

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 : 1.52mm OD
- Resolution: 400x400 pixels
- Operation voltage 3.3V
- Low power consumption
- Cable size: 0.95mm OD
- Cable length: 1M



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	6pin 2mm pitch
Connection	VDD, GND, CLK, VOUT
Tip Dimension	1.52OD x 3.0 mm
Optical Spec	
FOV	87.5° horizontal, 120° diagonal
F/No	5.0
Relative Illumination	60.7%
Working Distance	4mm ~ infinity
IR cut off	665+/-10nm

Application Example

- Inspection device
- Endoscope

Pin Description



Red	VDD	3VDC
Yellow	VOUT	Analog video out
White	CLK	Clock input from backend
Black	GND	Ground

Backend Module Selection

Features	Model No	Interface	Display	Application
PC application	C8262	USB2.0	PC/NB	Handle
TV viewing	C8261	CVBS	TV monitor	Handle
Handheld DVR	C9223	Digital	TFT 3.5"	Handle
Handheld DVR	C82846	Digital	IPS 3.0"	Handle
HD viewing	C8203-0426	HDMI/DVI	HDMI TV monitor	Desktop