



# **Installation/Operation**

## **PMCS15A, PMCS17A, and PMCS19A Super-High Resolution Color Monitors**

**C1991M-C (9/04)**

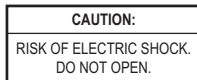
## IMPORTANT SAFETY INSTRUCTIONS

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. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the points where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. 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.
13. 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.
14. 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.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Installation should be done only by qualified personnel and conform to all local codes.
17. 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.
18. Use only installation methods and materials capable of supporting four times the maximum specified load.
19. Only use replacement parts recommended by Pelco.
20. A CCC-approved power cord must be used to power this equipment when used in China.

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.



## REGULATORY NOTICES

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.

## DESCRIPTION

The PMCS15A, PMCS17A, and PMCS19A are super-high resolution color monitors. All monitors have computer-grade picture tubes. The PMCS15A and PMCS17A produce horizontal resolution of 700 TV lines and PMCS19A produces 800 TV lines. Standard high resolution monitors produce only about 350 TV lines.

The monitors automatically detect the power supply input (90-260 VAC, 50/60 Hz).

## Models

PMCS15A	Super-high resolution color monitor, 15-inch (38.10 cm)
PMCS17A	Super-high resolution color monitor, 17-inch (43.18 cm)
PMCS19A	Super-high resolution color monitor, 19-inch (48.26 cm)

# INSTALLATION

The monitor may be placed on any flat surface (desk or table) or rack-mounted. To rack-mount the monitor follow the instructions supplied with the rack mount kit.

## Video and Power Connections

1. Video Cable Connection (Refer to Table A for video coaxial cable requirements.)
  - a. Connect the video cable to the BNC video input labeled V1 IN on the back panel of the monitor. If the installation requires a second video input, connect a video cable to the BNC video input labeled V2 IN.
  - b. Looping Operation Only - Connect a video cable to the BNC connector labeled V1 OUT. If the installation requires a second video output, connect a video cable to the BNC video output labeled V2 OUT. Refer to Figures 2 and 3.
2. Impedance Switch Setting
  - a. Terminating Operation Only - Set the termination switch to 75Ω position.
  - b. Looping Operation Only - Set the impedance switch to the V1-HI and V2-HI positions. Refer to Figures 2 and 3.
3. Plug the power cord (provided) into the AC INLET connection on the back panel. Plug the other end of the cord into a power receptacle.

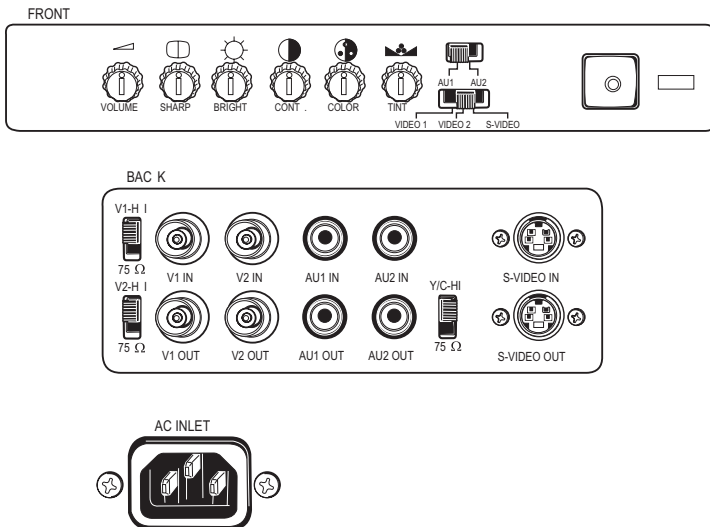
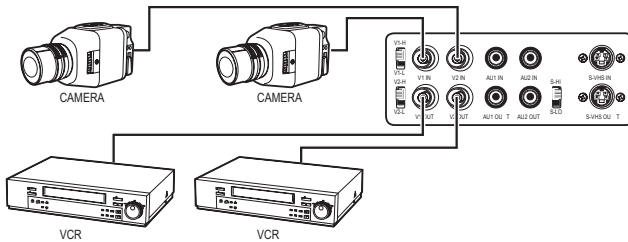


Figure 1. Models PMCS15A, PMCS17A, and PMCS19A Color Monitors, Front and Back Panels

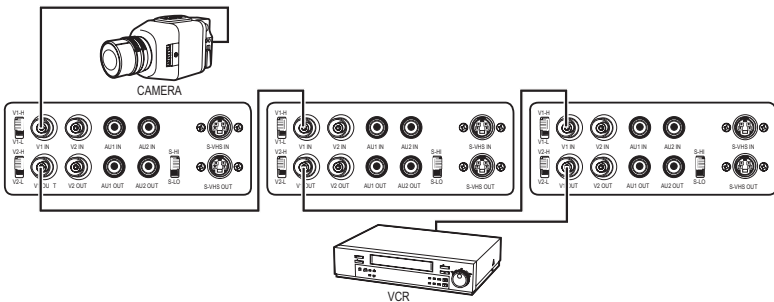
**Table A. Video Coaxial Cable Requirements**

