



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 : 3.6 mm diameter
- Cable diameter : 1.95mm
- Support cable up to 1Meter
- Resolution: 100Kpixels
- Low operation voltage (3.3V)
- Built in lens with IR cut filter
- Low power consumption



Pin Description

- 1. PWR Power Supply 3.3V DC
- 2. SDA Serial Data
- 3. SCL Serial Clock
- 4. CVO Composite Video Output
Direct connect to TV/Monitor
- 5. CLCK Clock input 6.4MHz
- 6. GND Common Ground for power and video

Note: we provide back end board muC220 to interface this module to output CVBS. Customer can produce his own interface board



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
Connection	PWR, Video, GND
Lens	F2.8, EFL:0.96mm with IR cut
FOV	55deg

Electrical Characteristic at 25C

	Min	Typ	Max	Unit
Operation Voltage	3	3.3	3.5	V
Operation Current (no load)		18		mA
Operation Temperature	0		45	deg C

Note: Operation will be varied according to the brightness of scene.

System Block Diagram

