500 Series Flat Panel LCD Monitor

C2937M-C (4/08)

Contents

List of Illustrations

List of Tables

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 blade 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. Only use 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. Unplug the apparatus during lightning storms or when unused for long periods of time.

15. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

17. Installation should be done only by qualified personnel and conform to all local codes.

18. Unless this unit is specifically marked as 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.

19. Only use installation methods and materials capable of supporting four times the maximum specified load.

20. Only use replacement parts recommended by Pelco.

21. Avoid touching the screen directly with your fingers as the oils from your skin may be difficult to remove from the LCD.

22. Do not apply direvect pressure on the screen.

23. Keep the monitor in a dust-free environment and away from strong electromagnetic fields.

24. Do not use attachments, such as mounts, that are not recommended by Pelco. They may be hazardous.

25. Do not place the monitor on an unstable stand, bracket, or mount. The unit may fall, causing serious damage to the unit or injury to a person. Only use mounts recommended by Pelco.

26. A CCC-approved power cord must be used to power this equipment when used in China.

27. A still image displayed too long may cause permanent damage to the LCD panel. Watching the LCD in 4:3 format for a long time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen. Using a camera or a system may cause a similar effect to the screen. Damages caused by this effect are not covered by the warranty.

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.

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

CAUTION:
RISK OF ELECTRIC SHOCK. DO NOT OPEN.

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 A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

In order to maintain compliance with FCC regulations shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and television reception.

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

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

Description

The 500 Series high performance LCD monitors are designed specifically for the security industry and provide high quality display of video or computer signals using multiple inputs. Adjustments of standard monitor display parameters are made using user-friendly, on-screen menus and front panel controls.

For viewing multiple cameras simultaneously in high-definition quality on the LCD monitor, Pelco recommends using PMVC4 and PMVR2 multiviewers. The PMVC4 can accept up to four composite inputs while the PMVR2 can accept up to two DVI or VGA inputs. Both models can be mixed and matched and cascaded together (daisy-chained) to put as many as 60 images of varying window sizes on the screen in clear HD quality. This method eliminates the need of having multiple CRTs or smaller LCD monitors in racks to monitor security video. One or two LCD monitors and a number of multiviewers can accomplish the same end with less space, less energy, and more versatility.

MODELS

PMCL523A	23-inch (583 mm) active TFT LCD monitor
PMCL526A	26-inch (660 mm) active TFT LCD monitor
PMCL532A	32-inch (800 mm) active TFT LCD monitor
PMCL537A	37-inch (940 mm) active TFT LCD monitor
PMCL542A	42-inch (1,067 mm) active TFT LCD monitor

EXTERNAL SPEAKERS

External speakers are optional with the 26-, 32-, 37-, and 42-inch models. The external speakers attach to the sides of the monitor. The speaker model numbers are as follows:

- PMCL526A-SPKRS for the 26-inch LCD monitor
- PMCL532A-SPKRS for the 32-inch LCD monitor
- PMCL537A-SPKRS for the 37-inch LCD monitor
- PMCL542A-SPKRS for the 42-inch LCD monitor

NOTE: All models have internal speakers. For improved audio performance, external speakers are recommended.

PACKAGE CONTENTS

Qty	Description
1	23-, 26-, 32-, 37-, or 42-inch TFT LCD monitor with attached stand (removable)
1	US standard power cord
1	EU standard power cord
1	DVI cable
1	VGA cable with 15-pin D-sub connection
1	Remote control unit
2	AAA batteries
1	Installation/Operation manual

MONITOR

USER MANUAL
1 EA.

REMOTE CONTROL
1 EA.
AAA BATTERIES
2 EA.

DVI CABLE
1 EA.

VGA CABLE
1 EA.
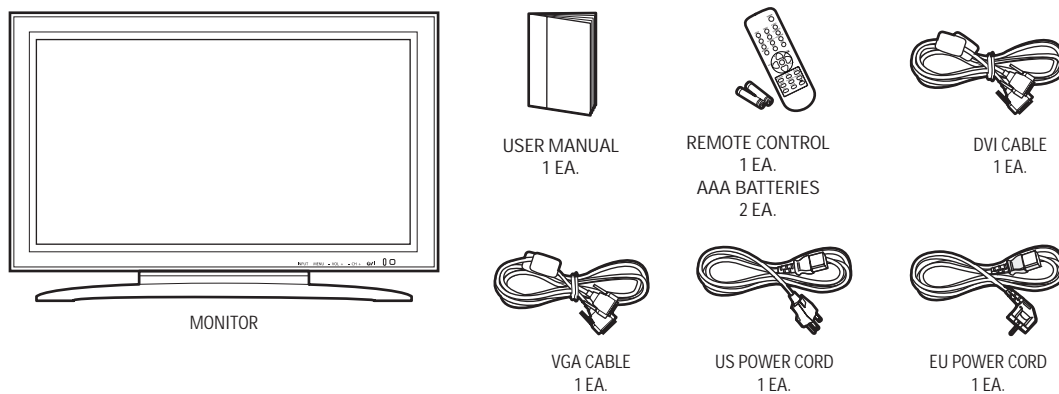
US POWER CORD
1 EA.

EU POWER CORD
1 EA.

Figure 1. Parts List

Installation

MOUNTING

The monitor can be placed on any flat surface (desk or table), or it can be wall mounted.

- For the 23-, 26-, and 32-inch models, Pelco recommends the PMCL-WMT tilt wall mount, the PMCL-CM or PMCL-CMP ceiling mount, and the PMCL-WM1A or PMCL-WM2A articulating wall mounts. The 32-inch model LCD monitor requires an adapter plate (PMCL-V200) to make these mounts compatible.

- The 37- and 42-inch models use a PMCP-WM wall mount or the PMCL-CM or PMCL-CMP ceiling mount. The ceiling mount requires a PMCL-VA adapter plate for the 37- and 42-inch models. Check the Pelco Web site (www.pelco.com) or contact a sales representative for available mounts as of the publication date of this manual.

