



# 400 Series Flat Panel, TFT LCD Monitor

## 15-INCH, 17-INCH, 19-INCH MULTIMODE MONITORS

### Product Features

- Space-Saving, Flat Panel Design
- Picture-Frame-Style Desktop Stand
- Two Looping Composite Inputs and One S-Video Input
- VGA Input
- 3-D Digital Comb Filter with Deinterlacing for High Quality Video
- Picture-In-Picture (PIP)
- Digital DVI Input
- USB Hub
- Maximum Brightness of 450 cd/m<sup>2</sup> (PMCL419), 430 cd/m<sup>2</sup> (PMCL417), 350 cd/m<sup>2</sup> (PMCL415)
- Maximum Contrast Ratio of 600:1 (PMCL419), 500:1 (PMCL417, PMCL415)
- Maximum Response Time of 8 ms (PMCL419, PMCL417), 16 ms (PMCL415)
- 100/240 VAC, 60/50 Hz Autoranging Internal Power Supply
- Low Power Consumption (<50 W)

The **400 Series** high performance LCD monitors, designed specifically for the security industry, provide high quality display of video or computer signals using multiple inputs. These 17- and 19-inch monitors have a color LCD panel with a thin film transfer (TFT) active matrix. The monitors automatically adapt to the appropriate input resolution (up to 1280 x 1024).

The **400 Series** is distinguished by many performance enhancing features such as a 3-D digital comb filter, DVI (digital visual interface) input, picture-in-picture (PIP), and USB hub. The 3-D digital comb filter with deinterlacing provides the most accurate processing of composite video signals for a sharper, cleaner picture. DVI ensures that digital signals remain uncompressed (in their true digital form) without the distortion that may occur through analog-to-digital conversion. The PIP feature allows for simultaneous viewing of surveillance camera images and PC screens. A USB hub provides a single input with three outputs adding to the overall flexibility of the high performance **400 Series**.

The **400 Series** provides two looping composite (BNC) and one S-Video inputs. Additionally, these models provide an analog VGA input to support the use of DVRs (digital video recorders) and PC applications. This multimode functionality—combined with the high



- Internal Speakers
- Optional Rack, Wall, Ceiling, and Camera Mounts
- 12 VDC Available for Camera Power

performance features, quick panel response time to minimize ghosting in motion video, ergonomic design, autoranging internal power supply, and low power consumption—makes the **400 Series** the optimal replacement for conventional CRT monitors.

The **400 Series** features a folding picture-frame-style desktop stand, optional rack mount kits, and VESA®-compliant mounting holes to easily adapt to different wall and ceiling mounts.

These monitors automatically detect and display the correct video format (NTSC or PAL) and are powered by an internal autoranging power supply.

The **400 Series** uses four long life CCFT (cold cathode fluorescent tube) backlights to maintain the brightness level over time, eliminating the brightness degradation common in aging CRT monitors.

Adjustments of standard monitor display parameters are made using user-friendly, on-screen menus and front panel controls.



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International Standards  
Organization Registered Firm  
ISO 9001 Quality System



# TECHNICAL SPECIFICATIONS

## MODELS

PMCL415	15-inch (381 mm) active TFT LCD monitor
PMCL417	17-inch (432 mm) active TFT LCD monitor
PMCL419	19-inch (483 mm) active TFT LCD monitor

