE	OFF
POSITION	-
COLOR	-
TRANSP	-
MOSAIC	-
RETURN	

Note: When TRANSP is 1.00, Mosaic function is not available.

Menu Settings

4.9 DAY/NIGHT

Set the DAY/NIGHT function. The default setting is AUTO. Move the joystick control LEFT or RIGHT to select the AUTO, COLOR, MONO mode. Enter the AUTO submenu as shown in the figure below. Move the joystick control UP or DOWN to turn BURST ON/OFF and set the time before the camera switches to DAY-> NIGHT mode or NIGHT->DAY mode. The Delay CNT has a range from 000 to 255 and both two switch modes are 20 levels selectable.

DAY/NIGHT SETUP	
BURST	OFF
DELAY CNT	015
DAY→NIGHT	008
NIGHT→ DAY	012
RETURN	

When select Day->NIGHT level to set up switchover point of brightness from COLOR mode to MONO mode under different Lux levels.

When select NIGHT->DAY level to set up switchover point of brightness from MONO mode to COLOR mode under different Lux levels.

If selected COLOR mode, you can force the camera to stay in DAY (COLOR) mode.

If selected MONO mode, you can force the camera to stay in MONO (NIGHT) mode.

4.10 3D NR

NR allows you to configure the DNR (Digital Noise Reduction) settings to reduce noise on the screen. In the NR submenu, you can adjust the NR LEVEL. When you enable the NR MODE, you can choose LOW, MIDLOW, MID, MIDTHIGH, HIGH LEVEL depending on your environment condition.

NR SETUP	
LEVEL	OFF
RETURN	

4.11 CAMERA ID

CAMERA ID displays ON or OFF. The default setting is OFF. You can set the ON mode to add a camera title up to 26 characters on 1 line at the top of monitor screen.

4.12 SYNC

Set the vertical sync mode for INT or LL mode. Move the joystick control LEFT or RIGHT to select the INT or LL mode. The default setting is INT. The LL option is only available with AC power.

Use line synchronization to eliminate the vertical roll that occurs when multiple cameras are connected to the same switching device. Line synchronization locks each camera to the same frame rate.

Menu Settings

4.13 LANGUAGE

OSD supports 6 available languages. The default setting is English. Options include ENGLISH / SPANISH / RUSSIAN / GERMAN / FRENCH / JAPANESE or PORTUGUESE.

4.14 CAMERA RESET

Move to the CAMERA RESET mode then Press the ENTER key to recall factory settings.

4.15 EZOOM

Enter the EZOOM SETUP submenu as shown in the following figure. Move the joystick control LEFT or RIGHT to select PAN /TILT value for zoom in or zoom out the image. PAN range is 000~1023, TILT range is 000~5110

EZOOM SETUP	
MAG	000
PAN	512
TILT	256
RETURN	

4.16 DIS

Set DIS (DISPLAY) function. The default setting is OFF. When choose DIS on, EZOOM could not be set.

4.17 FOCUS ADJ

You can adjust focus of the lens. In the video picture, the focus value will change automatically.

ADJUST FOCUD OF THE LENS	
FOCUS VAL	2121
RETURN	

4.18 ALARM

In this function line, you can set a series of general parameters of ALARM. Press joystick control to enter ALARM SETUP submenu shown as figure.

ALARM SETUP	
DEFOCUS TXT	
ALARM OUT	
TRIGGER	AUX
NORMAL OUT	OPEN
ALARM IN	
TRIGGER	SCREEN INDICAT
ALARM TXT	OFF
RETURN	

Menu Settings

For Submenu DEFOCUS TXT

Choose and press the joystick control to enter DEFOCUS TXT SETUP submenu as shown in figure below. The DEFOCUS TXT can be set as Off/ON, DEFOCUS LEVEL is 000~007. Use this feature when your application requires screen notification of a camera tamper. If this mode is selected, the Alarm Out will activate when defocusing occurs.

DEFOCUS SETUP	
DEFOCUS TXT	OFF
DEFOCUS LEV	003
RETURN	

For Submenu ALARM OUT

You can configure the ALARM OUT TRIGGER as AUX or MOTION DET. Choose AUX when your application requires that the Coaxitron® or D protocol remote control will be used to activate the Alarm Out. Choose MOTION DET when your application requires that when motion is sensed the Alarm Out is activated. Only one type of Alarm Out can be specified.

Note: When set to AUX, the Alarm Out function will operate as follows from Coaxitron® or D protocol remote control:

- AUX 1: Activates Alarm Out
- AUX 2: Activates Alarm Out for 2 seconds and returns to deactivated state
- AUX 3: Deactivates Alarm Out

For Submenu NORMAL OUT

The default setting is Relay Open. The option can be set to Relay Closed. Configure this setting to match your attached accessory logic.

