



LABMICRO

8553545575 / 8050259428 

contact@labmicro.in 

www.labmicro.in 

USB3.0 CMOS Cooled Digital Camera, Fluorescent Image, GS Shutter



USB3.0 CMOS Cooled Digital Camera, Fluorescent Image, GS Shutter

- USB3.0 Digital Camera With SONY Exmor CMOS Sensors Resloution 1.7M~45M
- Two-Stage TE-Cooling Electric Fan, Sensor Chip Cooling -42°C Below Ambient Temperature
- Special Design For Fluorescent & DIC Image View Under Low Light, Up To 1 Hour Exposure
- Support Both Video & Trigger Modes, With IR-CUT/AR Coated Window, Ultra-Fine TM Color Engine
- With Advanced Video & Image Processing Software Image View, Support SDK For Win/Linux/Mac/Android

SLV-20MPFL

USB3.0 CMOS Cooled Digital Camera, Fluorescent Image, GS Shutter

SLV-20MPFL adopt SONY Exmor CMOS sensor as the image-picking device and USB3.0 is used as the transfer interface. MTR3CMOS hardware resolutions range from 1.7M to 45M and come with the integrated CNC aluminum alloy compact housing.

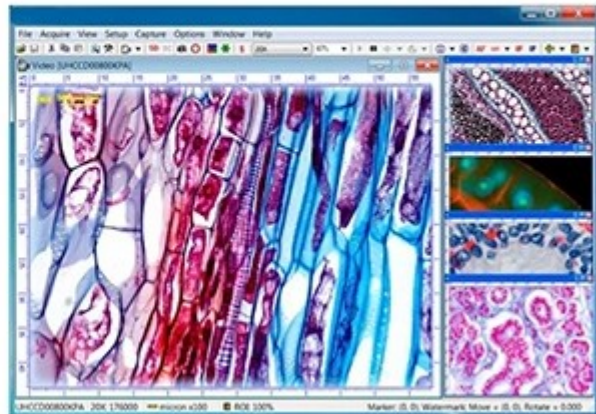
With the two-stage peltier cooling sensor chip to -42 degree below ambient temperature. This will greatly increase the signal to noise ratio and decrease the image noise. Smart structure is designed to assure the heat radiation efficiency and avoid the moisture problem. Electric fan is used to increase the heat radiation speed.

SLV-20MPFL comes with advanced video & image processing software Image View; Providing Windows/Linux/macOS/ Android multiple platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc);

can be widely used in low light environment and microscope fluorescence image capture and analysis, as well as the astronomy deep sky application.



SLV-20MPFL Specification



Cata. No.	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
SLV-45MPFL	45M/IMX492(M)	2.315 x2.315	351mV with 1/30s	8@8256x5616	1x1	0.1ms~3600s
	4/3"(19.11x13.00)		0.12mV with 1/30s	31@4128x2808	2x2	
SLV-26MPFL	26M/IMX571(C)	3.76 x3.76	485mv with 1/30s	6.8@6224x4168(16bit)	1x1	0.1ms~3600s
	1.8"(23.48x15.67)		0.07mv with 1/30s	14@6224x4168	1x1	
	APS-C			37@3104x2084	2x2	
				110@2064x1386	3x3	
SLV-26MMFL	26M/IMX571(M)	3.76 x3.76	871mv with 1/30s	6.8@6224x4168(16bit)	1x1	0.1ms~3600s
	1.8 "(23.48x15.67)		0.07mv with 1/30s	14@6224x4168	1x1	
	APS-C			37@3104x2084	2x2	
				110@2064x1386	3x3	
SLV-21MPFL	21M/IMX269(C)	3.3 x3.3	400mv with 1/30s	5@5280x3956	1x1	0.1ms~3600s
	4/3"(17.4x13.1)		0.1mv with 1/30s	6@3952x3952	1x1	
				15@2640x1978	2x2	
				50@1760x1318	3x3	
				100@584x440	9x9	
SLV-20MPFL Hot	20M/IMX183(C)	2.4 x2.4	462mv with 1/30s	5@5440x3648	1x1	0.1ms~3600s
	1 "(13.056x8.755)		0.21mv with 1/30s	10@4096x2160	1x1	
				15@2736x1824	2x2	
				30@1824x1216	3x3	
SLV-20MMFL	20M/IMX183(M)	2.4 x2.4	388mv with 1/30s	17.8@5440x3648	1x1	0.1ms~3600s
	1 "(13.056x8.755)		0.21mv with 1/30s (F8.0)	41@4096x2160	1x1	
				51@2736x1824	2x2	
				64@1824x1216	3x3	
SLV-10.3MPFL	10.3M/IMX294(C)	4.63 x4.63	419mv with 1/30s	30.2@4128x2808	1x1	0.15ms~3600s

