HITACHI

Progressive scan, near infrared
Monochrome CCD Camera

KP-F2 A/B

Near Infrared Progressive Scan Camera KP-F2

The KP-F2 features a 1/3 inch progressive scan microlens IT CCD that has a spectral response that extends into the near infared region. Peak sensitivity occurs at approximately 760 nanometers, while useful sensitivity extends above 1000 nanometers. The use of progressive scanning provides improved vertical resolution and reduces horizontal smear in moving objects. The use of square pixels can reduce processing time in vision systems. Designed for use in the medical, microscope, and machine vision markets, the KP-F2 extends the range of imaging into the near IR region. A multiple step electronic shutter with a range up 1/10,000 second can be selected to "stop action" on moving objects. With the field-on-demand function, the start of an exposure and the length of the exposure can be accurately controlled. The video is immediately output at the end of the exposure. Using the dual outputs, the camera can output double speed video at 60 frames per second.

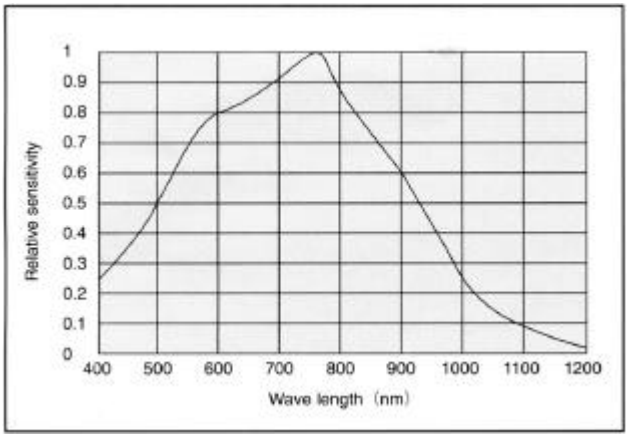
Specifications

Imager: 1/3 inch Frame Transfer CCD
Pixels: 658 x 496
Cell Size: 7.4 x 7.4
Resolution: 500 TV lines Horizontal
485 TV lines Vertical
Sensitivity: 30 lux f4.0 3200 K
Min. Illum: 0.3lux at f1.4
S/N: 50 db
Gain: Fixed or AGC

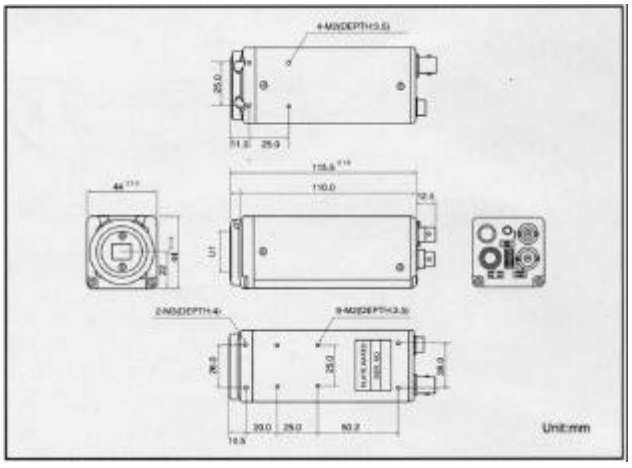
Sync: Internal or External
Gamma: 0.45 or 1.0 Selectable
Shutter: 1/30 - 1/10,000 second
Trigger: Field-on-Demand
Output: Single or Dual 1.0 Vp-p
Power: 12 Volts DC
Size: (W x H x D) 44 x 44 x 110 mm
Weight: 200 grams
Lens: C-Mount

KP-F2 Spectral Response

The graph shows the relative spectral response characteristics of the KP-F2. The vertical axis indicates relative sensitivity, while the horizontal axis indicates wavelength in nanometers.



Dimensions



Caution : To ensure safe operation, please read the instruction manual before using

Specifications subject to change without notice.

For ordering information contact

Vision 1
517 East Aspen Street
Bozeman, MT 59715

Voice: (406) 585-7225
Fax : (406) 586-0641
http://www.vision1.com
vision1@vision1.com