Table A. Mounting Hole Patterns

	VESA® Compatible		Non-VESA
	100 X 100	200 X 200	Universal Mount
PMCL523A	•		
PMCL526A	•		
PMCL532A		•	
PMCL537A			•
PMCL542A			•

DESKTOP STAND

You can remove the desktop stand by removing the four screws that attach the stand to the back of the monitor. Refer to Figure 2.
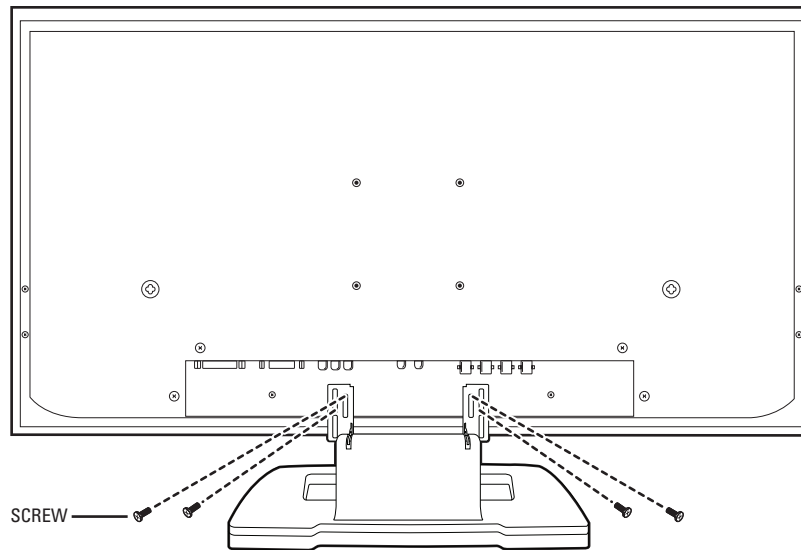

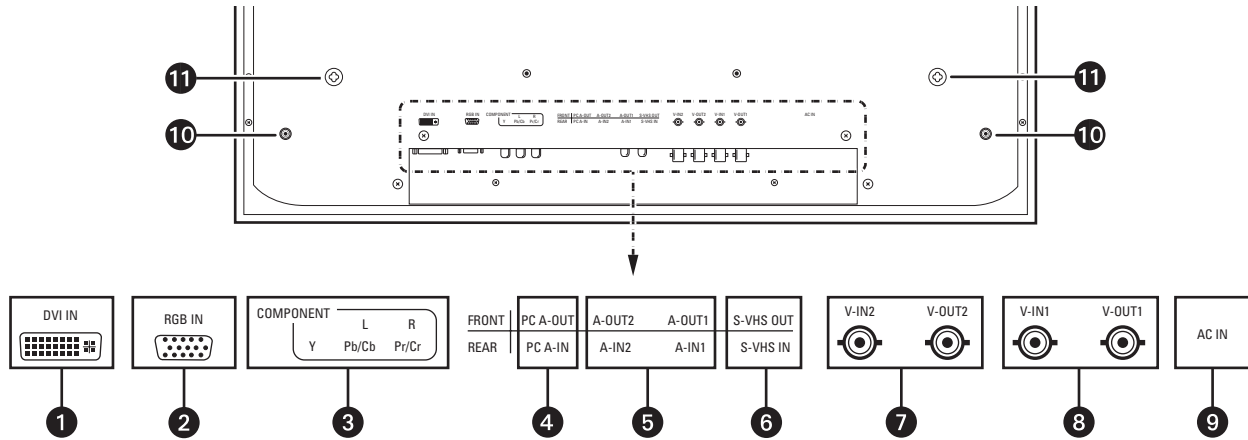**Figure 2.** Removing the Stand (PMCL523A Example)

REAR PANEL CONNECTORS

Figure 3. Rear Panel Connectors

❶ **DVI IN:** Connection to digital video signals from a computer or any DVI output.

❷ **RGB IN (VGA):** Connection to RGB (VGA) output of a computer or any VGA output.

❸ **COMPONENT:** Autodetecting component video inputs (Y/LPb/Pr or Y/RCb/Cr) for connecting to the component output jacks of a DVD player.

❹ **PC A-OUT and PC A-IN (loop through):** Stereo mini jack input to be used in conjunction with the RGB input from a DVR. Audio loops through the stereo mini jack output.

❺ **A-OUT2, A-IN2, A-OUT1, A-IN1 (loop through):** Mono RCA audio inputs.

❻ **S-VHS OUT, S-VHS IN (loop through):** Connection of S-Video signals from external sources such as VCRs or DVD players. Video loops through the 4-pin DIN S-Video output.

❼ **V-IN2, V-OUT2 (loop through):** Input connections from time-lapse VCRs. Video loops through the BNC video output.

❽ **V-IN1, V-OUT1 (loop through):** Input connections from time-lapse VCRs. Video loops through the BNC video output.

❾ **AC IN:** Power receptacle, which can be connected to a 100-240 VAC, 50/60 Hz source.

❿ **(External Speaker Jacks):** Stereo mini jack inputs for optional external speakers.

⓫ **(Mounting Holes)**

NOTES:

• RGB is also referred to as VGA or PC connector in the video security market. We use the term RGB in this manual, in the menu, and on the remote control. The RGB connector is a D-sub 15-pin female plug. RGB is analog but provides a clear, sharp picture. It can carry either standard or HDTV formats.

• Component is not commonly used in the video security industry. It uses three RCA cables: red, green, and blue for better color separation and a superior picture over composite. Component is an analog format that can carry standard and high-definition video and is most commonly found on DVD players. To receive audio, you must connect the DVD output to the audio input.

• Digital Video Interface (DVI) provides the best picture. It is used in Pelco products such as Endura®, PMVR2, PMVC4, PL outputs, DVD players, and satellite boxes. Since the signal received and monitor are both digital, no conversion occurs to degrade the signal. Pelco recommends using multiviewers (PMVR2, PMVC4) with the 500 Series monitors using DVI. The 500 Series uses a DVI-D interface, so DVI-I cables will not work. DVI can carry either standard or HDTV formats.

