



MC3710H Series CCD Monochrome Camera

1/3-INCH, HIGH RESOLUTION, 570 TVL (EIA/CCIR)

Product Features

- 1/3-Inch Format CCD Imager
- 570 TV Lines Resolution
- 0.07 Lux Sensitivity
- UTP Output Standard
- Setup Service Connector
- C/CS Lens Mount
- Autosensing DC/Video Auto Iris Drive
- Electronic Shutter Control (ESC)
- Automatic Gain Control (AGC)
- Phase Adjustable Line Lock
- GenLock (external synchronization)
- Backlight Compensation
- Internal Top/Bottom Mount
- Low-Voltage and High-Voltage Models
- Optional Integral Feedthrough Mount



**CAMERA MOUNTED ON
PCM150 CAMERA MOUNT**

(LENS AND MOUNT NOT SUPPLIED WITH CAMERA)

The **MC3710H Series** is a high resolution monochrome camera with 570 TV lines.

The **MC3710H Series** camera is quick and easy to install. The camera has a quick connect power connection, UTP output (through an RJ-45 connector), BNC video connector, service connector (handy for attaching a local video test monitor during camera setup) and internal mount for either top or bottom mounting.

The camera features automatic gain control, electronic shutter control, automatic backlight compensation, flickerless mode, line lock with phase adjust, and GenLock (for synchronizing a multiple camera installation). To adjust one of the camera's fine-tuning features, just use the corresponding DIP switch on the back panel of the camera.

The **MC3710H Series** camera also includes a 1/3-inch imager, accepts (and autosenses) DC and video drive auto iris lenses, and has adjustable back focus to accommodate C or CS lenses. Back focus adjustment is easy with the lockable thumb wheel, accessible from the top or bottom of the camera. This camera is available in both high voltage and low-voltage models.

Accessories include the PCM150, a Pelco camera mount designed specifically for the **MC3710H Series**. This adjustable, well-designed mount has no exposed cabling or hardware. All cable is integrated in the unit, making installation quick and easy. The PCM150 can be installed directly to a wall or ceiling or adapted to most standard electrical boxes worldwide.



DataFAX
SPEC: 22918
MANUAL: 229136

C2918 / NEW 10-03



TECHNICAL SPECIFICATIONS

MODELS

| | |
|------------|---|
| MC3710H-6 | 1/3-inch high resolution monochrome CCD camera, 570 TVL, 24 VAC or 12 VDC, EIA format |
| MC3710H-6X | Same as MC3710H-6 except CCIR format |
| MC3710H-7 | 1/3-inch high resolution monochrome CCD camera, 570 TVL, 98-260 VAC, EIA format |
| MC3710H-7X | Same as MC3710H-7 except CCIR format |

GENERAL

| | |
|----------------------------|---|
| Imaging Device | 1/3-inch interline transfer CCD |
| Picture Elements | |
| EIA | 768 (H) x 494 (V) |
| CCIR | 752 (H) x 582 (V) |
| Sensing Area | 6 mm diagonal |
| Scanning System | |
| EIA | 525 lines, 2:1 interlace |
| CCIR | 625 lines, 2:1 interlace |
| Synchronization System | AC line lock/internal, GenLock (external) |
| Horizontal Resolution | 570 TV lines |
| Iris Control | Selectable on/off |
| Electronic Shutter Range | |
| EIA | 1/60-1/100,000 second |
| CCIR | 1/50-1/100,000 second |
| Auto Iris Lens Type | DC/video drive (AutoSense) |
| Minimum Illumination | 0.07 lux, f1.2, 40 IRE, AGC on, 75% reflectance |
| Signal to Noise Ratio | >50 dB |
| Vertical Phase | Adjustable $\pm 120^\circ$ |
| Automatic Gain Control | On/off switchable |
| Electronic Shutter Control | On/off switchable |
| Backlight Compensation | On/off switchable |
| Flickerless Mode | On/off switchable |
| Internal Sync | On/off switchable |
| GenLock-High Resolution | On/off switchable |
| Signal Processing | Digital Signal Processing (DSP) |
| Video Output | 1 Vp-p, 75 ohms |
| Gamma Correction | 0.45 |

ELECTRICAL

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|--------------------|--------------------------------------|
| Power Requirements | |
| MC3710H-6, H-6X | 20.4-27.6 VAC or 10.2-13.8 VDC |
| MC3710H-7, H-7X | 98-260 VAC |
| Power Consumption | Less than 4 watts |
| Power Connector | |
| MC3710H-6, H-6X | 2-pin terminal strip |
| MC3710H-7, H-7X | Integral power cable |
| Video Connector | 2 BNCs |
| | 1-Video |
| | 1-Video-GenLock high resolution only |
| UTP Connector | RJ-45 |
| Lens Jack | 4-pin connector (miniature square) |

MECHANICAL

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

ENVIRONMENTAL

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|-----------------------|-----------------------------|
| Operating Temperature | 14° to 122°F (-10° to 50°C) |
| Storage Temperature | 14° to 158°F (-10° to 70°C) |
| Operating Humidity | 20% to 80%, non-condensing |
| Storage Humidity | 20% to 90%, non-condensing |

PHYSICAL

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|-----------------------|--|
| Dimensions | 4.8" L x 2.9" W x 2.6" H (12.3 x 7.2 x 6.7 cm) |
| Weight (without lens) | 0.8 lb (0.4 kg) approximate |
| Shipping Weight | 2 lb (0.9 kg) approximate |

CERTIFICATIONS

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

ACCESSORIES

| | |
|----------------------|----------------|
| Supplied Accessories | Lens mount cap |
|----------------------|----------------|

RECOMMENDED MOUNTS

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|----------------------------------|--|
| PCM150-6 | Adjustable camera mount for wall or ceiling application. Includes integrated cable for easy plug and play operation. Can also be adapted to most standard electrical boxes worldwide. 12 VDC/24 VAC input. |
| PCM150-7 | Same as PCM150-6 except 98-260 VAC input. |
| BS1750/CM1750/ CM1750S/TB1750 | Adjustable swivel head camera mounts for wall, ceiling or pedestal mounting. |
| CM1450 | Adjustable swivel head camera mount for wall mounting. |
| CM4400/EM4400 | Adjustable swivel head or tilt-table camera mounts for wall or ceiling mounting. |

RECOMMENDED POWER SUPPLIES

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|------------|---|
| 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

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|-----------------|--|
| 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) |
| 13ZM, ZD Series | Motorized zoom lenses, 1/3-inch format: ZM (manual iris), ZD (auto iris, DD) |

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



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