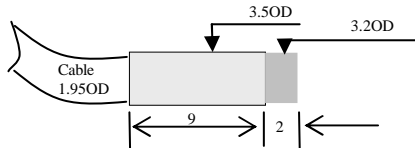This is a family of products based on the most advance CMOS mixed signal technology. It integrates image array, signal processing, timing and control circuitry, all on a single chip.   It is ideal for applications requiring a small footprint, low power and low cost.

Features:

➢ Small size : 3.5mm diameter (include lens)
➢ Resolution: 400x400 pixels
➢ Lens f1.1mm, F2.8, FOV 120
➢ Fixed focus for close up view
➢ Operation voltage 3.3V
➢ Low power consumption (48mW typ.)
➢ Cable size: 1.95mm OD
➢ Cable length: 1M

Mechanical Dimension

Pin Description

1. VDD   3.3VDC
2. GND   Ground
3. CLK   Clock input from backend
4. VTO   Analog video out
5. SDA   I2C data
6. SCL   I2C clock

Specification

Imager	CMOS imager sensor OV6930
Optical Format	1/10.6"
Video Output	Analog
Scan mode	Progressive
Data format	Raw RGB
Picture Element	400x400 pixel
S/N Ratio	38dB
Dynamic range	68dB
Lens info	
Focal length	1.2mm
Aperture	2.8
FOV	120deg
Operation Voltage	3.3VDC
Operation Current	15.4mA max
Connector	6pin cable
Connection	VDD, GND, CLK, VTO, SDA, SCL
Dimension	3.5ODx11mm

Application Note

This module needs the backend chip OV420 to work with. For details of backend solution, please refer to the related doc, C3842 (USB application) and C6203, C9203 (handheld application)

Application Block Diagram