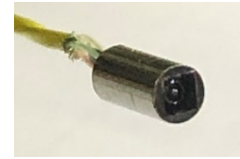


This is a family of products based on the most advance CMOS mixed signal technology. It integrates image array, signal processing, timing and control circuitry, all on a single chip. It is ideal for applications requiring a small footprint, low power and low cost.



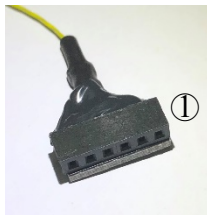
Features:

- Small size tip: 1.52mm OD
- Resolution: 400x400 pixels
- Operation voltage 3.3V
- Low power consumption
- Cable size: 0.5mm OD
- Cable length: 1M

Application Example

- Inspection device
- Endoscope

Pin Description



1	VDD	3VDC
2	NC	
3	NC	
4	VOUT	Analog video out
5	CLK	Clock input from backend
6	GND	Ground

Specification

Imager	CMOS imager sensor OV6946
Optical Format	1/18"
Clock rate	4MHz
Max exposure	876 x T _{line}
Video Output	Analog
Scan mode	Progressive
Data format	Raw RGB
Picture Element	400x400 pixel
Pixel size	1.75x1.75um
Effective image area	712x707um
S/N Ratio	34.4dB
Dynamic range	67.1dB
Operation Voltage	3.3VDC
Power consumption	25mW
Connector	6pin 2mm pitch
Connection	VDD, GND, CLK, VOUT
Tip Dimension	1.52OD x 3.0 mm
Optical Spec	
FOV	87.5° horizontal, 120° diagonal
F/No	5.0
Relative Illumination	60.7%
Working Distance	4mm ~ infinity
IR cut off	665+/-10nm

Backend Module Selection

Features	Model No	Interface	Display	Application
PC application	C8262	USB2.0	PC/NB	Handle
TV viewing	C8261	CVBS	TV monitor	Handle
Handheld DVR	C82846	Digital	IPS 3.0"	Handle
HD viewing	C8203-0426	HDMI/DVI	HDMI TV monitor	Desktop