

## ***Microscopic Camera LUMC-C12***



Microscopic Camera LD-LUMC-12, is a high-performance imaging system designed for various microscopic applications. Back-illuminated CMOS sensors with resolution 1.5M~45M and comes with integrated CNC Aluminium Alloy compact housing. Super high sensitivity up to 2350mV (IMX385), ultra-low noise for fluorescent Image. Featured with advanced video & Image Processing Software Image View, Support SDK for Win/Linux/Mac/Android.

## Features

- Sony Exmor/STARVIS CMOS sensor ensures sharp and clear images
- Ultra-Fine Colour Hardware Colour Engine Ensuring High FPS Up to 15 Frames @ 20M
- With Pixel binning 1 X 1, 2 X 2, 3 X 3 and Exposure 0.1 ms ~ 15s
- Camera is designed with high quality IR-CUT to protect the camera sensor
- Easy media transfer and management
- PC compatibility and mobile flexibility

## Application

Can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate for the acquisition of digital images of fluorescence, biological microscopes, or online interactive teaching.

## Specifications

Model No.	LD-LUMC-12
Sensor Type	CMOS Sony IMX183(C) sensor
Spectral Range	380-650nm (with IR filter)
Camera Type	Coloured
White Balance	ROI white balance/ Manual Temp- Tint Adjustment
Sensor size	1-inch (13.06 × 8.76) mm
Resolution	20.0 MP
Pixel	2.4 × 2.4 μm
Frame rate	15 Frames @ 20M
G Sensitivity, Dark Signal	462 mv with 1/30 s, 0.21 mv with 1/30 s
Connectivity	USB
OS requirements	Windows XP/ Vista/ 7/8/10 (32 & 64 bit), OS X (Mac OS X), Linux
Hardware requirements	CPU: Equal to Intel Core2 2.8GHz or Higher, Memory- 2GB or more

Image signal processor	Video pipeline (Ultra-fine TM-HISPVP) for demosaic, Adjustments, Automatic exposition, gain adjustment, One push white balance, Chrominance Adjustment, Saturation adjustment, Gamma correction, Luminance Adjustment, Contrast Adjustment, Bayer and finally form RAW data for 8/12 bit output.
Mounting size	C Mount to 23.2 mm Diameter
Operating temperature	-10 °C to 50 °C
Storage temperature	-20 °C to 60 °C
Working Humidity	30 to 80 % RH
Storage humidity	10 to 60% RH
Power Supply	DC 5V over PC USB Port
PC Requirements	USB port, Display:17" or Larger CD-ROM
Recording system	Still Picture or Movie
Cooling System	Natural
Packaging Dimension (L X W X H)	520 × 320 × 330 mm
Gross Weight	12-17 Kg/ Carton