For Submenu ALARM IN

You can configure ALARM IN TRIGGER as SCREEN INDICAT or DAY/NIGHT. Choose SCREEN INDICAT when your application requires that when an Alarm In is sensed the camera is to display ALARM TXT. Choose DAY/NIGHT when you application requires that you set the camera to BW mode manually via an Alarm In. This is typically used with an external IR light accessory that will control the cameras BW or Color mode. Only one type of Alarm In can be specified.

For Submenu ALARM TXT

Choose On when your application requires that text is to be put to the camera screen. Select the text in this submenu. Text will go to the screen in either Alarm In mode if selected On.

ALARM IN TXT SETUP	
ALARM	
ABCDEFGHIJKLMNOPQRSTUVWXYZ T U V	
WXYZ01234567 8 9 - !"# \$ % & ' () _ ` , ¥ ; : < = > ? @ \ ^ * ↑ ↓ ← →	
← → ↑ ↓ CLR	POS
RETURN	

Menu Settings

4.19 REMOTE

The camera supports PELCO D protocol. You can view a camera by remote access connectivity. The ADDRESS is range from 001 to 255; BAUD RATE could be set as 4800, 9600, 1200 or 2400 bps.

Built in support for PELCO Coaxitron[®]. A single video cable connection is used to transmit a video signal

REMOTE SETUP	
PROTOCOL	PELCO D
ADDRESS	001
BAUD RATE	4800
RETURN	

4.20 SAVE ALL

Save all settings and exit.

Specification

5. Specification

Camera System Type	C20-DW-6	C20-DW-6X	C20-DW-7X
Format	NTSC	PAL	
Optical System			
Imager Size	1/3"		
IR Cut Filter	Yes - D/N Switch (ICR)		
IR Sensitivity	850nm >40% Peak Response		
Low Light Technology	Slow shutter support: 2X-128X		
Electric			
Sync System	Internal and AC line lock		
Lens Mount	CS		
Lens Drive	DC		
Digital Zoom	Yes-255X		
Horizontal Resolution	650TVL		
Sensitivity	f/1.2; 2,850°K; 30IRE Color (17 ms) 0.13 Lux Color (500 ms) 0.03 Lux Mono (17 ms) 0.05 Lux Mono (500 ms) 0.00004 Lux	f/1.2; 2,850°K; 30IRE Color (20 ms) 0.13 Lux Color (500 ms) 0.03 Lux Mono (20 ms) 0.05 Lux Mono (500 ms) 0.00004 Lux	
S/N Ratio	v (default 48dB, >52dB by parameter adjustment)		
AGC	Off/On up to 36dB 16 levels programmable		
Shutter	Auto: 1/60~1/100,000 Manual: 1/60~10,000 Slow shutter support: 2X-128X	Auto: 1/50~1/100,000 Manual: 1/50~10,000 Slow shutter support: 2X-128X	
Easy Back Focus Adjustment	Yes		
Color Correction	Adaptive		
White Balance	ATW/Push Lock/Manual/Anti CR/User2/User/Push		
BLC	Area Setting		
WDR	120dB Minimum - True Black - WDR (double scan)		
Noise Reduction-DNR	Yes - 3D		
Motion Detection	Yes - Four (4) areas, sensitivity selectable		
Privacy Zones	Yes - 15 sizable windows		
Image Stabilization	Yes (under 10Hz)		
Image Reversal/Pos-Neg	Yes		
Camera Titles	Yes(20 Character)		
Scene Learning/Analytics	Yes -(Defocusing)		
Remote Access	RS485 and Coaxitron		
Alarm Inputs	1		
Outputs	1 NO/NC		
Connection/Termination	Terminal Strip - Removable		
Set Up/OSD Input Device	Input Buttons/5 Way Rocker		
Multi Language	English, Russian, German, French, Spanish, Japanese	English, Russian, German, French, Spanish, Portuguese	
UTP	Yes		
User profiles	Yes		
Power supply			
Power	18 to 32 VAC 50/60 Hz/12 VDC +10% to -15% (Revision A)		220VAC, +10/-15%

Specification

Power consumption (Max)	4.5W	5.5W
Environment		
Operating Temperature Range	14°F (-10°C) Minimum, 134°F (55°C) Maximum with an absolute short term time - 60°C specification	
Operating humidity	20~90% non-condensing	
Mechanism		
Construction	Diecast	
Dimension (L W H)	60mm X55mm X108mm	
Weight (unit)	300g	450g
Power LED	Red-Rear Panel	

Troubleshooting Information

Pelco Troubleshooting Contact Information

If the instructions provided fail to solve your problem, contact Pelco Product Support at 1-800-289-9100 (USA and Canada) or +1-559-292-1981 (international) for assistance. Be sure to have the serial number available when calling.

Do not try to repair the unit yourself. Leave maintenance and repairs to qualified technical personnel only.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

REVISION HISTORY

Manual #	Date	Comments
C3906M	02/14	Original Version
C3980M-A	04/14	Revision A

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