Operation

FRONT PANEL CONTROLS
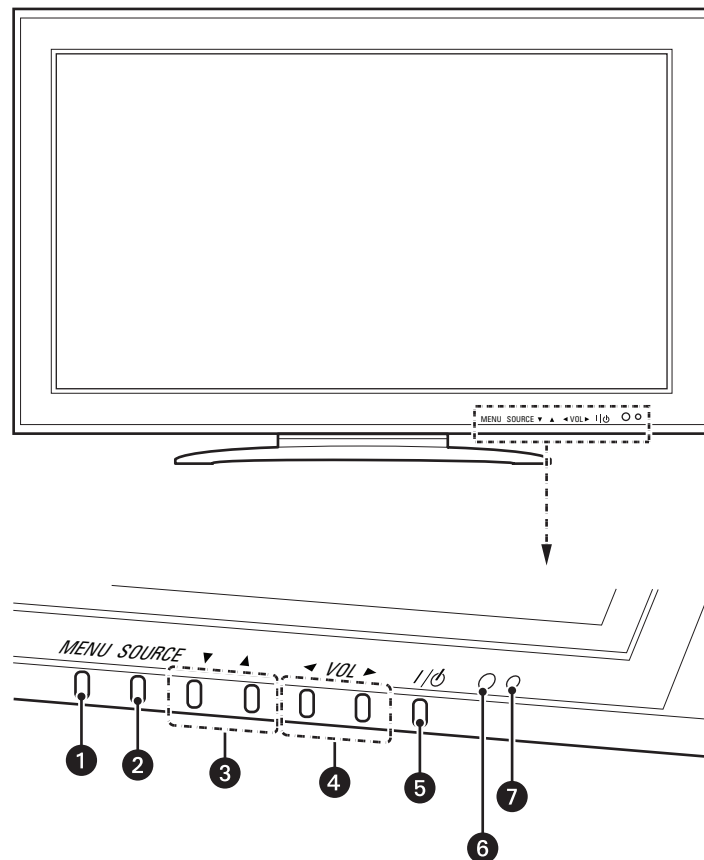
Figure 4. Front Panel Controls

❶ **MENU:** Displays the main on-screen menu.

❷ **SOURCE:** Selects the input source and confirms your choice.

❸ ▼ and ▲ : Navigates through the on-screen menu.

❹ ◀ **VOL** ▶ : Increases or decreases the volume. Also selects or adjusts items on the on-screen menu.

❺ **(Power Button):** Turns on/off the *monitor.*

❻ **(Remote Control Signal Receiver):** Receives remote control signal. Aim the remote control at this spot on the monitor.

❼ **(Power Indicator):** Indicates power status. Red indicates the power is off; green indicates the power is on.

INSTALLING REMOTE CONTROL BATTERIES
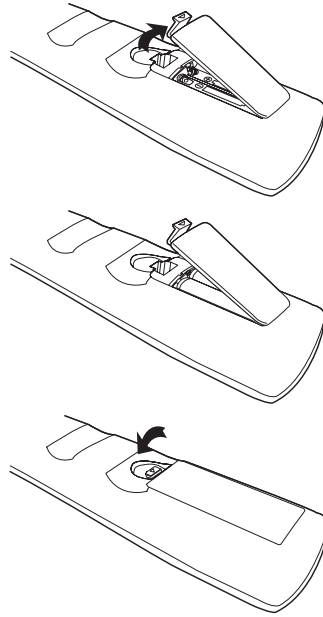
Figure 5. Battery Installation

Refer to Figure 5 for the following procedure.

1. Open and remove the battery cover on the back of the remote control.

2. Install two AAA size batteries (supplied). Match the positive (+) and negative (–) signs on the batteries to the signs on the battery compartment.

3. Close the battery cover. Make sure the lock snaps closed.

⚠ **WARNINGS:**

   • Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.
   • Do not mix battery types.
   • Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
   • Remove the batteries if you do not intend to use the remote control for a long period of time.

C2937M-C (4/08)

REMOTE CONTROL FUNCTIONS
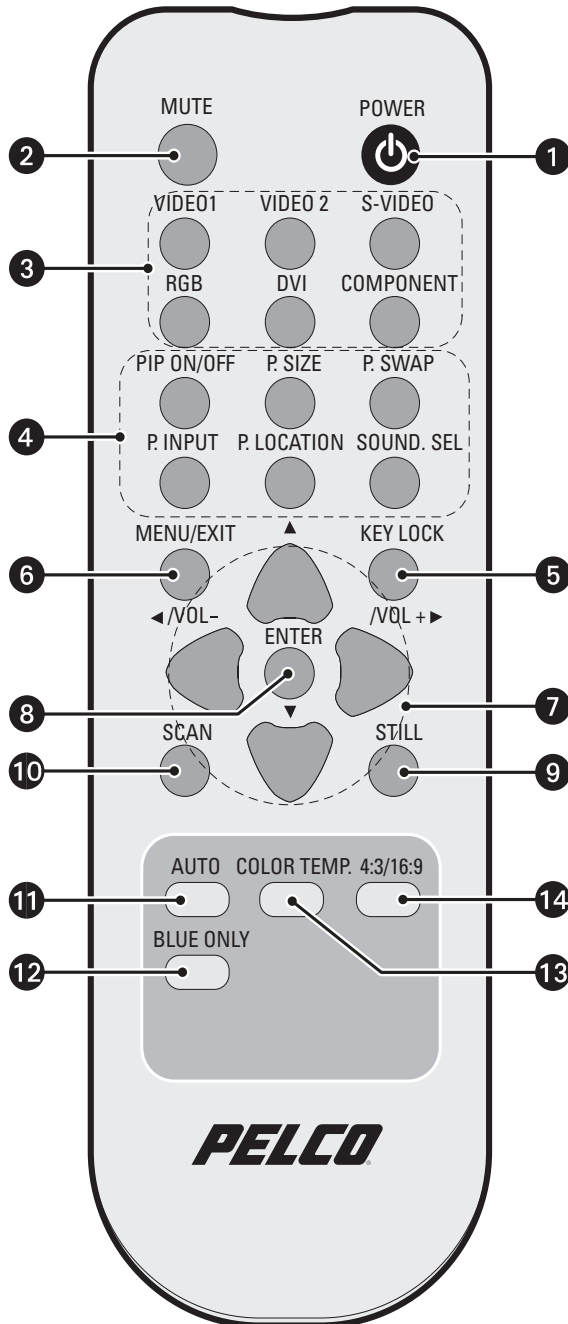
Figure 6. Remote Control Functions

1 **POWER:** Turns on or off power to the monitor.

2 **MUTE:** Silences the sound. To return the sound, press MUTE again, VOL +, or VOL -.

3 **(Input Source):** Displays all the available input sources. Press the button to select the desired input source.

4 **(PIP):** Controls the PIP (picture-in-picture) as follows:

- **PIP ON/OFF:** Activates/deactivates PIP/PBP mode.
- **P.SIZE:** Selects the size of the subpicture.
- **P.SWAP:** Swaps the main and subpicture.
- **P.INPUT:** Selects an input source for the subpicture.
- **P.LOCATION:** Selects a location for the subpicture.
- **SOUND SEL:** Selects the sound of the main or subpicture.

