

SiOnyx XMB-0920 CAMERA CORE

1/2-inch 720p extreme low light CMOS CAMERA



Features

- SiOnyx extreme low light technology
- 0.003 Lux video
- Monochrome
- 2D noise reduction
- Auto exposure / Auto gain
- 5VDC
- Uncompressed RAW video output
- Parallel, CameraLink, optional LVDS
- Serial control interface
- Alternate outputs available with customization

Key Performance Parameters

Parameter	Value
Sensor	SiOnyx XQE-0920
Minimum Illumination @f1.2, 30fps	0.003 Lux (mono)
Optical Format	1/2-inch (720P)
Auto Exposure Range	22usec to 500 msec
Video Output	CameraLink, parallel, optional LVDS
Video Type	Uncompressed 12 bit mono;
Image Latency	0.25 msec
Shutter Type	Rolling
Video Resolutions	1280x720
Frame Rate	60 FPS (720P), 50, 30, 25, 15, 10
Connector	Flex cable
Serial Comm Port	UART serial
IR Cut Filter	Manual filter
Lens Mount	Circuit board only
Operating Temperature	-10°C to +40°C
Functional Temperature	-20°C to +65°C
Power Supply	5 VDC
Power Consumption	1.1W @ full frame rate
Dimensions (mm)	38(w) x 38(h) x 10(l)mm
Weight	<50 g

The XMB-0920 is a low power low latency, high performance low light imaging core for embedded OEM applications in nightvision, surveillance, industrial, and scientific markets. The camera features SiOnyx's breakthrough low light sensor technology, which offers unprecedented near infrared sensitivity and enables new unassisted night vision imaging. The near infrared performance makes the XMB-0920 the go to choice for iris detection, thru wafer inspection, fluorescence imaging, and 1064nm laser imaging.

Ordering Information:

MODEL NUMBER	TYPE
XMB-0920-M	Monochrome version