CSB4000F-10 4,190,000 pixels CMOS B/W Digital Camera

Product Description

CSB4000F is a integrated type CMOS B/W Camera for machine vision use employing CMOS image sensor (Total pixel: 4,190,000).

This camera is developed to meet the function required specifically for image processing in a high order originally and have a feature making a clear distinction to previous CCD camera.

This camera employs the following features as main function.

Global Shutter: The exposure is performed on all pixels simultaneously.

WOI (Window Of Interest): Only arbitrary more than one area can be read out.

Multi Slope function: High-dynamic range is achieved.

IEEE1394 is employed to the interface to frame grabber board.

As this camera is integrated type and have a small and lightweight body (54 x 43 x 94.5 mm, approx. 220g), it is suitable for the mount to industrial machine and image processing machine.



- Total pixel 4,190,000 CMOS
- WOI (Window Of Interest)
- Global Shutter
- · Camera Link Interface
- C-mount
- Small and right weight body (54 x 43 x 59 mm, approx. 160g)
- Sub Sampling



CSB4000F-10

	CSB4000F-10
 Image sensor 	Diagonal 17.4mm (1.1 type) CMOS Image sensor
 Total pixel 	• 2048(H) x 2048(V)
 Active pixel 	• 2008(H) x 2047(V)
 Pixel size 	• 6.0 x 6.0 micro m
 Scanning system 	Progressive
 Sync system 	Internal
Frame rate	 7.14fps (Global shutter, Under all pixel's read out mode exposure 60micro sec)
 Aspect ratio 	• 1:1
Subject illumination	Standard 3200 lx (F2.8 3100K exposure time 16msec)
 Interface 	• IEEE 1394 Std.1394a-2000(Transmission:400Mbps)
 Protocol 	Conforms to IIDC 1394-based Digital Camera Specification Ver1.3
 Video format 	Format 7 / Special Format (in WOI)
 Input Signal 	TRG (Shutter trigger)
Electronic shutter	 User-defined shutter speed is selectable through IEEE1394 communication command (From 60 micro sec through 1sec)
• RTS	Shutter speed preset or shutter speed control by pulse width
 Gamma 	• 1.0
 Power supply 	• Supply from IEEE1394 connector (From DC8V through DC30V)
Power consumption	• Approx. 2.6W (in DC12V)
 Lens mount 	 C-mount (The performance of CSB4000F may cause a deterioration of resolution or an image vignette depending on the lens.)
External dimension	• 54(W) x 43(H) x 94.5(D)mm
Weight	Approx. 220g
Various Specs	CE marking (under preparation for qualifying)

Recommended host adaptor card

Manufacture	
FA system engineering	
Iris vision	
Matrox	
National Instruments	
Technoscope	
Unibrain	