5 **(Key Lock):** Prevents unauthorized operation of the equipment by locking the buttons on the front panel. Only the buttons on the remote control can be used.
NOTE: If the remote control is lost or damaged, pressing and holding the SOURCE button on the front panel for five seconds will unlock the keys.

6 **MENU/EXIT:** Displays/exits the on-screen menu.

7 ◀ **/VOL-** and ▶ **/VOL+**, ▲ , ▼ : Controls the cursor in the on-screen menu, and also adjusts the volume up or down.

8 **ENTER:** Confirms (store or enter) your choice in the on-screen menu.

9 **STILL:** Freezes the current picture.

10 **SCAN:** Changes the scan mode of the screen (UNDER, 16:9, OVER, 4:3).

11 **AUTO:** Selects auto adjustment of the screen in RGB mode.

12 **BLUE ONLY:** Turns off the red and green colors on the screen to allow color adjustment using professional calibration tools.

13 **COLOR TEMP:** Adjusts the color temperature (Kelvin) of the screen Select NORMAL, COOL, or USER.

14 **4:3/16:9:** Swaps the picture between 4:3 mode and 16:9 mode.

ON-SCREEN DISPLAY (OSD) FUNCTION

INPUT SOURCE DISPLAY
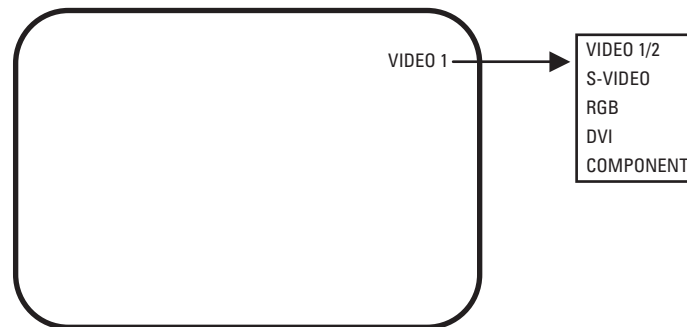
Figure 7. Input Source Display Menu

The input source name is displayed in the upper-right corner. You can change the input source there or by pressing one of the input source keys on the remote control.

MENUS

The menus are the same for the PMCL523A, PMCL526A, PMCL532A, PMCL537A, and PMCL542A. Since different options are available for different input types, some options may be unavailable.

To use the menus:

1. Press the MENU button to access the Main menu.

2. Use the ▲ and ▼ buttons to highlight a selection.

3. Press the ENTER button to select an item.

4. Use the ◀ **/VOL-** and ▶ **/VOL+** buttons to adjust the setting of a selected item.

VIDEO 1, VIDEO 2, S-VIDEO COMPONENT MODE MENU

MAIN MENU

INPUT
CONTRAST
BRIGHTNESS
COLOR
SHARPNESS
TINT
3D NOISE REDUCTION
LANGUAGE
PANEL BUTTONS
PIP
SCAN MODE
OSD SETTING
COLOR TEMPERATURE
DEFAULT SETTING
INFORMATION

Input Menu

VIDEO 1
VIDEO 2
S-VIDEO
RGB
DVI
COMPONENT

Contrast Menu

0   100

Brightness Menu

0   100

Color Menu

0   100

Sharpness Menu

0   15

Tint Menu

0   100

3D Noise Reduction Menu

OFF
NR ON

Language Menu

ENGLISH
ITALIAN
FRENCH
SPANISH
GERMAN

Panel Buttons Menu

UNLOCK
LOCK

PIP Menu

SETUP

Scan Mode Menu

UNDER
16:9
OVER
4:3

OSD Setting Menu

SETUP

Color Temp. Menu

NORMAL
COOL
USER

Default Setting Menu

RESTORE

INFORMATION

Setup Menu

PIP OPTION
PIP INPUT
PIP LOCATION
PIP SIZE
PIP SWAP

OSD Setting Menu

OSD H.POSITION
OSD V.POSITION
OSD DISPLAY TIME

User Menu

R-GAIN
B-GAIN
B-GAIN
R-OFFSET
G-OFFSET
B-OFFSET
RESET

PIP Input Menu

VIDEO 1
VIDEO 2
S-VIDEO
COMPONENT

PIP Size Menu

LARGE
SMALL
NORMAL

PIP Swap Menu

SWAP

PIP Location Menu

T/L
T/R
B/R
B/L

PIP Options Menu

PIP OFF
PIP ON
PBP ON

OSD H Position

0   100

OSD Dwelling Time

OFF
5   30

OSD V Position

0   100

R-Gain Menu

0   100

B-Gain Menu

0   100

G-Offset Menu

0   100

Reset Setting

RESTORE

G-Gain Menu

0   100

R-Offset Menu

0   100

R-Offset Menu

0   100

Figure 8. Video 1, Video 2, S-Video, Component Mode Menu

Video 1, Video 2, S-Video, Component Mode Menu Field Definitions

Input: Select VIDEO 1, VIDEO 2, S-VIDEO, RGB, DVI, or COMPONENT.

