



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 : 6 mm diameter
- Resolution: 100Kpixels
- Low operation voltage (3.3V)
- Built in white LED
- LED ON/OFF controllable
- Built in lens with IR cut filter
- Low power consumption (<300mW typ.)
- Direct connect to standard video monitor



Assemble into metal case with OD of 6mm
Covered with optical glass

Application Example

- Camera for ducting inspection
- Pen camera
- Toys

Pin Description

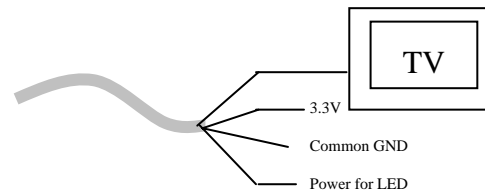
1. CVO Composite Video Output
Direct connect to TV/Monitor
2. GND Common Ground for power and video
3. PWR Power Supply 3.3V DC
4. VLED Power for LED, range from 3-6V, It can be ON-OFF or dimming control externally.

Specification

Imager	CMOS imager sensor OV6920
Optical Format	1/18"
Shutter	1/60 to 1/5.7 usec
Video Output	Composite video (75Ω)
Picture Element	320x240 pixel
Effective image area	820x625um
S/N Ratio	42dB
Fixed pattern noise	<0.03% Vp-p
Dynamic range	42dB
Operation Voltage	3.3VDC LED 3-6V
Connector	4 pin cable
Connection	PWR, Video, GND, VLED
Lens	F2.8, EFL:0.96mm with IR cut
FOV	55deg
Dimension	Sensor board: 5.2mm diameter Main board: 5.1x11mm

Electrical Characteristic at 25C

	Min	Typ	Max	Unit
Operation Voltage	3	3.3	3.5	V
Operation Current	30	35	50	mA
LED Input voltage	3		6	V
Operation Temperature	0		45	deg C



Connection Diagram

Note:

1. Operation current may be varied by the brightness of image.
2. Video quality may be affected by the connection cable, its length and characteristics.