

# DC 220

## Single Chip Color Camera

The DC-220 single-chip color camera and unique remote control provides high resolution imaging and ultimate video enhancement. An affordable high performance camera, the DC-220 is excellent for all forms of color imaging, including fluorescence or low light level scenes. The built-in frame memory allows the user to increase sensitivity by integrating up to 128 frames without the need of an external frame grabber. A one-push button on the remote control enables the user to easily freeze the image for further viewing or teaching.



Above: Dage-MTI DC 220 and control panel

### FEATURES AND BENEFITS

Real-Time Video Output	Operation at 30 fps
High Performance	<ul style="list-style-type: none"> <li>½" Interline w/micro lenses</li> <li>Y/C output for sharper images</li> <li>60dB signal-to-noise for low noise images</li> <li>10-Bit DSP</li> <li>On-screen menu display</li> </ul>
Remote Control	Enables easy access to on-screen display adjustments
Freeze Control	Easily "freeze" your image with the simple push of a button
Built-In Frame Memory	Does not require external frame grabber for freeze or extended exposure functions
Extended Exposure Control	<ul style="list-style-type: none"> <li>Allows for exceptional image results even under difficult lighting conditions</li> <li>Automatic integration up to 128 frames</li> </ul>
Electronic Zoom	Variable up to 2X for increased magnification
Shutter	Electronic shutter to 1/120,000 sec for wide range of light levels

(continued)

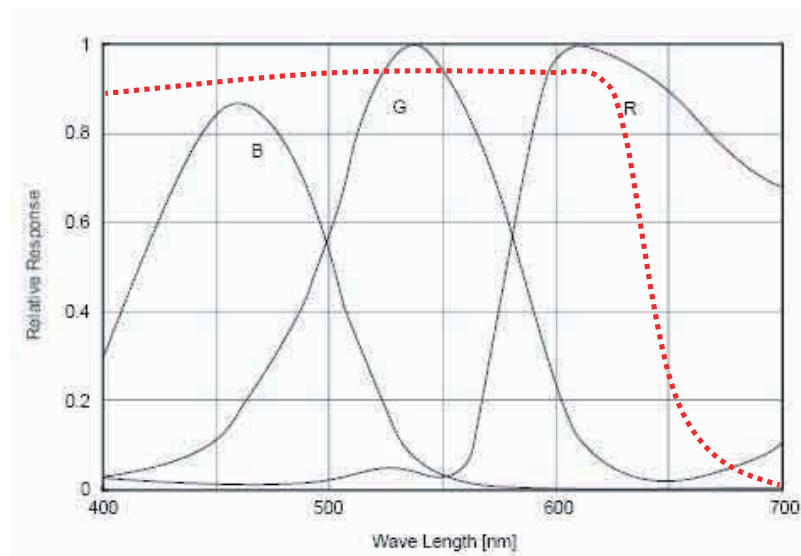
# DC 220 Single Chip Color Camera

## FEATURES AND BENEFITS

(continued)

- Scan Reverse Provides ability to reverse horizontal and vertical scan  
Corrects for mirror image or upside down image
  
- Gamma Control Provides setting of linear for quantitative measurements  
or compensation for CRT display to improve low contrast  
images, Extended cable lengths available

## SPECTRAL RESPONSE



Note: The DC220 has an "IR cut" color balancing filter placed in front of the sensor. The response is superimposed onto the RGB pixel curves with the dotted line.

## DC 220 Single Chip Color Camera

### SPECIFICATIONS

CCD Sensor	½" Interline w/micro lenses
Effective Pixels	768 (H) x 494 (V) – NTSC
Sensitivity	0.4 lux (0.004 lux sense-up)
Horizontal Resolution	480 TVL
Vertical Resolution	375 TVL – NTSC
Signal-to-Noise Ratio	52dB Min, 60dB Typical
AGC Range	18dB
Digital Processing	10 Bits
Edge Enhancement	Horz & Vert (Auto)
Memory Back-Up	EEPROM (non volatile)
Auto White Balance	3200°K to 10,000°K
Video Output	1Vpp, 75Ω composite and Y/C
Gamma Correction	.45 and 1.0
Electronic Shutter	Auto from 1/60 to 1/120,000 sec.
Manual Shutter	16 values between 1/60 and 1/12,000
Lens Mount	"C" or "CS"
Camera Mount	¼"20, Top and Bottom Mount
Dimensions	
Camera	3" (W) x 2" (H) x 4.5" (L)
Remote control	2.3" (W) x 1.1" (H) x 3.6" (L)
Weight	11 oz (312 grams)
Power	3W (12VDC, 250mA)
Operating Temperature	0°C to +50°C
Features	OSD (On-Screen Display) Remote Control Auto Frame Integration up to 128 frames (sense-up) Zoom Feature Freeze Pos/Neg Image Selection Horizontal and Vertical Scan Reverse On-Screen Title (12 characters) BLC (Back light compensation)



**Dage-MTI (219) 872-5514**

Call for additional product information or free product demos.

Visit online at [www.dagemti.com](http://www.dagemti.com).