Contrast: Adjusts the black level of the video screen image (0 to 100).
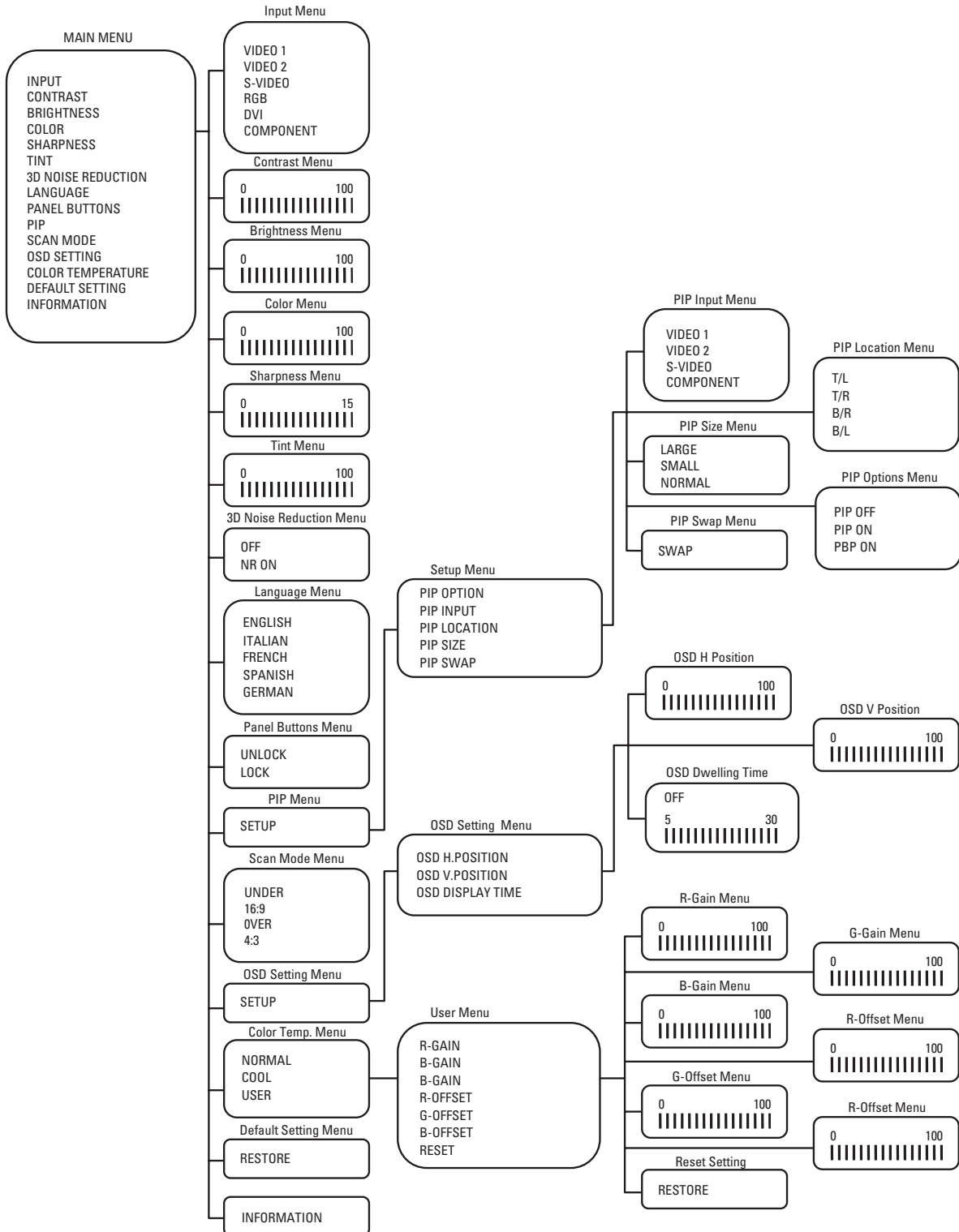
Brightness: Adjusts the white level of the video screen image (0 to 100).

Color: Adjusts the color saturation of the video signal (0 to 100).

Sharpness: Adjusts the picture softer or sharper (0 to 15).

Tint: Adjusts the range of color: green to red (0 to 100).

3D Noise Reduction: Reduces the background noise of the video signal (NR ON or OFF).

Language: Select ENGLISH, ITALIAN, FRENCH, SPANISH, or GERMAN for the OSD display.

Panel Buttons: Select UNLOCK or LOCK, and then press Enter to lock/unlock the buttons on the front panel. Authorized users can release the key lock feature by pressing and holding the SOURCE button for five seconds.

PIP: Select SETUP for the picture-in-picture, and then select one of the following options:
- **PIP Option:** Select PIP OFF, PIP ON, or PBP ON.
- **PIP Input:** Select VIDEO 1, VIDEO 2, S-VIDEO, or COMPONENT.
- **PIP Location:** Select the PIP position as T/L (top left), T/R (top right), B/R (bottom right), or B/L (bottom left).
- **PIP Size:** Select the PIP size as LARGE, SMALL, or NORMAL.
- **PIP Swap:** Select SWAP to interchange Main with PIP by pressing the ENTER button twice.

Only limited inputs can be selected while in PIP mode, based on the main video source in use (refer to Table B):

Table B. PIP Mode Inputs

Main Video Source	Accessible PIP Inputs
Video 1	S-Video, Component, Video 2
Video 2	S-Video, Component, Video 1
S-Video	Component, Video 1, Video 2
RGB	Component, Video 1, Video 2, S-Video
DVI	S-Video, Component, Video 1, Video 2
Component	Video 1, Video 2, S-Video

Scan Mode: Select UNDER, 16:9, OVER, or 4:3 .This is in the Video menu.

OSD Setting: Select SETUP for the on-screen display. Then select one of the following:
- **OSD H.Position:** Adjusts the OSD horizontal position (0 to 100).
- **OSD V.Position:** Adjusts the OSD vertical position (0 to 100).
- **OSD Display Time:** Select OFF or a range of 5-30 seconds.

Color Temperature: Select NORMAL, COOL, or USER. If you select USER, then select from the following calibrations:
- **R-Gain:** Adjusts the gain for red (0 to 100).
- **G-Gain:** Adjusts the gain for green (0 to 100).
- **B-Gain:** Adjusts the gain for blue (0 to 100).
- **R-Offset:** Adjusts the offset (or cut) for red (0 to100).
- **G-Offset:** Adjusts the offset (or cut) for green (0 to 100).
- **B-Offset:** Adjusts the offset (or cut) for blue (0 to 100).
- **Reset:** Select RESTORE to return to the original color temperature settings.

Default Setting: Select RESTORE to return to the default settings.

Information: Select INFORMATION to access Pelco headquarters information.

RGB/DVI MODE MENU

MAIN MENU

INPUT
CONTRAST
BRIGHTNESS
H. POSITION
V. POSITION
FREQUENCY
PHASE
AUTO POSITION
LANGUAGE
PANEL BUTTONS
PIP
ASPECT RATIO
OSD SETTING
COLOR TEMPERATURE
DEFAULT SETTING
INFORMATION

