

# PMCQ14A Quad Monitor

## 14-INCH COLOR (NTSC)

### Product Features

- Four Video Inputs for Cameras or VCRs
- Single-Camera or Four-Camera Displays
- Camera Sequencing with Programmable Dwell Time for Each Camera
- Alarm Inputs for Each Camera
- Video Output for Recording
- Alarm Output to Trigger VCR
- 2X Digital Zoom and Freeze Functions
- Camera ID, and Date and Time Displays
- Video Loss Detection
- Optional Camera with Audio Available



Pelco's **PMCQ14A** is a versatile, easy to install, color quad monitor capable of simultaneous or sequential viewing of four video inputs.

The monitor has four BNC inputs for cameras or VCRs. Front panel buttons on the monitor select a full-screen view of any video input or a multiple-screen view of all four inputs. The multiple-screen view can be either a quad display or a picture-in-picture (PIP) display. The PIP display shows one input in full-screen mode and the other three inputs as insets.

Other features allow you to sequence camera views, zoom in on a camera, and freeze a view on the monitor screen.

Programming from the front panel lets you change the camera identification, time, and date that appear on the monitor screen.

If you wish to record what is shown on the monitor screen, you can connect a VCR to a monitor output.

If you prefer a more complete system, an optional camera designed specifically for this monitor is available. The camera includes a lens, mounting bracket, and 60-foot (18.3 m) cable. The camera can be purchased separately, or system kits are available with a monitor and 1-4 cameras.

The optional camera adds additional versatility to the monitor. The camera has a mini-DIN connector that plugs into a mating connector on the monitor. When this camera is used, this leaves the BNC video connector available for use as a looping output.

The camera includes audio and alarm features. The audio feature lets the camera capture sound as well as video, and the alarm function allows alarm contacts to be connected to the camera rather than run all the way to the monitor. The audio and alarm combination also can be used as an intercom system. The alarm lets you install a "call" button near the camera so that a person on camera can get the attention of the observer. Built-in microphones and speakers on the camera and monitor permit the person on camera and the person watching the monitor to communicate verbally with each other.

12 VDC power for the camera is supplied through the min-DIN connector.

The **PMCQ14A** makes full-color security monitoring an economical reality.



DataFAX  
SPEC: 21969  
MANUAL: 219686

C1969 / REVISED 2-03



International Standards  
Organization Registered  
Firm ISO 9001 Quality System



# TECHNICAL SPECIFICATIONS

## MODEL

PMCQ14A 14-inch color quad monitor

## RELATED PRODUCTS

CCQ1400A-KIT Camera assembly with audio (includes camera, lens, mounting bracket and 60-foot cable).

CCQCABLE-100EXT 100-foot extension cable for use with CCQ1400A-KIT only. (Two per cable run only.)

PMCQ14KIT-A System kit, consisting of one PMCQ14A quad monitor and one CCQ1400A-KIT camera assembly with audio.

PMCQ14KIT-A2 Same as PMCQ14KIT-A except supplied with two camera assemblies.

PMCQ14KIT-A3 Same as PMCQ14KIT-A except supplied with three camera assemblies.

PMCQ14KIT-A4 Same as PMCQ14KIT-A except supplied with four camera assemblies.

## MONITOR

### ELECTRICAL

Input Voltage 100 to 240 VAC, 50/60 Hz

Power Consumption 70 watts

Signal Format NTSC

Scanning System 2:1 interlace

Picture Elements 512 (H) X 492 (V)

Horizontal Resolution 350 TV lines (center)

Linearity Less than 12%

Total Geometric Distortion <3%

Audio Output 1.1 W  $\pm$ 0.2 W at 8-ohm resistive load

Pixel Format

- Single Screen 720 (H) X 480 (V)
- Quad Screen 360 (H) X 240 (V)
- PIP Screen 208 (H) X 136 (V)

Refresh Rate 30 frames per second (NTSC)

Digital Zoom 2X

OSD Character 16 X 20 bit map font (upper case alpha characters, numbers, and symbols)

Video Switching Time 1 second (during multiple alarms)

Maximum Character Display Format 45 (H) X 24 (V) (1,080 characters)

### GENERAL

Picture Tube 14-inch diagonal color

Controls Sharpness, color, brightness, contrast, tint, and volume

Character Display 8 alphanumeric characters for each camera, date, time, alarm, video loss, and freeze

Display Modes One camera, four cameras (quad), picture-in-picture (PIP), and VCR

Sequential Switching Mode Set dwell time from 1 to 30 seconds; OFF setting skips channel

Video Loss Detection All channels

Time Mode 12-hour mode with AM/PM indicator

Alarm Inputs 4, activated by N.O. or N.C. contact closure (programmable)

Alarm Output 1, common to all 4 inputs. TTL compatible (programmable for high or low output)

Alarm Beep On or off (programmable)

Automatic Alarm Reset Set reset time from 1 to 60 seconds; OFF setting defeats auto reset (programmable)

### Connectors

Video/Audio Input 4X6P Mini-DIN

Video Input 4 BNC

Video Looping 4 BNC

Monitor Output 1 BNC

VCR Input/Output 4 RCA (2 video and 2 audio)

Remote Port DB9 male

Alarm 10-position, snap-in type (push-in wire)

Impedance Termination 75 ohms or bridging for 4 video inputs (from cameras) and 1 monitor output

Dimensions 12.75" H x 13.68" W x 14.68" D (32.38 x 34.75 x 37.29 cm)

Unit Weight 28.6 lb (13 kg)

Shipping Weight 32 lb (14.5 kg)

### ENVIRONMENTAL

Operating Temperature 32° to 104°F (0° to 40°C)

Storage Temperature 4° to 158°F (-20° to 70°C)

Humidity 35% to 80%, non-condensing

## OPTIONAL CAMERA KIT (Model CCQ1400A-KIT)

### ELECTRICAL

Input Voltage 12 VDC,  $\pm$ 2 VDC

Power Consumption 2 watts

Signal Format NTSC

Scanning System 2:1 interlace

Sync System Internal

Horizontal Resolution 330 TV lines (center)

Image Size Area 0.18" (H) x 0.15" (V) (0.45 x 0.39 cm)

Picture Elements 512 (H) X 492 (V)

Electronic Iris 1/60 to 1/100,000 second

Video Output 1 Vp-p,  $\pm$ 10%, 75 ohms

Auto White Balance Electronic auto tracking

Minimum Illumination 0.9 lux at 30 IRE, f1.2

### GENERAL

Lens C/CS Mount, f2.0, 4 mm lens

Dimensions 2.00" W x 4.00" L x 2.38" H (5.08 x 10.16 x 6.05 cm)

Unit Weight 0.5 lb (0.22 kg)

Shipping Weight 1 lb (.45 kg)

### ENVIRONMENTAL

Operating Temperature 14° to 131°F (-10° to 55°C)

Storage Temperature 4° to 158°F (-20° to 70°C)

Humidity 35% to 80%, non-condensing

## CERTIFICATIONS

- CE, Class A
- UL Listed
- cUL listed to Canadian safety standards
- FCC, Class A

## RECOMMENDED MOUNT

RMA14F Rack kit for mounting a single monitor in a standard 19" W (48.26 cm) EIA rack (8 RUs). Black polyester powder coat finish.



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