



This is a family of products based on OCHFA10, which is a 1/17.5" color 518 Kpixel analog camera for the rapidly growing disposable medical endoscope market. It is the same size as the OVM6946 but has higher resolution, and is an ideal upgrade for bronchoscopes, ureteroscopes and hysteroscopes. It can also be used for industrial borescopes. It features PureCel®Plus-S pixel technology, enabling high functionality in the smallest possible die size. With 720 x 720 resolution at 30 frames per second, it provides the best image quality for improved patient outcomes.

Features:

- Small size
- Built in 2 LED w/different sizes of tip
- Resolution: 720x720 pixels
- Operation voltage 3.3V
- Low power consumption
- Cable size: 0.5mm OD
- Cable length: 1M, up to 3M

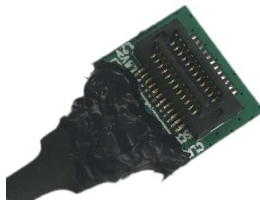


Application Example

- Inspection device
- Endoscope

Connector

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



Specification

Imager	CMOS imager sensor OCHFA10
Optical Format	1/17.5"
Clock rate	4MHz
Video Output	Analog
Scan mode	Progressive
Data format	Raw RGB
Picture Element	720x720 pixel
Pixel size	1.008 μm
Effective image area	733x733um
S/N Ratio	TBD
Dynamic range	TBD
Operation Voltage	3.3VDC
Power consumption	25mW
Connection	VDD, DGND, CLK, VOUT, VLED, AGND
Tip Dimension	OD : L2S-2.0mm/L2-2.2mm Length: 5mm
Optical Spec	
FOV	120° Diagonal
F/No	5.0
Working Distance	5mm ~ infinity
LED Spec	
Brightness	300mCd
CIE	0.314/0.282 ~0.334/0.311

USB UVC Backend module

C8209HL USB UVC modules, which is designed for interfacing muC112L2/L2S. 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 win7, win10
- ✓ Good for some kernel of Linux OS
- ✓ Output 720x720 pixels at 30fps
- ✓ LED to indicate operation status
- ✓ USB Type-C connector

