



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:

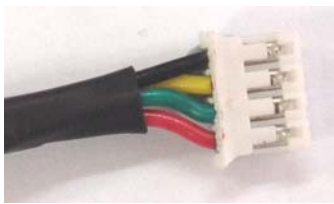
- Small size : 1.5mm OD depends on optical lens
- Resolution: 400x400 pixels
- Operation voltage 3.3V
- Low power consumption
- Cable length: 1M



Application Example

- Inspection device
- Endoscope

Pin Description



- | | | |
|--------|-----|--------------------------|
| Red | VDD | 3VDC |
| Green | CLK | Clock input from backend |
| Yellow | VTO | Analog video out |
| Black | 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	4pin cable
Connection	VDD, GND, CLK, VTO