



# MC3651H-2 Series Digital CCD Monochrome Camera

## LOWLIGHT™ DSS, 1/3-INCH, HIGH RESOLUTION, 570 TVL (EIA/CCIR)

### Product Features

- ■■■ LowLight™ Technology
- Sony EXview HAD™ CCD Technology
- Compact Body Style, Shorter Overall Than Most Full-Featured CCD Cameras
- 1/3-Inch Format CCD Imager
- C/CS Lens Mount
- 24 VAC/12 VDC Power
- Line Lock With Phase Adjustment
- AGC Function
- Backlight Compensation
- Horizontal Resolution of 570 TV Lines
- For Use with Direct Drive and Auto Iris Lenses or Fixed/Manual Iris Lenses
- Removable Top/Bottom Mount
- Low Profile Mounting Block
- Optional Integral Feedthrough Mount



(LENS AND MOUNT NOT SUPPLIED WITH CAMERA)

Designed and manufactured in the USA, the **MC3651H-2 Series** monochrome camera produces outstanding images in low light conditions. This phenomenal performance is attributed to Pelco engineers who designed the **MC3651H-2 Series** by combining EXview HAD™ CCD technology with extended digital slow shutter (DSS) settings.

Sony EXview HAD CCD technology enhances the low light performance of the camera, even when the DSS setting is off. When turned on, DSS intensifies the cameras sensitivity by increasing the fields of integration and slowing the picture frame rate. Available DSS settings are:

- Off to disable the DSS mode
- Four fields of integration maximum (1/15-second update rate)
- Fifteen fields of integration maximum (1/4-second update rate)
- Thirty fields of integration maximum (1/2-second update rate)

The **MC3651H-2 Series** has a horizontal resolution of 570 TV lines. Other features include electronic shutter control, phase adjustment, enhanced sharpness, long-line compensation, backlight compensation, and automatic gain control.

The **MC3651H-2 Series** also has a 1/3-inch imager, direct drive/auto iris lens connector, and adjustable back focus for C/CS lenses. Back focus adjustment is simple with the easy-to-grip thumb wheel, accessible from the top or bottom of the camera.

Smaller than most full-featured CCD cameras, the compact camera and lens fit perfectly inside one of Pelco's smaller enclosures (EH100, EH3500, EH2500, EH2020, and EH2100). Pelco has a wide selection of fixed and varifocal lenses available for the **MC3651H-2** to meet your installation requirements.

The **MC3651H-2 Series** camera is quick and easy to install, and its distinctive design is ideal for use in confined spaces. The camera has a quick-connect power connection, BNC video connector, and a removable mount adapter for top or bottom mounting.

Accessories include the PCM100 camera mount designed specifically for the **MC3651H-2 Series**. This adjustable mount has no exposed cabling or hardware. All cable is integrated in the unit making installation quick and easy. The PCM100 can be installed directly to a wall or ceiling, or it can be adapted to a standard 2 x 4-inch (5.08 x 10.16 cm) electrical box.



DataFAX  
SPEC: 21985  
MANUAL: 219856

C1985 / REVISED 10-03



International Organization  
for Standardization;  
Registered ISO 9001



U.S. Patent D-460,773

# TECHNICAL SPECIFICATIONS

## MODELS

MC3651H-2	1/3-inch high resolution digital monochrome CCD camera, 570 TVL, EIA format
MC3651H-2X	Same as MC3651H-2 except CCIR format

## GENERAL

Imaging Device	1/3-inch interline transfer EXview HAD™ CCD
Picture Elements	
MC3651H-2	768 (H) x 494 (V)
MC3651H-2X	795 (H) x 596 (V)
Sensing Area	
MC3651H-2	6 mm diagonal
MC3651H-2X	6.3 mm (H) x 4.7 mm (V)
Scanning System	
MC3651H-2	525 lines, 2:1 interlace
MC3651H-2X	625 lines, 2:1 interlace
Synchronization System	AC line lock/internal
Horizontal Resolution	570 TV lines
Iris Control	Electronic/passive
Minimum Illumination	0.07 lux, 1/60-second shutter speed or 0.003 1/2-second shutter speed, f1.2, 40 IRE, AGC on, 75% reflectance
Signal-to-Noise Ratio	50 dB
Vertical Phase	Adjustable 0° ±170°
Automatic Gain Control	Selectable by DIP switch setting
Backlight Compensation	Selectable by DIP switch setting
Signal Processing	DSP
Auto Iris Lens Type	DC/video control
Video Output	1 Vp-p, 75 ohms
Electronic Shutter	
Control Range	1/60-1/100,000 second