Cable Type*	Maximum Distance
RG59/U	750 ft (229 m)
RG6/U	1,000 ft (305 m)
RG11/U	1,500 ft (457 m)

\* Minimum cable requirements:  
 75 ohms impedance  
 All-copper center conductor  
 All-copper braided shield with 95% braid coverage



**Figure 2. Looping Operation - One Monitor with External Video Equipment**



**Figure 3. Looping Operation - Maximum of Three Monitors with External Video Equipment**

## OPERATION

1. Set the video format switch located on the front panel to one of the following settings:  
VIDEO1 - Composite video (NTSC/PAL) mode  
VIDEO2 - Composite video (NTSC/PAL) mode for two, video input operation  
S-VIDEO - S-VHS mode if the S-VHS input jack on the back of the monitor is used
2. If required adjust the picture using the control knobs on the front panel.

### Front Panel Adjustments

- TINT** Color phase adjustment. Turn clockwise to increase the greenish tones in the picture. Turn counterclockwise to increase the reddish tones in the picture.
- COLOR** Color saturation level. Turn the control knob clockwise to increase the saturation level and counterclockwise to decrease the saturation level.
- CONT** Contrast adjustment. Proper adjustment will allow maximum gradations between the darkest and lightest picture contrast. Turn the control clockwise to increase picture contrast and counterclockwise to decrease contrast.
- BRIGHT** Brightness display adjustment. Turn the control clockwise to increase brightness and counterclockwise to decrease brightness.
- SHARP** Sharpness adjustment. Adjust control knob to obtain the clearest picture.
- VOLUME** Audio adjustment. Turn the control clockwise to increase volume and counterclockwise to decrease volume.

## MAINTENANCE

If the quality of the picture is poor and cannot be improved by making adjustments on the front control panel, inspect all system connections and cable runs.

To reduce the risk of electrical shock, do not remove the cover or back of monitor. No user-serviceable parts are inside. Refer servicing to qualified personnel, or contact the Pelco Customer Service Department for assistance. Refer to the Warranty and Return Information section.

# SPECIFICATIONS

## **ELECTRICAL**

Input Voltage	90-260 VAC, 50/60 Hz, autoranging
Power Consumption	
PMCS15A	70 watts
PMCS17A	95 watts
PMCS19A	Approximate 100 watts
Horizontal Resolution	
PMCS15A	700 TV lines
PMCS17A	700 TV lines
PMCS19A	800 TV lines
Visual Picture Size	
PMCS15A	14-inch diagonal
PMCS17A	16-inch diagonal
PMCS19A	18-inch diagonal
Sweep Linearity	10%
Speaker Output	1.0 watt (-3 dBV)

## **GENERAL**

Input/Output	
Video	2 BNC inputs: 75 ohms or Hi-Z 2 looping outputs
Audio	2 RCA inputs, Hi-Z 2 looping outputs
S-Video	1 input DIN 1 looping output
Construction	Steel cabinet
Finish	Black with black bezel around screen
Dimensions	
PMCS15A	14.0 (W) x 12.9 (H) x 15.0 (D) inches (35.6 x 32.7 x 38.1 cm)
PMCS17A	16.0 (W) x 14.5 (H) x 16.0 (D) inches (40.6 x 36.9 x 40.6 cm)
PMCS19A	17.4 (W) x 16.4 (H) x 17.5 (D) inches (44.0 x 41.5 x 44.5 cm)
Weight	
PMCS15A	35 lb (15.8 kg)
PMCS17A	43 lb (19.5 kg)
PMCS19A	53 lb (24.0 kg)

## **ENVIRONMENTAL**

Operating Temperature	32° to 106°F (0° to 41°C)
Humidity	0% to 90% (noncondensing)



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.

(Design and product specifications subject to change without notice.)

# PRODUCT WARRANTY AND RETURN INFORMATION

## WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

## RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

*If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:*

Service Department  
Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699

*If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:*

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors  
473 Eccles Avenue  
South San Francisco, CA 94080 USA  
Phone: 650-737-1700  
Fax: 650-737-0933

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## REVISION HISTORY

Manual #	Date	Comments
C1991M	11/00	Original version.
C1991M-A	01/01	Added ETL and cETL certifications.
C1991M-B	2/01	Added information on model PMCS19A.
C1991M-C	9/04	Added information on model PMCS15A. Deleted model PMCS14A. Revised unit weights.