

# Ultra Compact Analog Progressive Scan KP-F38



## 1/3 Inch Ultra Compact Progressive Scan Camera KP-F38

- Ultra Compact Rugged Design
- Single Output Connection
- 80 Frames / Second
- Multiple Step Electronic Shutter
- Internal or External Sync Modes
- Fixed / Manual / Auto Gain Mode
- Frame-on-Demand Mode
- External Mode Selection Switches

### Specifications

|                   |   |
|-------------------|---|
| Imager:           | 1/3 inch Interline type Progressive Scan CCD                            |
| Pixels:           | 659 x 494   |
| Cell Size:        | 7.4 x 7.4   |
| Aspect Ratio:     | 4 : 3   |
| Scan Mode:        | Progressive   |
| Resolution:       | 500 TV lines  |
| Min. Illum:       | 1.0 lux at f1.4   |
| S / N:            | 50 db   |
| Gamma:            | 1.0   |
| Gain:             | Manual, Fixed, or AGC   |
| Shutter:          | 8 steps 1/80 - 1/66000  |
| Sync:             | Internal / External   |
| Trigger:          | Frame-on-Demand 3 modes<br>One Trigger, Fixed Shutter,<br>Reset Control |
| Output:           | 80 F/s 1.0 Volts p-p  |
| Power:            | 12 volts DC 2.4 watts   |
| Size: (W x H x D) | 29 x 29 x 38.5 mm   |
| Weight:           | 55 grams  |
| Lens:             | C-Mount   |

Designed for use in factory automation and industrial vision systems, the **KP-F38** features an ultra compact size, square pixels, and progressive scan to provide high vertical resolution of moving objects. Featuring a single output connection, the **KP-F38** operates at 80 frames per second, with 500 lines of horizontal resolution. Standard features include external switch selection for all modes of operation, with an eight step electronic shutter featuring a maximum speed of 1/66,000 second, internal or external sync modes, and fixed, manual or automatic gain control. A frame-on-demand function is available for capturing moving objects at a desired timing. In the one trigger mode of operation, the rising edge of the trigger pulse starts the exposure, the duration of the trigger pulse controls the integration time, and the falling edge of the trigger pulse resets vertical sync and delivers the triggered image. The camera can also be operated in a fixed shutter mode or a reset control mode.

### Frame-on-Demand Mode of Operation