## ELECTRICAL

Power Requirements	18-30 VAC or 10-36 VDC
Power Consumption	Less than 3.3 watts
Power Connector	2-pin terminal strip, push-in type
Video Connector	BNC
Lens Jack	4-pin connector (miniature square)

## MECHANICAL

Lens Mount	C/CS mount (adjustable)
Camera Mount	1/4-inch UNC-20 screw, top and bottom of camera housing

## ENVIRONMENTAL

Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	14° to 158°F (-10° to 70°C)

## PHYSICAL

Weight (without lens)	0.77 lb (0.35 kg)
Shipping Weight	2 lb (0.9 kg) approximate

## CERTIFICATIONS/PATENTS

- CE, Class A
- UL Listed
- UL Listed to Canadian safety standards
- Complies with Argentina compliance requirements under Res. 92/98.
- FCC, Class B
- U.S. Patent D-460,773

## RECOMMENDED MOUNTS

BS1750/CM1750/ CM1750S/TB1750	Adjustable swivel head camera mounts for wall, ceiling, or pedestal mounting.
PCM100	Adjustable camera mount for wall or ceiling application. Includes integrated cable for easy plug and play operation. Can also be adapted to a standard 2 x 4-inch (5.08 x 10.16 cm) electrical box.

## RECOMMENDED POWER SUPPLIES

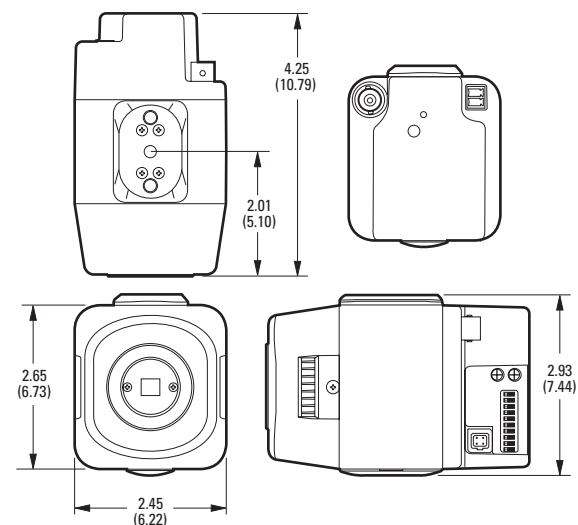
TF2000	Power supply for one 24 VAC camera, 20 VA
MCS Series	Multiple 24 VAC camera power supply, indoor
WCS Series	Single/multiple 24 VAC camera power supply, outdoor

## RECOMMENDED LENSES

13FA, FD Series	Fixed focal length lenses, 1/3-inch format. FA (manual iris); FD (auto iris, DD).
13VA, VD Series	Varifocal lenses, 1/3-inch format. VA (manual iris); VD (auto iris, DD).
13ZD, ZM Series	Motorized zoom lenses, 1/3-inch format. ZD (auto iris, DD); ZM (manual iris).

## LENS ACCESSORIES

LDC100	Auto iris drive converter. Converts a DC-drive auto iris lens to a video drive auto iris lens. Compatible with all lens size formats.
--------	---



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

**NOTE:** For outdoor camera installations, a Pelco enclosure is recommended.



### Pelco Worldwide Headquarters:

3500 Pelco Way, Clovis, California 93612-5699 USA

**USA & Canada** Tel: (800) 289-9100 • FAX (800) 289-9150 • DataFAX (800) 289-9108

**International** Tel: (559) 292-1981 • FAX (559) 348-1120 • DataFAX (559) 292-0435

[www.pelco.com](http://www.pelco.com)

EXview HAD™ is a trademark of the Sony Corporation.

LowLight™ is a trademark of Pelco.

Specifications subject to change without notice.

©Copyright 2003, Pelco. All rights reserved.