	4/3“(19.11x13.0)		0.12mv with 1/30s	38.5 @4096x2160	1x1	
				69.5@2048x1080	2x2	
				96.1@1360x720	3x3	
SLV-9MPFL	9M/IMX533(C)	3.76 x3.76	534mv with 1/30s	20@2992x3000(14bit)	1x1	0.1ms~3600s
	1”(11.28x11.28)		0.1mv with 1/30s	40@2992x3000	1x1	
				62@1488x1500	2x2	
				186@992x998	3x3	
SLV-8.3MPFL	8.3M/IMX485(C)	2.9x2.9	2188mv with 1/30s	43@3840x2160	1x1 2x2	0.1ms~3600s
	1/1.2”(11.14x6.26)		0.15mv with 1/30s	66@1920x1080		
SLV-7MPFL	7.0M/IMX428(C , GS)	4.5 x4.5	2058mv with 1/30s	12@3200x2200	1x1	0.1ms~3600s
	1.1“(14.4x9.9)		0.15mv with 1/30s	33@1600x1100	1x1	
SLV-7MMFL	7.0M/IMX428(M , GS)	4.5 x4.5	3354mv with 1/30s	51@3200x2200	1x1	0.1ms~3600s
	1.1“(14.4x9.9)		0.15mv with 1/30s	133@1600x1100	1x1	
SLV-1.7MMFL	1.7M/IMX432(C , GS)	9.0 x9.0	4910mv with 1/30s	33@1600x1100	1x1	0.1ms~3600s
	1.1“(14.4x9.9)		0.3mv with 1/30s			
SLV-1.7MPFL	1.7M/IMX432(M , GS)	9.0 x9.0	8100mv with 1/30s	94@1600x1100	1x1	0.1ms~3600s
	1.1“(14.4x9.9)		0.3mv with 1/30s			

Remark:C - Color, M-Monocolor, GS-GS Shutter

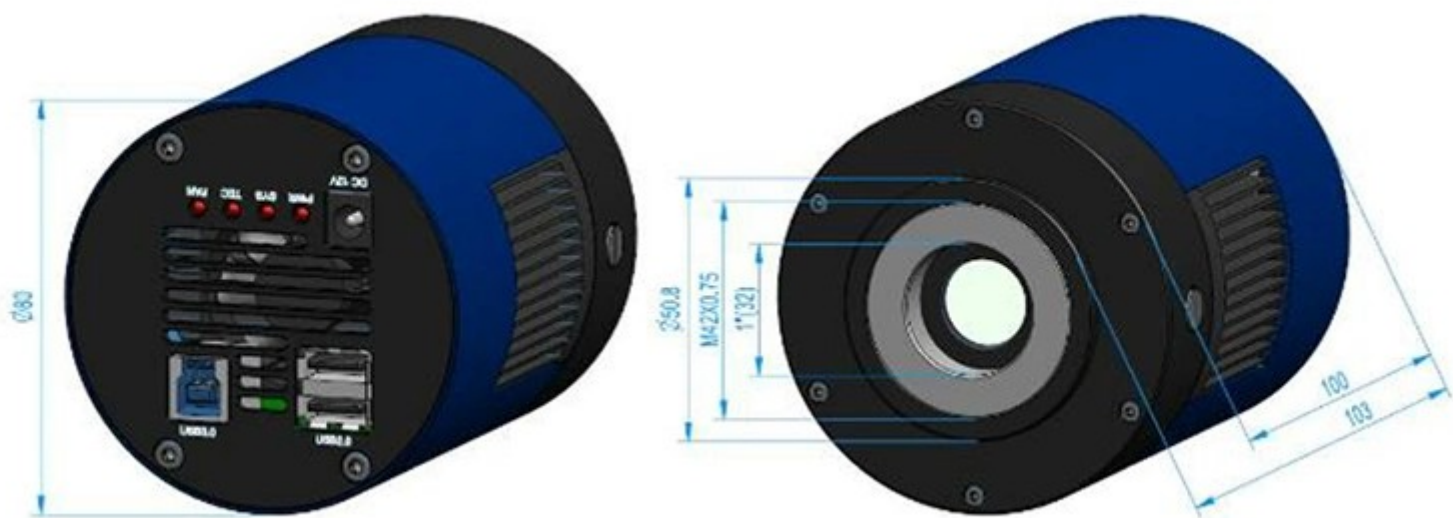
OTHER HARDWARE CONFIGURATION	
Spectral Range	380-650nm (with IR-filter), for Monochromatic Camera, AR Is Used
White Balance	ROI White Balance/ Manual Temp-Tint Adjustment
Color Rendering Tech.	Ultra Fine Color Engine
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc)
Recording System	Still Picture and Movie
Cooling System*	Two-stage TE-cooling System -42 °C below Camera Body Temperature

