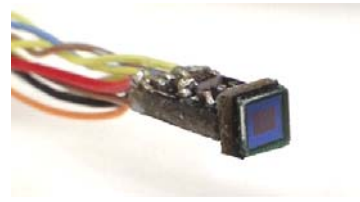




This is a family of products based on the most advance CMOS mixed signal technology. It integrates image array, signal processing, timing and control circuitry, all on a single chip. It is ideal for applications requiring a small footprint, low power and low cost.

Features:

- Small size 2.8x2.8mm
- Resolution: 640x480 pixels
- Operation voltage 2.8V
- Mipi interface
- Low power consumption
- Cable size: 1.8mm OD
- Cable length: 1M (upto 4M)



Specification

Imager	CMOS imager sensor VGA
Optical Format	1/13", CRA 26.1°
Clock rate	24MHz
Max exposure	536 x T _{line}
Video Output	MIPI
Scan mode	Progressive, max 30fps
Data format	YUV422, 10bit Raw RGB
Sensitivity	1200mV/Lux-sec
Picture Element	656x496pixel
Pixel size	1.75x1.75um
Effective image area	1148x868um
S/N Ratio	35.9dB
Dynamic range	66.7dB@16x gain
Operation Voltage	2.8VDC & 1.5VDC
Operation Current	95mA max
Cable	2p + 1C coaxial + 5C wire, OD1.8+/-1mm
Connection	10pin 1.25mm connector (options: open)
Dimension	Sensor board: 2.8x2.8mm Main board: 3.4x5.8mm

Application Example

- Inspection device
- Endoscope

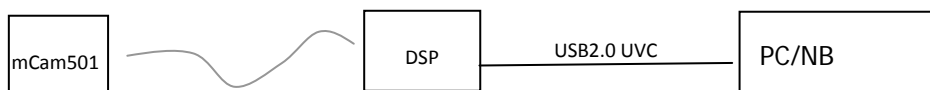
Pin Description(tentative)

1. VDD 2.8VDC
2. GND Ground
3. CLK Clock input from backend
4. EVDD 1.5VDC
5. SDA I2C data
6. SCL I2C clock
7. MCP MIPI clock Positive o/p
8. MCN MIPI clock Negative o/p
9. MDP MIPI Data Positive o/p
10. MDN MIPI Data Negative o/p

Application Note

1. Correct lens needs to be attached for image viewing. Check other models with lens mounted.
2. Customer can develop his own solution to interface mCam501 but we provide USB modules C7026 for PC application

System Block Diagram



Backend Module Selection

Features	Model No	Interface	Display
PC application	C7026	USB2.0	PC/NB
Analog output	C8201-VGA	CVBS	TV