

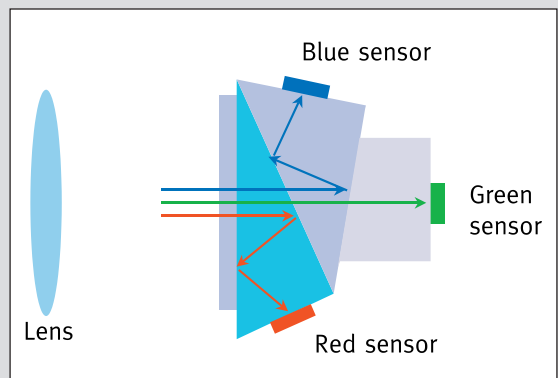


CV-L105

3 CCD RGB Line Scan Camera



- *Ideal for industrial vision applications*
- *Dichroic RGB beam splitter prism for precise color reproduction*
- *Excellent color alignment and sensitivity*
- *High dynamic range and low lag*
- *3 sensors with 2048 pixels, 14 μm x 14 μm*
- *Sensor scanning width: 28.7 mm*
- *Low Voltage Differential Signaling (LVDS) for control and data interface*
- *Digital RGB 8 bit LVDS parallel video output*
- *Scan rate up to 14285 lines per second at 30 MHz*
- *Variable clock rate 15 or 30 MHz*
- *Edge pre-select and pulse width control exposure*
- *2 times horizontal binning*
- *Nikon F-mount lens adapter*
- *Setup by Windows 98/NT/2000 software via RS 232C*

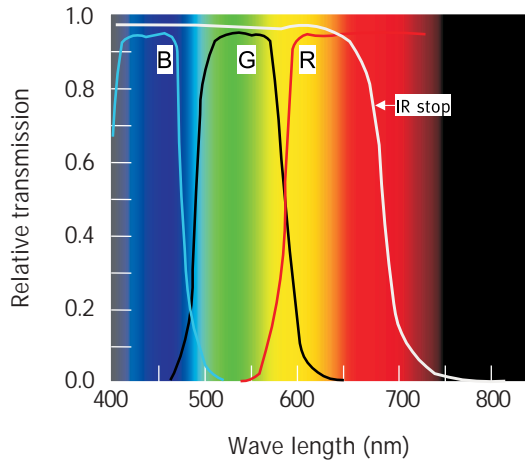


The leading manufacturer of high performance camera solutions

Specifications for CV-L105

Specifications	CV-L105
Scanning system	Line sensor with internal clock
Pixel clock	30 or 15 MHz
CCD sensor	3 line sensors mounted on RGB beam splitter prism
Sensor scanning width	28.7 mm (h)
Effective pixels	3 x 2048 (h)
Cell size	14 (h) x 14 (v) μ m
Sensor alignment	± 1 pixel
Sensitivity on sensor	270 Lux (3200K, 2 msec. exp. 100% video on green channel)
Dynamic range	256 levels per color
Input and output signals	Differential. LVDS (EIA 644)
Video output (LVDS)	8 bit per color
Synchronization	Scan pulse input
Scan rate	7142 lines/second at 15MHz 14285 lines/second at 30 MHz
Clock pulses per scan	>2076
Exposure control	Edge pre-select and pulse width
Exposure time	1/30 to 1/6622 sec. in edge pre-select 1 μ sec. to 32 msec. in pulse width control
Functions controlled by RS 232C	Pixel clock, Scan rate, Shutter speed, Binning, Gain (red, green and blue), Offset (red, green and blue)
Diagnostics	Power system. Ext. trig received (Busy)
Operating temperature	-5°C to +45°C
Humidity	20 - 80% non-condensing
Storage temp./humidity	-25°C to +60°C/20% to 80% non-condensing
Power	12V DC $\pm 5\%$. 12W
Lens mount	Nikon F-mount
Dimensions	90 x 90 x 123 mm (HxWxD)
Weight	1100 g

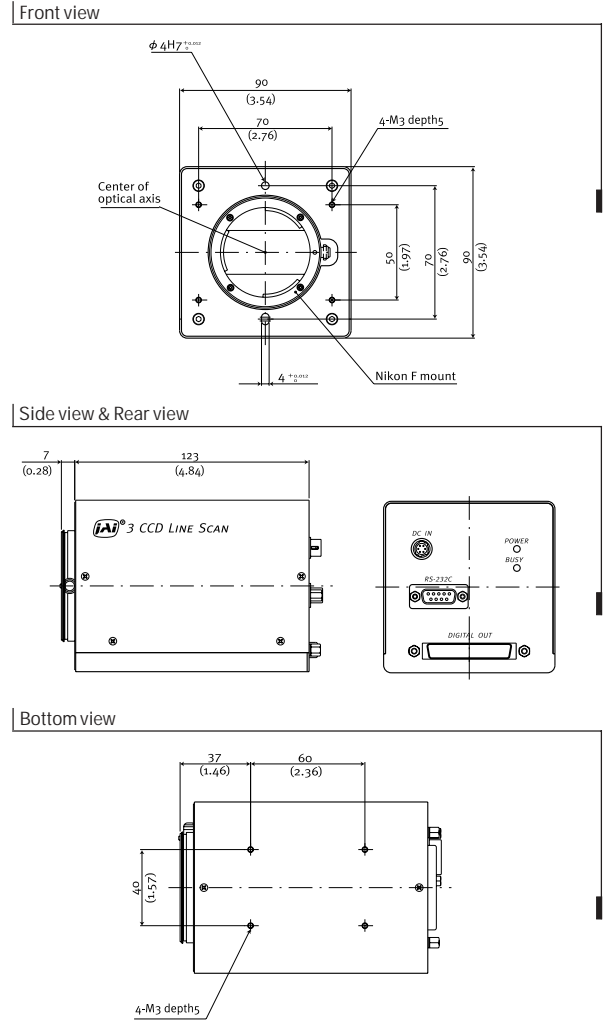
Spectral Sensitivity



Ordering Information

CV-L105 3 CCD RGB Line Scan Camera
Special 68 pin Hirose connector (must be ordered separately)

Dimensions



Connections Description

68 pin interface		9 pin D-sub RS 232C
RD0 - RD7	Red data output	pin 1 N.C.
GD0 - GD7	Green data output	pin 2 RX
BD0 - BD7	Blue data output	pin 3 TX
Ext. Trig	Scanning pulse	pin 4 N.C.
BIN	Binning	pin 5 GND
Strobe	Pixel clock	pin 6 N.C.
Pixel rate	Select 15 or 30 MHz clock	pin 7 N.C.
LEN	Data enable	pin 8 N.C.
RS 232C	RS 232C ON/OFF	pin 9 N.C.
N.C.	Spare	
GND	Ground	

6 pin power	
pin 1	N.C.
pin 2	N.C.
pin 3	GND
pin 4	GND
pin 5	N.C.
pin 6	+12V DC

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