



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 : 8x28 mm
- Resolution: 100Kpixels
- Wide operation voltage (3.8 - 6V)
- Built in white LED x3pcs
- LED ON/OFF controllable
- Built in lens with IR cut filter
- Low power consumption (<300mW typ.)
- Direct connect to standard video monitor



**Application Example**

- Camera for ducting inspection
- Pen camera
- Toys

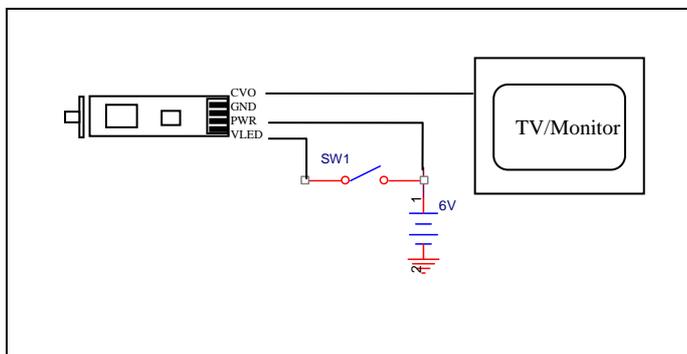
**Pin Description**

1. CVO Composite Video Output  
Direct connect to TV/Monitor
2. GND Common Ground for power and video
3. PWR Power Supply 3.8-6V DC
4. VLED Power for LED, range from 3.8-6V, built-in 120Ohm resistor in Series. 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	3.8-6 VDC
Connector	Mini 4 pin connector of 1mm pitch
Connection	PWR, Video, GND, VLED
Lens	F2.8, EFL:0.96mm with IR cut
FOV	55deg
Dimension	Sensor board: 8mm diameter Main board: 8x18mm

**Connection Diagram**



**Electrical Characteristic at 25C**

	Min	Typ	Max	Unit
Operation Voltage	3.8	4.5	6	V
Operation Current	30	35	50	mA
Operation Temperature	0		45	deg C

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.