

# Near Infrared Camera KP-M3R



## Near Infrared Camera KP-M3R

- Near IR Sensitivity Above 900 nm
- Peak Sensitivity at 510 nm
- Compact Rugged Design
- High Resolution
- Multiple Step Electronic Shutter
- Internal or External Sync Modes
- Frame or Field Integration
- Field-on-Demand Mode

## Specifications

Imager: 1/3 inch Interline transfer CCD  
Sensing Area: 4.8 x 3.6 mm  
Pixels: 768x494  
Cell Size: 6.35 x 7.4  
Resolution: 570 TV lines  
Sensitivity: 200Lux f4.0 3200K  
Min. Illum. 0.3 lux at f1.4  
S/N: 56 db  
Gamma: 0.45 or 1.0 selectable  
Integration: Field or Frame Selection  
AGC: On / Off  
Shutter: 1/60 - 1/10000  
Sync: Internal / External HD / VD drive  
Output: RS-170 1.0 V p-p  
Power: 12 volts DC 180ma  
Size: ( W x H x D ) 44 x 29 x 72 mm  
Weight: 120 grams  
Lens: C - Mount

The **KP-M3R** is a 1/3 inch CCD monochrome camera that is useful into the near infrared spectrum. Peak sensitivity of the camera occurs at 640 nanometers compared with a conventional camera whose peak sensitivity occurs at 510 nanometers. Useful sensitivity of the **KP-M3R** extends above 900 nanometers, making it useful for applications ranging from microscopy to image processing systems. A high horizontal resolution of 570 TV lines and a S/N of 56 db provide detailed images with low noise, in a compact rugged package. Standard features include a multiple step electronic shutter, internal or external synchronization, field or frame integration mode, and a field-on-demand function. Using the field-on-demand feature the timing and length of an exposure can be accurately controlled. The field-on-demand can function in the one trigger, two trigger, fixed shutter, and external shutter modes of operation, allowing easy integration into machine vision systems.

## KP-M3R Spectral Response

The graph below shows the relative spectral response characteristics of the **KP-M3R**. The vertical axis indicates relative sensitivity, while the horizontal axis indicates wavelength in nanometers.