OPERATING ENVIRONMENT	
Operating Temperature	-10 °C~ 50 °C
Storage Temperature	-20 °C~ 60 °C
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port External Power Adapter for Cooling System, DC12V,3A

SOFTWARE ENVIRONMENT	
Operating System	Support Microsoft Windows XP / Vista / 7 /8 /10(32 & 64 bit) OS X (Mac OS X), Linux
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher Memory: 2GB or more USB port: USB2.0 High-speed Port Display: 17"or Larger CD-ROM

Dimension of SLV-MPFL Series Camera

SLV-MPFL body, made from CNC aluminium alloy, ensures a heavy duty, workhorse solution. The camera is designed with a high-quality IR-CUT to protect the camera sensor. No moving parts included. This design ensures a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions



SLV-20MPFL Packing list



Packing List of SLV-20MPFL Series Camera

Standard Outfit	
A	Carton L:50cm W:30cm H:30cm (20pcs, 12~17Kg/ carton), not shown in the photo (TBD)
B	3-A safety equipment case: L:28cm W:23cm H:15cm (1pcs, 2.8Kg/ box); Carton size L:28.2cm W:25.2cm H:16.7cm (TBD)
C	Digital camera
D	Drying tube and desiccant
E	Power adapter: input: AC 100-240V, 50Hz/60Hz, output: DC12V 3A
F	High-speed USB3.0 A male to B male gold-plated connectors cable /1.5m
G	CD (Driver & utilities software, Ø12cm)

Optional Accessory

H	Focus Adjustable Eyepiece Adapter	For Microscope	0.37x, C-Mount to Dia.23.2mm
			0.50x, C-Mount to Dia.23.2mm
			0.75x, C-Mount to Dia.23.2mm
		For Telescope	0.37x, C-Mount to Dia.31.75mm
			0.50x, C-Mount to Dia.31.75mm
			0.75x, C-Mount to Dia.31.75mm
I	Focus Fixed Eyepiece Adapter	For Microscope	0.37x, C-Mount to Dia.23.2mm
			0.50x, C-Mount to Dia.23.2mm
			0.75x, C-Mount to Dia.23.2mm
		For Telescope	0.37x, C-Mount to Dia.31.75mm
			0.50x, C-Mount to Dia.31.75mm
			0.75x, C-Mount to Dia.31.75mm
J	Adaptor Rings Dia.23.2mm to 30.0mm For 30.0mm Microscope Eyepiece Tube		
K	Adaptor Rings Dia.23.2mm to 30.5mm For 30.5mm Microscope Eyepiece Tube		
L	Calibration Stage Micrometer	X=0.01mm/100Div.	
		X,Y=0.01mm/100Div	
		X=0.01mm/100Div., 0.10mm/100Div	



Camera Connect To Microscope



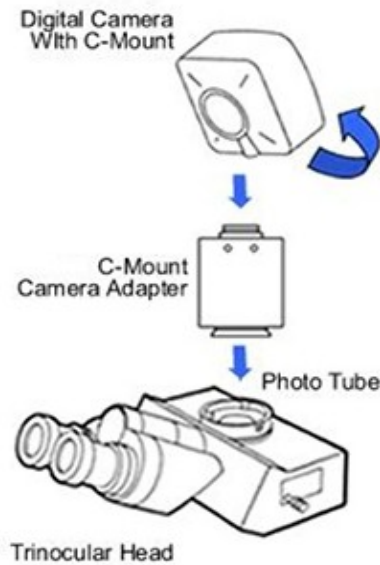
C-Mount to 23.2mm Adapter
For Microscope



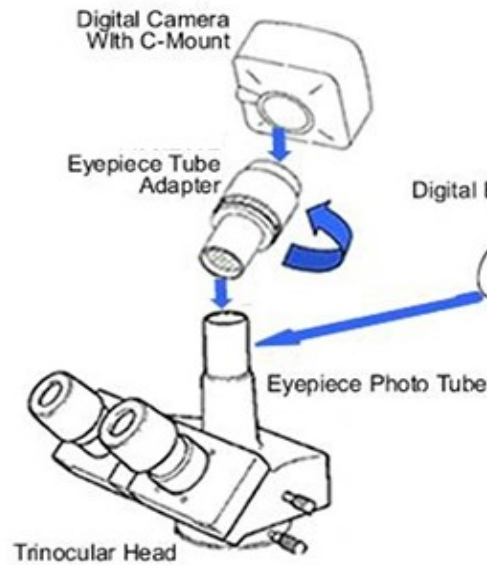
C-Mount to 31.75mm Adapter
For Telescope

How Camera Connect To Microscope

1. To Trinocular Microscope
On Straight Photo Tube



2. To Trinocular Microscope
On Eyepiece Photo Tube



3. To Binocular Microscope
On Eyepiece Tube

