

Hitachi CCD Camera

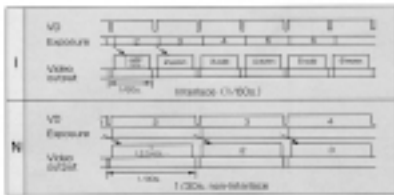
Hitachi KP-F3/KP-F3W

Features

- Bijou look with light weight
- 1/3" CCD of progressive scanning system
- Full frame shutter
- High sensitivity, high resolution and high performance
- A variety of functions including multi-step electronic shutter, external HD/VD pulses, and Field-On-Demand function
- Most suitable for use with an image processing system by the use of CCD using square shape pixels

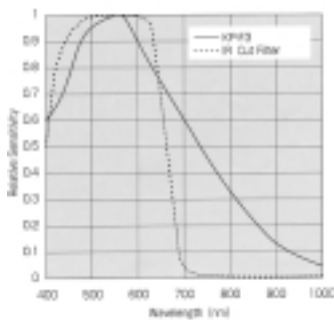
Frame Output

The signal is read out is 1/30th second progressive scan for the KP-F3 and 1/60th second for the KP-F3W. (N=Non-interlace)



Spectral Sensitivity Characteristics

With the build-in IR cut filter, the KP-F3/F3W offers the spectral characteristic shown by the dotted lines. When the IR cut filter is removed, the spectral characteristic of up to infrared region is obtained.



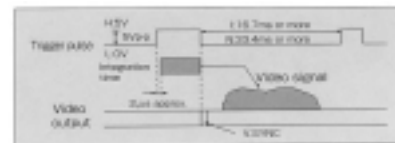
Field-On-Demand Function

With the Frame/Field-On-Demand function, moving objects can be captured at an optional timing capture time.

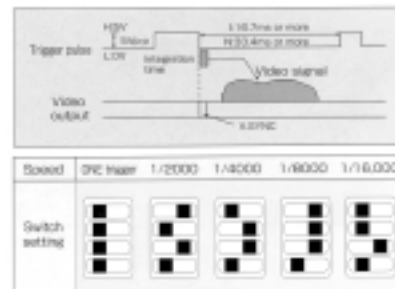
One trigger mode

When one trigger pulse is supplied, exposure starts at the pulse rising edge and ends at pulse falling edge. The V-Sync pulse is reset and video output is obtained immediately.

Fixed shutter mode



When one trigger pulse is supplied, exposure starts at the rising edge of the input pulse. Exposure time is fixed, and set by the electronic shutter switches on the camera video signals are delivered immediately after exposure time ends.



Camera Specification

Item	KP-F3	KP-F3W
Imaging Device	1/3" Interline CCD of progressive scanning system	
No. of Effective Pixels	647 (H) x 485 (V)	
Size of Pixel	7.4 (H) x 7.4 (V) um	
Horizontal Resolution	500 TVL	
TV System	EIA progressive scanning system	
Video output	2:1 Interlace – 1 / 60s Non-interlace – 1 / 30s	2:1 Interlace – 1 / 120s Non-interlace – 1 / 60s
S/N Ratio	56dB	
Gamma	0.45 / 1.0	
Electronic Shutter	1 / 60s to 1 / 8,000s	1/120s to 1 / 16,000s
Trigger	Frame / Field-on-demand	
Power Supply	12V DC	
Lens Mount	C-mount	
Dimensions	29 (W) x 29 (H) x 62(D) mm	
Weight	100g approx.	

Ordering Information

KP-F3

1/3" Progressive Scan CCD Camera

KP-F3W

1/3" Double Speed Progressive Scan CCD Camera