Ultra Compact Analog Progressive Scan KP-F33

1/3 Inch Ultra Compact Progressive Scan Camera KP-F33

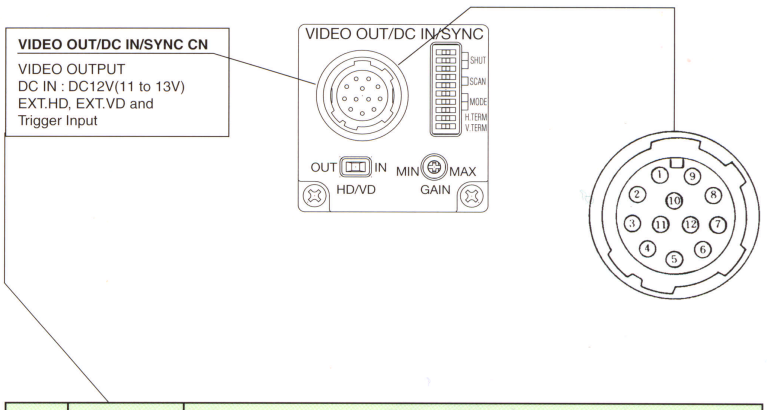
- **Ultra Compact Rugged Design**
- **Single Output Connection**
- **30 Frames / Second**
- **Multiple Step Electronic Shutter**
- **Internal or External Sync Modes**
- **Fixed / Manual / Auto Gain Mode**
- **Frame-on-Demand Mode**
- **External Mode Selection Switches**

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: 0.7 lux at f1.4
S / N: 50 db
Gamma: 1.0
Gain: Manual, Fixed, or AGC
Shutter: 8 steps 1/30 - 1/50000
Sync: Internal / External
Trigger: Frame-on-Demand 3 modes One Trigger, Fixed Shutter, Reset Control
Output: 30 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-F33** 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-F33** operates at 30 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 1/50,000 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 durration 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.

VIDEO OUT/DC IN/SYNC connector



Pin No.	Internal sync mode	External sync mode				
		External HD/VD	Frame on demand			
			ONE Trigger	Fixed shutter	Reset control	Partial(optionally)
1	GND	GND	GND	GND	GND	GND
2	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC
3	GND (Pin 4)	GND (Pin 4)	GND (Pin 4)	GND (Pin 4)	GND (Pin 4)	GND (Pin 4)
4	Video out	Video out	Video out	Video out	Video out	Video out
5	GND (Pin 6)	GND (Pin 6)	GND (Pin 6)	GND (Pin 6)	GND (Pin 6)	GND (Pin 6)
6	-	HD IN/OUT	HD IN/OUT	HD IN/OUT	HD IN/OUT	HD IN/OUT
7	-	VD IN/OUT	Trigger IN	Trigger IN	Trig/VD IN	Trigger IN
8	GND (Pin 9)	GND (Pin 9)	GND (Pin 9)	GND (Pin 9)	GND (Pin 9)	GND (Pin 9)
9	NC	NC	NC	NC	NC	NC
10	GND (Pin 7)	GND (Pin 7)	GND (Pin 7)	GND (Pin 7)	GND (Pin 7)	GND (Pin 7)
11	-	-	-	-	Trigger B IN	-
12	GND (Pin 11)	GND (Pin 11)	GND (Pin 11)	GND (Pin 11)	GND (Pin 11)	GND (Pin 11)