VIDEO 1
VIDEO 2
S-VIDEO
RGB
DVI
COMPONENT

Contrast Menu
0   100

Brightness Menu
0   100

H. Position Menu
0   100

V. Position Menu
0   100

Frequency Menu
0   100

Phase Menu
0   100

Auto Position Menu
DISABLE
1024 X 768
1280 X 768
1360 X 768
1366 X 768

Panel Buttons Menu
UNLOCK
LOCK

PIP Menu
SETUP

Aspect Ratio
UNDER
16:9
OVER
4:3

OSD Setting Menu
SETUP

Color Temp. Menu
NORMAL
COOL
USER

Default Setting Menu
RESTORE

INFORMATION

Setup Menu
PIP OPTION
PIP INPUT
PIP LOCATION
PIP SIZE
PIP SWAP

OSD Setting Menu
OSD H.POSITION
OSD V.POSITION
OSD DISPLAY TIME

User Menu
R-GAIN
B-GAIN
B-GAIN
R-OFFSET
G-OFFSET
B-OFFSET
RESET

PIP Input Menu
VIDEO 1
VIDEO 2
S-VIDEO
COMPONENT

PIP Size Menu
LARGE
SMALL
NORMAL

PIP Swap Menu
SWAP

PIP Location Menu
T/L
T/R
B/R
B/L

PIP Options Menu
PIP OFF
PIP ON
PBP ON

OSD H Position
0   100

OSD Dwelling Time
OFF
5   30

OSD V Position
0   100

R-Gain Menu
0   100

B-Gain Menu
0   100

G-Offset Menu
0   100

Reset Setting
RESTORE

G-Gain Menu
0   100

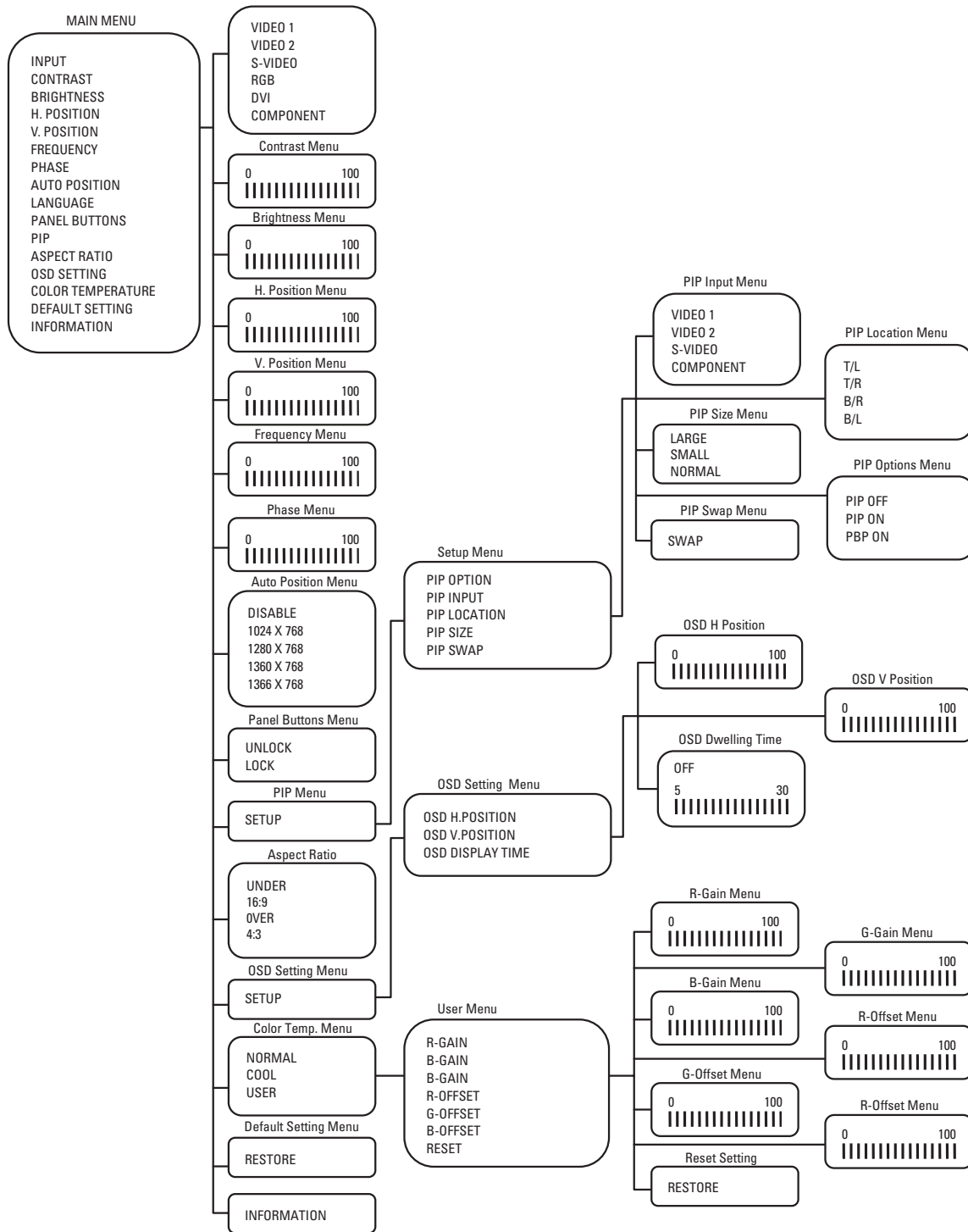R-Offset Menu
0   100

R-Offset Menu
0   100

Figure 9. RGB/DVI Mode Menu

RGB/DVI Mode Menu Field Definitions

NOTE: The DVI menu has a more limited selection. It consists of the following options: Input, Contrast, Brightness, Language, Panel Buttons, PIP, Aspect Ratio, OSD Setting, Color Temp., Default Setting, and Information.

Input: Select RGB or DVI.

Contrast: Adjusts the black level of the video screen image (0 to 100).

Brightness: Adjusts the white level of the video screen image (0 to 100).

H-Position: (RGB only; not in DVI mode.) Adjusts the horizontal position (0 to 100).

V-Position: (RGB only; not in DVI mode.) Adjusts the vertical position (0 to 100).

Frequency: (RGB only; not in DVI mode.) Adjusts the horizontal size of the screen image (0 to 100).

Phase: (RGB only; not in DVI mode.) Adjusts image distortion appearing as horizontal noise on the screen (0 to 100).

Auto Position: (May be dimmed.) Select DISABLE, 1024 x 768, 1280 x 768, 1360 x 768, or 1366 x 768.
- This menu is an override function.
- The menu is enabled only when the input signal is in one of these resolutions. Other resolutions are not displayed, and are set by autodetection.
- If the screen is not displayed correctly, change the resolution selection.
- The resolution remains as you set it until changed again.
- If the display is distorted or shifted at a resolution of 1366 x 768 or 1360 x 768, adjust the resolution here by manually selecting 1366 x 768 or 1360 x 768.

Language: The choices are English, Italian, French, Spanish, and German.

Panel Buttons: Select UNLOCK or LOCK, and then press Enter to lock/unlock the buttons on the front panel. Authorized users can release the key lock feature by pressing and holding the SOURCE button for five seconds.

