

CCD 100

Professional Black and White CCD Camera

The CCD-100 series cameras are designed to give high-end black and white images at an affordable price. The cameras' automatic controls provide exceptional performance from high light level to low light level images. Adjustable back panel controls include gain, black level, enhance, polarity reversal, gamma, and shutter. An optional remote control conveniently brings back panel controls to desk-top level. The CCD-100S can be integrated for approximately 3 seconds, while additional sensitivity can be obtained with the spot-mask circuit in the CCD-100.



Above: Dage-MTI CCD100. Lens not included.

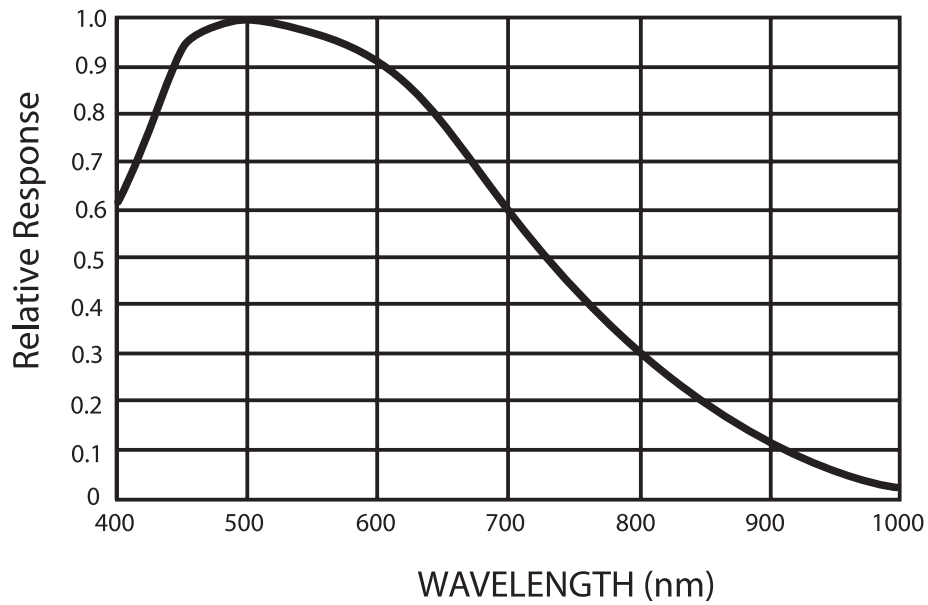
FEATURES AND BENEFITS

Real-Time Video Output	Operation at 30 fps
Automatic Operation	Provides exceptional images from high light level to low light level scenes
Adjustable Back Panel Controls	Offers variable controls for full image enhancement
Full Range of Image Enhancement	Auto/manual gain Automatic shutter Auto/manual black level Enhance control for picture sharpness Gamma – selectable linear or CRT compensation Polarity reversal
Optional Remote Control	Conveniently brings back panel controls to desk-top level
On-Chip Integration	Allows for increased sensitivity under difficult lighting conditions. Can be used with stand-alone Investigator or various computer frame grabbers
Spot-Mask Circuit	Economical alternative to cooling for longer integration times

(continued)

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SPECTRAL RESPONSE



Dage-MTI CCD100 Response Curve

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SPECIFICATIONS

Pick-up Device	1/3" Interline Transfer CCD	
CCD Image Size	4.8mm x 3.6mm	
Shading	<5% overall	
Signal-to-Noise Ratio	>57dB	
Active Picture Elements	RS-170 (CCD 100)	CCIR (CCD 100E)
Picture Element Size	768 (H) x 494 (V)	752 (H) x 582 (V)
Resolution	6.4um x 7.5um (H) 570 TVL (V) 350 TVL	6.5um x 6.3um 560 TVL 450 TVL
Vertical Sweep Rate	59.94 Hz	50 Hz
Horizontal Sweep Rate	15,734 Hz	15,625 Hz
Minimum Illumination (f/1.2 lens)	.007 lux (.0007 fc) for 20% video output	
Video Output	BNC	
Enhancement	0dB to +8dB @ 5 mHz	
Electronic Exposure Range	1/60 to 1/50,000 sec.	
Back Focus Adjustment	±1.9mm	
Lens Mount	"C" or "CS"	
Operating Temperature	0°C to +40°C	
Weight	1 lb.	
Dimensions	2-1/4" (W) x 2-1/2" (H) x 5" (L)	
Input Voltage	120 or 220 VAC, 50/60 Hz	
Input Power	2.4 watts/12VDC, 200 mA	
Back Panel Controls	Gain, black level, enhance, shutter, gamma, polarity	
Options	Remote control of gain, black level, enhance, gamma Investigator (for increased sensitivity) 1/3" optical coupler	

* The usable integration time of the CCD-100S is approximately 64 frames before some objectionable spots begin to appear. The usable integration time of the CCD-100 is in excess of 2048 frames without objectionable spots.



Dage-MTI (219) 872-5514

Call for additional product information or free product demos.

Visit online at www.dagemti.com.