

# 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