

KP-FD140F KP-FD32F



IEEE1394.b Interface

- The IEEE1394.b interface allows direct high speed data transfer between the camera and the PC using a small 8 conductor cable.
- The 800 Mbps transfer speed of the IEEE-1394.b interface permits higher frame rates for high resolution cameras.
- Multiple cameras can share the IEEE-1394.b bus using a simple daisy chain connection.

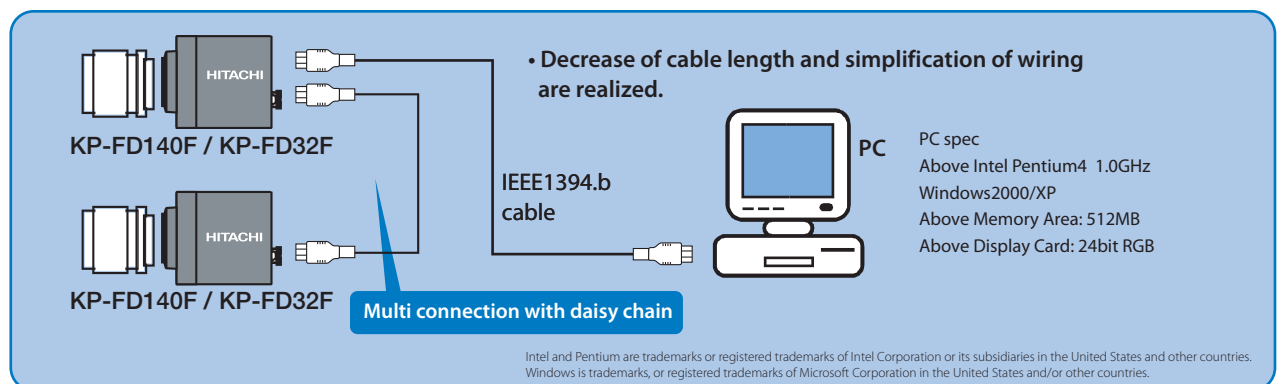
The lineup

- **KP-FD140F** 1.45 million pixels for high resolution (SXGA) at 15 frames per second. Designed for High Resolution color inspection.
- **KP-FD32F** 330,000 pixels for standard resolution (VGA) at a high frame rate of 60 frames per second. Designed for high speed inspection.

Versatile features support many applications

- Electronic shutter
- Hardwired Trigger
- White balance
- Daisy chain
- External sync
- Partial scan
- Independent 6 color masking
- Remote control

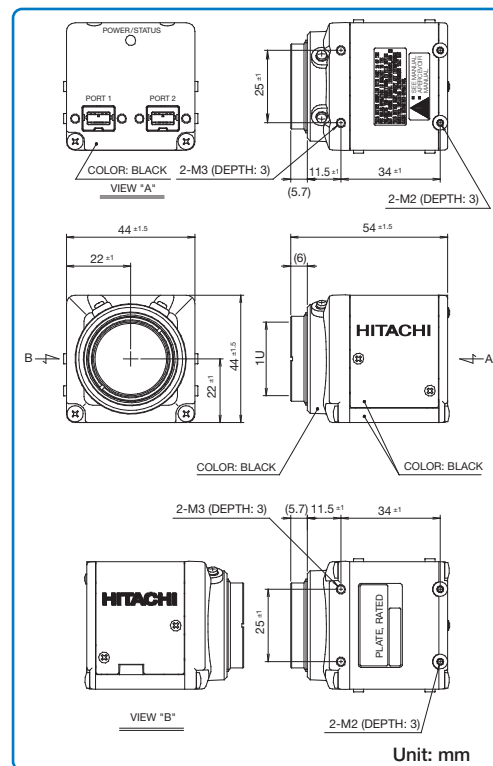
Connection example



Main Specifications

	KP-FD140F	KP-FD32F
Imaging device	1/2-inch interline type all pixel read-out system CCD	
Total pixels	1434(H) x 1050(V)	692(H) x 504(V)
Effective pixels	1392(H) x 1024(V)	656(H) x 492(V)
Pixel pitch	4.65 μm(H) x 4.65 μm(V) [square lattice]	9.9 μm(H) x 9.9 μm(V) [square lattice]
Scanning system	Progressive scan	
Synchronization	Internal/external (automatic switching)	
Picture signal output		
Interface	IEEE1394.b (FireWire800)	
Protocol	IEEE1394-based Digital Camera Specification Version 1.31 Conformity	
Transmission speed	800 / 400 / 200 Mbps	
Output data form	RGB24 / YUV(4:2:2) / Raw8 / Raw16	
Output picture size	1392(H) x 1024(V) 1280(H) x 960(V) 1024(H) x 768(V) 800(H) x 600(V) 640(H) x 480(V)	656(H) x 492(V) 640(H) x 480(V)
Frame rate	15 frames/second (RGB24, 1392(H) x 1024(V))	60 frames/second (RGB24, 656(H) x 492(V))
The minimum photographic subject illumination	25 lx (F1.4, maximum gain)	20 lx (F1.4, maximum gain)
Gain	Automatic / manual (0 dB to 18dB)	
Electronic shutter speed	Automatic(AES) / manual operation(VARIABLE) 1/100000 second to 10 second	
External trigger		
Mode	Fixed shutter (Mode 0), one trigger (Mode 1)	
Input	1394 Cable course (Software trigger), Our company original system (Hardware trigger)	
Current consumption	Approx. 3.8 W (DC+12 V)	Approx. 3.6 W (DC+12 V)
Automatic picture level control (ALC)	Picture level adjustment is possible	
White balance control	ATW / MANUAL / One-push	
Gamma	OFF / LUT	
Color masking	OFF / ON (6 color independence masking)	
Color saturation	Adjustment is possible.	
Sharpness	Adjustment is possible.	
Brightness	Adjustment is possible.	
Daisy chain	Connection is possible.	
Lens mount	C mount (With a flange back adjustment mechanism)	
Power supply	DC +8 V to +30 V (It supplies from an IEEE1394 cable)	
Ambient		
Operating	0 to +40 °C (+32 to ; 104 °F), 30 to 80%RH * If operated continuously, be sure to use at less than +40 °C(104 °F) for long term stable performance.	
Storage	-10 to +50 °C (+14 to +122 °F), 20t o 90% RH	
Vibration endurance	less than 68.65 m/s ² (It is the XYZ direction 30 minutes each about 10 to 200Hz) *Please do not add a strong vibration over a long time	
Shock endurance	less than 490.3 m/s ² (XYZ direction)	
External dimensions	44(W) x 44(H) x 54(D) mm (A lens is removed.)	
Mass	Approx. 130 g (A lens is removed.)	
Standard Accessory	Camera body CD-ROM (operation manual, driver software)	

Dimensions



Rear View



Optional Accessory

IEEE1394 Cable
Tripod Adaptor

CAUTION: To ensure safe operation, please read the instruction manual before using this product.

These Specifications are subject to change without notice.