

# MegaPixel SXGA Progressive Scan KP-F140F

**IEEE-1394.b  
Firewire® 800**



## 1/2 Inch Megapixel SXGA Progressive Scan KP-F140F

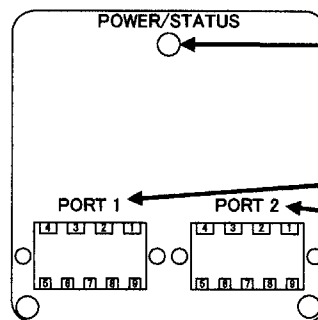
- Compact Rugged Design
- IEEE-1394.b (Firewire 800) Output 2 Ports
- 15 Frames / Second
- SXGA 1360 x 1024 Resolution
- Multiple Step Electronic Shutter
- Fixed / Manual / Auto Gain Mode
- Frame-on-Demand Mode

### Specifications

Imager: 1/2 inch Interline type Progressive Scan CCD  
 Pixels: 1392 x 1040  
 Cell Size: 4.65 x 4.65  
 Aspect Ratio: 4 : 3  
 Scan Mode: Progressive  
 Resolution: SXGA 1360 x 1024  
 Min. Illum: 5 lux at f1.4  
 Gamma: 1.0 or LUT  
 Gain: Manual, Fixed, or AGC  
 Shutter: 8 steps 1/60 - 1/100000  
 Trigger: Frame-on-Demand 3 modes  
           One Trigger, Fixed Shutter, Reset Control  
 Output: IEEE-1394.b (Firewire 800)  
           IIDC1394 Ver,1.31 800 / 400 / 200 Mbps  
 Image Format: Mono 8 / Mono 16  
 Power: 12 volts DC 4.1 watts  
 Size: (W x H x D) 44 x 44 x 54 mm  
 Weight: 130 grams  
 Lens: C-Mount

Designed for use in factory automation and industrial vision systems, the **KP-F140F** features a compact size, square pixels, and progressive scan with megapixel resolution to provide high vertical resolution of moving objects. Featuring a IEEE-1394.b output the **KP-F140F** can operate at 15 frames per second, with SXGA resolution of 1360 x 1024 pixels. Two IEEE-1394.b output ports are provided on the rear of the camera allowing loop through connections with another camera. The camera is compliant with Digital Camera Specification IIDC1394 Ver,1.31, and can operate at 800 / 400 / 200 Mbps, with an image format of Mono 8 or Mono 16. Standard features include an eight step electronic shutter featuring a maximum speed of 1/100,000 second, selectable gamma with LUT (look up table) 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. A CD ROM with the driver and viewer programs is provided with the camera.

### REAR PANEL



LED status

LED	Green	Yellow
Power ON	light on	light off
Transmission	blink off	blink on
Transmission pause	blink on	blink off

② IEEE1394b connector

③ IEEE1394b connector

Signal connection to IEEE 1394.b(PORT1/PORT2)

1	TPB-	SERIAL DATA
2	TPB+	
3	TPA-	
4	TPA+	
5	TPA(R)	SHIELD GND
6	VG	POWER GND
7	I/O	*Programmable I/O
8	VP	POWER +12V
9	TPB(R)	SHIELD GND

Viewer Soft Setting(PORT1/PORT2)

*Programmable I/O	In	Out
Trigger	○	○
VD	○	○
Strobe (Flash)	x	○