



CC1400HZ16-* Series Digital CCD Color Camera

1/4-INCH, HIGH RESOLUTION, 16X ZOOM LENS, 470 TVL (NTSC)

Product Features

- Compact Body Style
- 1/4-Inch Format CCD Imager
- High Resolution
- Built-in 16X Optical Zoom Lens with 8X Digital Zoom
- Horizontal Resolution of 470 TV Lines
- Digital Signal Processing
- AC Line Lock (24 VAC only)
- Auto White Balance
- RS-422 Interface (via MRD1400HZ16)
- Auto Iris, Auto Focus
- Controller Interface Available



The **CC1400HZ16-* Series** DSP Color CCD Camera combines high resolution imaging and a built-in lens in a compact package. This camera uses a 1/4-inch color CCD (charged coupled device) interline transfer sensing element. The built-in lens has a maximum zoom ratio of 128X (16X optical and 8X digital).

The telephoto (zoom in), white balance, and wide angle (zoom out) controls are push buttons located on the back of the camera. When you press and hold the telephoto button, the camera reaches maximum optical magnification (16X). If you continue to press and hold the telephoto button, the camera automatically goes into 8X digital zoom. The white balance control renders colors based on the amount of white in the scene. Once you set the white balance, the camera holds the setting until you adjust the white balance again.

Additional adjustments can be made by connecting the camera to an MRD1400HZ16 camera control interface. The RS-422 interface can be used with keyboard controllers or matrix switchers (see Optional Accessories).



MRD1400HZ16 CONTROL WITH CAMERA AND CM1750 MOUNT



DataFAX
SPEC: 21960
MANUAL: 219606 (CC1400HZ16 Series), 219736 (MRD1400HZ16)

C1960 / REVISED 10-03



International Organization
 for Standardization;
 Registered ISO 9001



TECHNICAL SPECIFICATIONS

MODELS

CC1400HZ16-2	1/4-inch high resolution, color camera with 128X zoom lens, NTSC, 24 VAC
CC1400HZ16-4	1/4-inch high resolution, color camera with 128X zoom lens, NTSC, 12 VDC

GENERAL

Imaging Device	Color 1/4-inch interline transfer CCD
Signal System	NTSC
Pixels	768 (H) x 508 (V)
Scanning System	525 lines, 2:1 interlace
Synchronization System	Internal synchronization
12 VDC	External AC line lock
24 VAC	470 TV lines
Horizontal Resolution	>46 dB
Signal-to-Noise Ratio	1.2 lux, f1.2, 40 IRE, AGC on, 75% reflectance
Minimum Illumination	Automatic
Gain Control	Automatic (1/60-1/10,000)
Exposure	Manual
White Balance	3.9 to 63 mm
Focal Length	16X optical zoom, 8X digital zoom (128X total)
Zoom Ratio	0.01m (wide angle), 1.20m (telephoto)
Minimum Focus Distance	Auto focus
Focus Mode	Automatic
Iris Control	RS-422 cable interfaced with PC
Camera Control	

ELECTRICAL

Power Requirements	24 VAC, 60 Hz
CC1400HZ16-2	12 VDC, 60 Hz
CC1400HZ16-4	4 watts maximum (camera only)
Power Consumption	Composite output, 75 ohms terminated
Video Output	

ENVIRONMENTAL

Operating Temperature	32° to 113°F (0° to 45°C)
Storage Temperature	32° to 140°F (0° to 60°C)
Humidity	0% to 80% relative humidity

PHYSICAL

Construction	Aluminum case
Finish	Neutral gray
Unit Weight	
CC1400HZ16-2	0.75 lb (0.34 kg)
CC1400HZ16-4	0.95 lb (0.43 kg)
Shipping Weight	2 lb (0.90 kg) approximate

CERTIFICATIONS

- UL Listed
- FCC, Class B

RECOMMENDED MOUNTS

CM1750	Universal wall, ceiling, or pedestal camera mount with adjustable swivel head
CM1750S	Same as CM1750 except shorter

RECOMMENDED POWER SUPPLIES

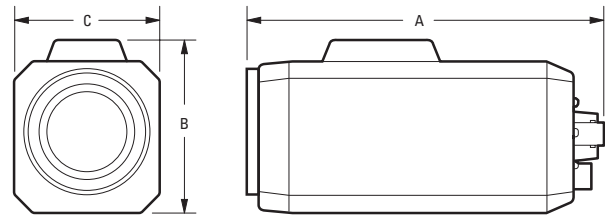
(For use with 24 VAC models only)

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

OPTIONAL ACCESSORIES

MRD1400HZ16 Camera interface control that can be mounted directly to a wall, or installed in a DF5, DF8A, or EH3512 Series enclosure. Mount adapters and interface cable supplied. The MRD1400HZ16 can be used with the following controllers and matrix switchers:

Controllers (direct mode only)	MPT9500 CM9760-KBD Series KBD200A KBD300A
Matrix Switchers (configured for D or P protocols only)	CM6700 Series CM6800 Series CM9740 Series CM9760 Series



	A	B	C
C1400HZ16-4	4.42 (11.20)	2.36 (5.99)	2.27 (5.77)
C1400HZ16-2	5.63 (14.30)	2.36 (5.99)	2.27 (5.77)

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

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



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