PIP: Select Setup for the picture-in-picture, and then select one of the following:
- **PIP Option:** Select PIP OFF, PIP ON, or PBP ON.
- **PIP Input:** Select VIDEO 1, VIDEO 2, S-VIDEO, or COMPONENT.
- **PIP Location:** Select the PIP position as T/L (top left), T/R (top right), B/R (bottom right), or B/L (bottom left).
- **PIP Size:** Select the PIP size as LARGE, SMALL, or NORMAL.
- **PIP Swap:** Select SWAP to interchange Main with PIP. (This is in the DVI mode.)

Aspect Ratio: Select UNDER, 16:9, OVER, or 4:3. (This is in DVI mode.)

OSD Setting: Select Setup for the on-screen display. Then select one of the following:
- **OSD H.Position:** Adjusts the OSD horizontal position (0 to 100).
- **OSD V.Position:** Adjusts the OSD vertical position (0 to 100).
- **OSD Display Time:** Select OFF or a range of 5 to 30 seconds.

Color Temperature: Select NORMAL, COOL, or USER. If you select USER, then select from the following calibrations:
- **R-Gain:** Adjusts the gain for red (0 to 100).
- **G-Gain:** Adjusts the gain for green (0 to 100).
- **B-Gain:** Adjusts the gain for blue (0 to 100).
- **R-Offset:** Adjusts the offset (or cut) for red (0 to 100).
- **G-Offset:** Adjusts the offset (or cut) for green (0 to 100).
- **B-Offset:** Adjusts the offset (or cut) for blue (0 to 100).
- **Reset:** Select RESTORE to return to the original color temperature settings.

Default Setting: Select RESTORE to return to the default settings.

Information: Select INFORMATION to access Pelco headquarters information.

Mode Tables

Table C. RGB/DVI Mode

Mode	Resolution	Vertical Frequency (Hz)
VGA	720 x 400	70
	640 x 480	50/60/72/75/85
SVGA	800 x 600	56/60/72/75/85
XGA	1024 x 768	60/70/75/80/85
SXGA	1280 x 1024	60
WXGA	1360 x 768	60
WXGA	1366 x 768	60
SDTV 480P	720 x 480	60
SDTV 576P	720 x 576	50
HDTV 720P	1280 x 720	60
HDTV 1080I	1920 x 1080	30

NOTE: The maximum resolution is 1366 x 768 at 60 Hz.

Table D. Main/PIP Mode

MAIN SOURCE

		Video1	Video2	S-Video	RGB	DVI	Component
SUB SOURCE	**Video1**		•	•	• (Swap)*	• (Swap)*	•
	Video2	•		•	• (Swap)*	• (Swap)*	•
	S-Video	•	•		• (Swap)*	• (Swap)*	•
	RGB						
	DVI						
	Component	•	•	•	• (Swap)*	• (Swap)*	

*Swap changes the subpicture to a main picture and vice versa.

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.

⚠ **WARNING:** To reduce the risk of electrical shock, do not remove the cover or back of the monitor. No user-serviceable parts are inside. Refer servicing to qualified personnel, or contact Pelco Customer Service (1-800-289-9100 or 1-559-292-1981) for assistance. Refer to *Product Warranty and Return Information* located on the inside back cover of this document.

CLEANING

- Gently wipe your screen with a clean camel hair brush or a soft, clean, lint-free cloth.
- Gently apply pressure to the screen surface to clean the display.
- Do not spray *any* liquid directly on the screen or the LCD monitor casing.
- Chemical cleaners can damage the screen or the LCD monitor casing.

Troubleshooting

Intermittent Loss of Video in PIP/PBP and Main Video

Possible cause: In PAL, when using PIP or PBP, cycling through cameras (with one or more cameras out of operation) causes the monitor to auto adjust and locate the signal.

Remedy: Check your input devices. If there is a problem with a camera from another input device such as no power signal or bad video, then correct or disconnect the camera or device.

Supported Input Modes

Table E. Supported Input Modes

Mode	Resolution	H Freq. (kHz)	V Freq. (Hz)
0	720 x 400	31.469	70.000
1	640 x 480	31.460	50.000
2	640 x 480	31.500	60.000
3	640 x 480	37.700	72.000
4	640 x 480	37.500	75.000
5	640 x 480	43.300	85.000
6	800 x 600	35.100	56.000
7	800 x 600	37.900	60.000
8	800 x 600	48.100	72.000
9	800 x 600	46.900	75.000
10	800 x 600	53.700	85.000
11	1024 x 768	48.400	60.000
12	1024 x 768	56.500	70.000
13	1024 x 768	60.000	75.000
14	1024 x 768	64.000	80.000
15	1024 x 768	68.300	85.000
16	1280 x 1024	64.000	60.000
17	1360 x 768*	47.700	60.000
18	1366 x 768*	50.000	60.000

*If the display is distorted or shifted at a resolution of 1366 x 768
or 1360 x 768, you should adjust the resolution in Auto Position on
the OSD menu: MENU>AUTO POSITION OVERRIDE>1366 X 768
or 1360 x 768.

Specifications

MODELS

PMCL523A	23-inch (583 mm) LCD monitor
PMCL526A	26-inch (660 mm) LCD monitor
PMCL532A	32-inch (800 mm) LCD monitor
PMCL537A	37-inch (940 mm) LCD monitor
PMCL542A	42-inch (1,067 mm) LCD monitor

GENERAL

Native Resolution	1366 x 768 WXGA
Optimum Resolution	1360 x 768/1366 x 768 at 60 Hz depending on graphic card used
Panel Aspect Ratio	16:9
Viewing Area	
PMCL523A	508 x 286 mm
PMCL526A	576 x 324 mm
PMCL532A	698 x 392 mm
PMCL537A	820 x 461 mm
PMCL542A	930 x 523 mm
Pixel Pitch	
PMCL523A	0.372 x 0.372 mm
PMCL526A	0.422 x 0.422 mm
PMCL532A	0.511 x 0.511 mm
PMCL537A	0.600 x 0.600 mm
PMCL542A	0.681 x 0.681 mm
Video Formats	480i, 480p, 576i, 576p, 720p, 1080i
Brightness	
PMCL526A	450 cd/m^2
PMCL523A, PMCL532A, PMCL537A, PMCL542A	500 cd/m^2
Contrast Ratio	
PMCL523A	700:1
PMCL526A	800:1
PMCL532A, PMCL537A, PMCL542A	1000:1
Backlight Type	
PMCL523A	6 CCFL
PMCL526A	12 EEFL
PMCL532A, PMCL537A	16 EEFL
PMCL542A	18 EEFL
Panel Life	50,000 hours
Viewing Angle (H/V)	
PMCL523A	160°/160°
PMCL526A, PMCL532A, PMCL537A, PMCL542A	178°/178°
Display Colors	16.7 million
PIP (Picture-In-Picture)	Selectable, sizable, swappable, moveable
PBP (Picture-By-Picture)	Swappable
Response Time	
PMCL523A,PMCL526A, PMCL532A	8 ms
PMCL537A	6 ms
PMCL542A	5 ms
Speakers	2 internal
Front Panel Controls	Power, source/enter, menu/exit, up, down, volume minus, volume plus
Indicators	LED (power on/off)

