

USB 2.0 CMOS Camera for Machine Vision

This high-performance CMOS camera is designed for machine vision and inspection applications. It features a USB 2.0 interface for seamless connectivity and real-time data transfer.



Overview

High-Performance Machine Vision Camera

This SD1 Machine Vision and Inspection Camera is engineered for demanding industrial imaging tasks requiring high precision. Featuring a 1.3MP CMOS sensor and a high-speed USB 2.0 interface, it delivers reliable real-time data transfer for automated optical inspection and quality control. With advanced programmable controls and a compact form factor, this camera offers the versatility needed for seamless integration into various machine vision systems.

Imaging Performance

Key Imaging Metrics

1.3 MP

Effective Pixels

44 dB

SNR

71 dB

Dynamic Range

68 FPS

Frame Rate

Sensor Specifications

Parameter	Value
Sensor Model	MT9M111
Pixel Size	3.6µm × 3.6µm
Resolution	1280x1024
Sensitivity	1.0V/Lux-sec (550nm)
Shutter Type	Electronic rolling shutter

Connectivity & Compatibility

Supported Operating Systems

- Windows XP (32-bit)
- Windows 7 (32-bit)
- Windows 7 (64-bit)

Connectivity

USB 2.0, TWAIN, DirectShow

Physical & Environmental

Physical Dimensions

Component	Measurement
Product Dimensions	44.1 x 43 x 41.5 mm
PCB Size	33 x 33 mm
Weight	123 g
Lens Mount	C/CS mount

Environmental Ratings

0 to 50 Operating Temp • 10%-90% RH Humidity

Power & Control

Power Consumption

1.3 W

Work

0.55 W

Standby