# MuC204 (NTSC) **Color Camera Module** w/LED Control

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



- 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
		resister in Series. It can be
		ON-OFF or dimming control

externally.

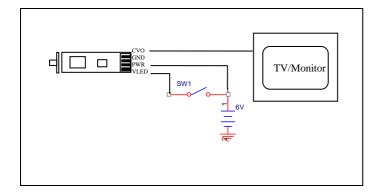




# **Specification**

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	Тур	Max	Unit
3.8	4.5	6	V
30	35	50	mA
0		45	deg C
	3.8	3.8 4.5	3.8 4.5 6 30 35 50

### Note:

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