ELECTRICAL

Input Voltage	100-240 VAC, 50/60 Hz
Power Consumption	
PMCL523A	110 W

C2937M-C (4/08)

PMCL526A	120 W
PMCL532A	150 W
PMCL537A	180 W
PMCL542A	220 W
Input Interfaces	
Video	2 BNC, looping; 1 S-Video, looping; 1, RGB; 1 DVI; 1 component
Audio	2, audio L/R, RCA jack; 1 stereo mini jack, looping
Horizontal Frequency	31 kHz to 69 kHz
Vertical Frequency	50 Hz to 85 Hz
Sync Format	NTSC/PAL

PHYSICAL

Dimensions (without stand)

PMCL523A	4.0" D x 23.5" W x 14.8" H
	(10.2 x 59.8 x 37.6 cm)
PMCL526A	4.2" D x 26.2" W x 18.7" H
	(10.7 x 66.6 x 47.5 cm)
PMCL532A	4.1" D x 31.7" W x 19.7" H
	(10.4 x 80.4 x 50.0 cm)
PMCL537A	4.5" D x 36.5" W x 22.2" H
	(11.4 x 92.8 x 56.4 cm)
PMCL542A	4.7" D x 41.9" W x 25.8" H
	(11.9 x 106.3 x 65.5 cm)

Dimensions (with stand)

PMCL523A	7.1" D x 23.5" W x 17.7" H
	(18.0 x 59.8 x 44.9 cm)
PMCL526A	8.9" D x 26.2" W x 18.4" H
	(22.6 x 66.6 x 46.7 cm)
PMCL532A	9.7" D x 31.7" W x 22.1" H
	(24.6 x 80.4 x 56.1 cm)
PMCL537A	9.7" D x 36.5" W x 24.6" H
	(24.6 x 92.8 x 62.5 cm)
PMCL542A	9.7" D x 41.9" W x 28.1" H
	(24.6 x 106.3 x 71.4 cm)

Unit Weight (without stand)

PMCL523A	27.6 lb (12.5 kg)
PMCL526A	36.4 lb (16.5 kg)
PMCL532A	50.7 lb (23.0 kg)
PMCL537A	61.7 lb (28.0 kg)
PMCL542A	71.6 lb (32.5 kg)

Unit Weight (with stand)

PMCL523A	30.9 lb (14.0 kg)
PMCL526A	43.5 lb (19.7 kg)
PMCL532A	58.0 lb (26.3 kg)
PMCL537A	71.6 lb (32.5 kg)
PMCL542A	81.5 lb (40.0 kg)

Shipping Weight

PMCL523A	35.0 lb (15.9 kg)
PMCL526A	46.0 lb (20.9 kg)
PMCL532A	62.0 lb (28.1 kg)
PMCL537A	78.0 lb (35.4 kg)
PMCL542A	84.0 lb (38.1 kg)

ENVIRONMENTAL

Operating Temperature	32° to 104°F (0° to 40°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)
Operating Humidity	20% to 80%, noncondensing
Storage Humidity	10% to 90%, noncondensing

OPTIONAL ACCESSORIES

Mounts

PMCL-CM	Ceiling mount for PMCL523A, PMCL526A, PMCL532A
PMCL-CMP	Ceiling mount for PMCL523A, PMCL526A, PMCL532A
PMCL-WM1A	Articulating wall mount for PMCL523A, PMCL526A, PMCL532A
PMCL-WM2A	Articulating wall mount for PMCL523A, PMCL526A, PMCL532A
PMCP-WM	Fixed wall mount for PMCL537A and PMCL542A
PMCL-WMT	Tilt wall mount for PMCL523A, PMCL526A, PMCL532A
PMCL-VA	Adapter plate required for use with ceiling mounts for PMCL537A and PMCL542A
PMCL-V200	Converts 200 x 200 mm to 100 x 100 mm VESA pattern. (Required for use with the PMCL532A and Pelco monitor mounts with 200 x 200 mm VESA pattern.)

Speakers

PMCL526A-SPKRS	Optional external speakers for PMCL526A
PMCL532A-SPKRS	Optional external speakers for PMCL532A
PMCL537A-SPKRS	Optional external speakers for PMCL537A
PMCL542A-SPKRS	Optional external speakers for PMCL542A

Multiviewers

PMVR2	Multiviewer with 2 DVI and 2 VGA inputs, VGA or DVI output
PMVC4	Multiviewer with 4 composite inputs, VGA or DVI output

NOTE: Check the Pelco Web site at *www.pelco.com* or contact a sales representative for available newer mounts as of the publication date of this manual.

(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 fiber optic products and TW3000 Series unshielded twisted pair (UTP) transmission products.
- Three years on Spectra® IV products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on DX Series digital video recorders, DVR5100 Series digital video recorders, DigitalSENTRY® Series hardware products, DVX Series digital video recorders, NVR300 Series network video recorders, and Endura® Series distributed network-based video products.
- Three years on Camclosure® and Pelco-branded 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.
- Three years on PMCL200/300/400 Series LCD monitors.
- 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 III™, Spectra Mini, Esprit®, ExSite®, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Two years on Intelli-M® eIDC controllers.
- 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 (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 a Pelco designated location. 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 that 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

To expedite parts returned for repair or credit, please call Pelco 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) and designated return location.

All merchandise returned for credit may be subject to a 20 percent 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.

1-8-08

⊠Green The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.

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
C2937M	1/07	Original version.
C2937M-A	5/07	Added PMCL-V100 per ECO 07-17659.
C2937M-B	12/07	Revised the document due to change of manufacturer. All models are new.
C2937M-C	4/08	Included 1360 x 768 resolution in the Auto Position description and the Supported Input Modes chart. Added Optimum Resolution to the specifications. Added a Mounting Hole Patterns table. Updated the warranty.

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