## GENERAL

LCD Panel Pixel Array	
PMCL415	1024 x 768, 75 Hz
PMCL417, PMCL419	1280 x 1024, 75 Hz (Maximum VGA and DVI resolution is 1024 X 768)
Panel Aspect Ratio	
PMCL415	4:3
PMCL417, PMCL419	4:3 composite, 5:4 VGA
Viewing Area	
PMCL415	304 x 228 mm
PMCL417	338 x 270 mm
PMCL419	376 x 301 mm
Pixel Pitch	
PMCL415	0.297 x 0.297 mm
PMCL417	0.264 x 0.264 mm
PMCL419	0.294 x 0.294 mm
Brightness	
PMCL415	350 cd/m <sup>2</sup>
PMCL417	430 cd/m <sup>2</sup>
PMCL419	450 cd/m <sup>2</sup>
Contrast Ratio	500:1
Backlight Type	4 CCFL
Panel Lamp Life	40,000 hours
Viewing Angle (H/V)	
PMCL415	140°/125°
PMCL417	140°/130°
PMCL419	150°/130°
Tilt	<10° to >45°
Display Colors	
PMCL415, PMCL417	16.2 million
PMCL419	16.7 million
Response Time	
PMCL415	16 ms
PMCL417	8 ms
PMCL419	8 ms
Speakers	Integrated, 2 x 1.0 W
Front Panel Controls	Video input, menu (up, down, left, right), power, front panel lockout
Indicators	LED (power on, standby, sleep), on-screen ("no signal")

## ELECTRICAL

Input Voltage	100-240 VAC, 50/60 Hz, internal power supply or 12 VDC external power supply (not included)
Power Consumption	
PMCL415	<50 W (on)
PMCL417, PMCL419	<60 W (on)
Power Output	12 VDC output to camera
Input Interfaces	
Video*	2, BNC, looping; 1, S-Video, looping; 1 VGA; 1, DVI; 1, PIP
Audio	1 (L/R), RCA, looping
Horizontal Frequency	30 kHz to 60 kHz
Vertical Frequency	56 Hz to 75 Hz
Sync Format	NTSC/PAL autosensing

\*Maximum VGA and DVI resolution is 1024 X 768 on PMCL417 and PMCL419.

## PHYSICAL

Dimensions	
PMCL415	13.7" W x 11.7" H x 3.0" D (34.7 x 29.8 x 7.5 cm)
PMCL417	15.0" W x 13.4" H x 3.2" D (38.1 x 34.1 x 8.0 cm)
PMCL419	3.3" D x 16.6" W x 14.7" H (8.3 x 42.1 x 37.4 cm)
Unit Weight	
PMCL415	10.1 lb (4.6 kg)
PMCL417	13.1 lb (5.9 kg)
PMCL419	15.1 lb (6.9 kg)
Shipping Weight	
PMCL415	14.0 lb (6.4 kg)
PMCL417	18.0 lb (8.2 kg)
PMCL419	20.0 lb (9.1 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 85%, noncondensing
Storage Humidity	5% to 90%, noncondensing

## RECOMMENDED MOUNTS

Wall Mounts	PMCL-WM, PMCL-WMT, PMCL-WM1A, PMCL-WM2A
Ceiling Mounts	PMCL-CM, PMCL-CMP
Rack Mounts	PMCL-RM15, PMCL-RM17, PMCL-RM19
Camera Mount	CM1750-PVM (Public View Mount)

**Note:** The 400 Series are VESA MIS-D, 100/75, C-Compliant monitors equipped with a 100 x 100 mm mounting hole pattern. The 400 Series features a 1/4-inch UNC-20 mounting hole on the top and bottom of the monitor for attaching a camera mount.

## OPTIONAL ACCESSORIES

PMVC4	Multiviewer; displays up to four composite video images on a single monitor using a VGA (analog) or DVI (digital) interface. A maximum of 15 units can be cascaded together to provide up to 60 video windows.
PMVR2	Multiviewer; displays video from up to two VGA or two DVI inputs (or one of each) on a single monitor using a VGA or DVI interface. A maximum of 15 units can be cascaded together to provide up to 30 video windows.

## CERTIFICATIONS

- CE, Class B
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class B



DESKTOP STAND



### Pelco Worldwide Headquarters:

3500 Pelco Way, Clovis, California 93612-5699 USA  
**USA & Canada** Tel: (800) 289-9100 • FAX (800) 289-9150  
**International** Tel: (559) 292-1981 • FAX (559) 348-1120  
[www.pelco.com](http://www.pelco.com)

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