

CSB 4000CL

4.0 Mega Pixel CMOS B/W Video Camera with CameraLink Interface



- **CameraLink output**
- **Ultra-high resolution 2008 (H) x 2047 (V)**
- **Various shutter modes including**
 - Global shutter - all pixels simultaneously exposed
 - Random Trigger Shutter (RTS)
 - Rolling Shutter exposures line by line
- **WOI-function**
Up to 16 arbitrary rectangular areas (region of interest) can be read out with increase frame rate
- **Sub-sampling**
Allows the output of an image with an increase frame rate at a lower resolution
- **High dynamic range**
By adjustable sensitivity characteristic
- **Application**
 - High end machine vision
 - Factory automation
 - Microscopy
 - Quality control



Technical Data

Type

CSB 4000CL

Image sensor	CMOS Image sensor
Total pixel	2048 (H) x 2048 (V)
Active pixel	2008 (H) x 2047 (V)
Pixel size	6.0 μm(H) x 6.0 μm(V)
Image Area	12.228 mm x 12.228 mm
Driving frequency	33MHz
Scanning line	2047 lines Progressive Scan
Frame rate	7.29fps (full resolution) 83 fps (640x480)
Sync system	Internal / External automatic switch-over
Digital output	CameraLink (10bit 33.0MHz)
WOI-function	Output of up to 16 WOI with increased frame rate
Signal / Noise ratio	>50dB
Input signal	Trigger, CLOCK, COMMAND, Exposure control
Output signal CLOCK	33.00000MHz +/-100ppm (Internal-sync)
Sensitivity setting	FIX (FIX GAIN)
by external signal	PGC (PROGRAMABLE GAIN CONTROL)
Gamma	1.0
Shutter modes	Random trigger shutter, Synchronized global shutter, Rolling shutter
Power source	DC12V plus/minus 10% (ripple <100mV(p-p))
Power consumption	Approx. 1.3 W
Ambient condition	Temperature: 10°C~50°C Humidity: 20%~80%
Lens mount	C-mount (optional TFL-mount)
External dimension	54 (W) x 43 (H) x 59 (D)mm
Weight	Approx. 160 g
Accessories	<ul style="list-style-type: none"> • Data Cable with double-terminated connector (3m) • Tripod mounting kit • IR cut filter

Dimension

