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:

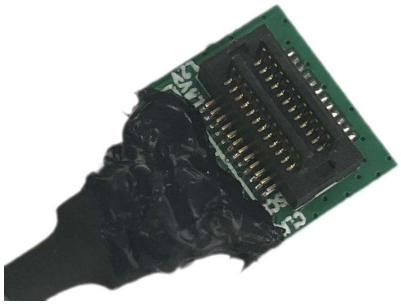
- Small size: 2.2mm OD
- Built in 2 super bright LED at tip
- Resolution: 400x400 pixels
- Operation voltage 3.3V
- Low power consumption
- Cable size: 0.5mm OD
- Cable length: 1M (can be up to 4M)

Application Example

- Inspection device
- Endoscope

Connector

24pin B-B connector to fit backend modules. Device ID has been built for back end module identification.



Specification

Imager	CMOS imager sensor OVM6946
Optical Format	1/18”
Clock rate	4MHz
Video Output	Analog
Scan mode	Progressive
Data format	Raw RGB
Picture Element	400x400 pixel
Pixel size	1.75x1.75um
Effective image area	714x707um
S/N Ratio	34.4dB
Dynamic range	67.1dB
Operation Voltage	3.3VDC
Power consumption	25mW
Connector	24pin B-B
Tip Dimension	OD2.2 x 5 mm
Optical Spec	
FOV	120° diagonal
F/No	5.0
Working Distance	5mm ~ infinity
LED Spec	
LED size	0.7x0.35mm
Intensity	150~300mCd
Color Temp	5000~5500K

Back End Module C8209DL

C8209DL is USB UVC module, specially designed for interfacing muC103L2 camera. It has built in LED control circuit to get optimum lighting for camera illumination.

Features

- ✓ UVC compatible, no driver is needed for win7, win10
- ✓ Good for some kernel of Linux OS
- ✓ Output 400x400pixels at 30fps
- ✓ LED to indicate operation status
- ✓ USB Type-C connector