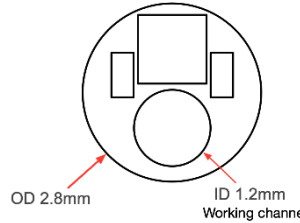




The muC103T2812 camera, featuring a plastic distal end cap, is built around the advanced CMOS sensor, which leverages cutting-edge CMOS mixed-signal technology. With the prebuilt distal cap, it is easier for manufacturer to assemble the camera to catheter of endoscope, minimize the cost and increase productivity.

Features:

- Small size: 2.8mm OD
- One working channel: 1.2mm OD
- Built in super bright LED at tip
- Resolution: 400x400 pixels
- Operation voltage 3.3V
- Low power consumption
- Cable size: 0.58mm OD
- Cable length: 1M, up to 4M



Specification

Imager	CMOS imager sensor OVM6946
Optical Format	1/18"
Clock rate	4MHz
Video Output	Analog
Scan mode	Progressive
Data format	Raw RGB
Picture Element	400x400 pixel
Pixel size	1.75x1.75um
Effective image area	714x707um
S/N Ratio	36.8dB
Dynamic range	65.8dB
Operation Voltage	3.3VDC
Power consumption	25mW
Connection	24pin
Tip Dimension	2.8mm OD x 3.4 mm
Optical Spec	
FOV	120° Diagonal
F/No	5.0
Working Distance	5mm ~ 50mm
Working wavelength	400-1100nm
LED Spec	
Brightness	300mCd
CIE	0.314/0.282 ~0.334/0.311

Application Example

- Inspection device
- Endoscope

Connector

24pin B-B connector to fit backend modules. Device ID has been built for backend module identification.



Back End Module C8209DL

C8209DL is USB UVC module, specially designed for interfacing muC103 series camera. It has built in LED control circuit such that user can control LED brightness to get the optimum lighting for camera illumination, even though it has auto gain and exposure control.

Features

- ✓ UVC compatible, no driver is needed for windows
- ✓ Good for some kernel of Linux OS
- ✓ Output 400x400 pixels at 30fps
- ✓ LED to indicate operation status
- ✓ USB Type-C connector

