



ΤM



, Intra Oral Camera System

Optologics I.O.C is an vision camera . With its compact design.

Specification

- Uncompresed high quality FULL HD video with 30 frame rate
- Telecentric Type Prism Optical Layout
- High Speed Accuracy Autofocus Algorithm & Image Platform
- Fast Auto Focus with continuous tracking
- Each zoom step speed control
- Real-Time use to serial zoom speed control
- Contrast Enhancement (Local Exposure)
- AWB(Automatic White Balance)
- AE(Automatic Exposure)
- BLC(Back Light Compensation)
- DFC(Defective Pixel Correction) on the fly
- Remote lens control via standard controller (RS232)
- Sony 1/2.8" IMX-291 CMOS, 2Megapixel
- Up to 1920X1080 30P resolution or 1280*720 30P
- 2D/3D DNR (Digital Noise Reduction)
- RS-232 Interface for external control
- DC5V (USB Power)

Specification for Camera

 Specifications are apt to change without prior notice to enhance quality and performance Specification for Lens

Optologics Intra Oral Camera Key Features

- Optical Layout: Prism Optical Type
- Ultra Macro Image: 1mm ~ Obtain near and far vision
- Resolution: Full HD
- **Distortion : Almost No Distortion** (smaller than Liquid Lens Type and VCM Type)
- Vinnet : Almost No Vignette
- Saturtaton : Almost No Saturation
- Output: USB2.0
- Autofocus: Onepush AF Type Continious AF Type High Fast AutoFocus Algorithm
- Actuator : Micro stepping Motor
 Image sensor Moving Type
- Optical Axis : Alignment of the lens, Minimization

Camera Spec & Optical Spec

항 목		Design Value
Sensor		1/2.8 inch 4.5 (diagonal)
Wavelength		Visible(400nm ~ 700nm)
 F/#		7
Magnification		0.23X
FOV		50deg(diagonal) 15.652mm(H) x 11.739mm(V) at WD 2mm
	0F	46.7%
MTF @75lp/mm	0.7F	45.6%(S), 46.3%(T)
	1.0F	47.6%(S), 36.7%(T)
CRA(Max)		5.908deg
Optical Distortion(Max)		< 3.0%
TV Distortion		< 0.8%
Right angle mirror size		(10mm x 10mm)
Construction		11 Glass(Spherical)
Relative illumination		94.2%(1.0 field)
OI(Object ~ image)		105mm (Object ~ image)

MODEL	BVM-0001
Sensor Device	Sony 1/2.8" progressive scan CMOS, 2Megapixel
Total Pixels	1952(H) x 1116(V) 2.18 Megapixel
Effective Pixels	1944(H) x 1104(V) 2.14 Megapixel
Scanning System	Progressive Scan
Horizontal	800TVL
S/N Ratio	More than 50dB (AGC Off)
Shutter Speed	1/60s Default,(Long Exposure Mode, ~1Sec)
Video Output	1920 x 1080 30P / 1280 * 720 30P or 60P
Video Output Format	USB 2.0
Day & Night	IR CUT Filter built in System
Serial Port	RS232
Lens Control	Motorized Lens Control by stepping Motor. (Simplified Adjustment)
2D/3DNR	-
Power Source	DC 5V (USB Powr)
Ambient Temperature	-10°C ~ 60°C













