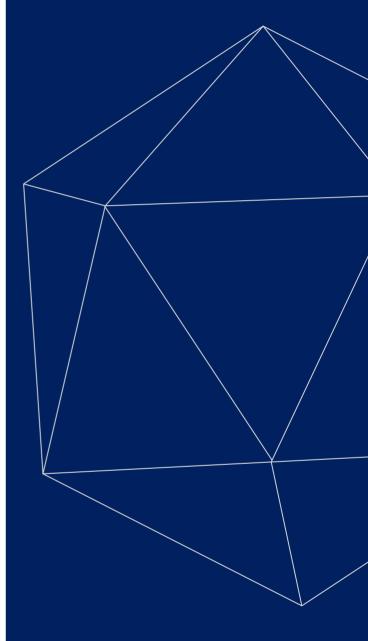




LABORATORY LINES MICROSCOPE





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KALSTEIN® Microscope

USB 3.0 CMOS DIGITAL CAMARA, HIGH FPA FLUORESCENT IMAGE, 1,5M-45M

Model YR0A59.2213







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Product Software



YR0A59.2213 USB3.0 CMOS Digital Camera, High Fps, Fluorescent Image, 1.5M~45M

YR0A59.2213 adopt SONY Exmor CMOS sensor as the image-picking device and USB3.0 is used as the transfer interface. A59.2213 hardware resolutions range from 1.5M to 45M and come with the integrated CNC aluminum alloy compact housing.

YR0A59.2213 integrated with 12 bit Ultra-fine Hardware Image Signal Processor Video Pipline (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. This will move the heavier burden of the processing from the PC to the Ultra-fine TM HISPVP and greatly accelerating the processing speed.



YR0A59.2213 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.);

YR0A59.2213 can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate.





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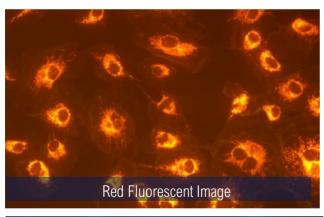
YR0A59.2213 Features & Sample Pictures

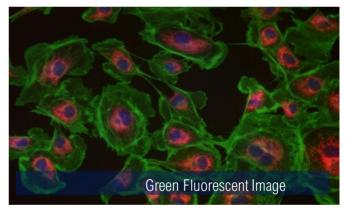






- $\sqrt{\,}$ USB3.0 Digital Camera SONY Exmor Back-illuminated CMOS Sensors Resloution 1.5M \sim 45M
- √ Super High Sensitivity Up To 2350mV(IMX385), Ultra Low Noise For Fluorescent Image
- √ Ultra-Fine Color Hardware Color Enginne Ensuring High FPS Up To 15 Frames @ 20M
- √ Real-time 8/12/14/16 Bit Depth Switch, Integrated CNC Aluminum Alloy Compact Housing
- √ With Advanced Video & Image Processing Software Image View, Support SDK For Win/Linux/Mac/Android











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YR0A59.2213 Specification







YR0A59.2213 USB3.0 CMOS Digital Camera, High Fps, Fluorescent Image, 1.5M~45M						
Cata. No.	Sensor & Size(mm)	Pixel(µm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
	45M/IMX294(C) 1.4" (18.93x13.00)	2.315x2.315		8.1@8176x5616	1x1(3:2)	0.1ms~15s 0.1ms~15s 0.1ms~15s
				30.0@4088x2808	2x2(3:2)	
				8.1@7408x5556	1x1(4:3)	
			108mv with 1/30s	33.0@4088x2808	2x2(4:3)	
45MPA			0.03mv with 1/30s	10.4@8176x4320	1x1(17:9)	
				34.7@4096x2160	2x2(17:9)	
				62.5@2048x1080	3x3(17:9)	
				86.5@1344x720	4x4(17:9)	
45MPB	45M/IMX492(C) 1.4" (18.93x13.00)	2.315x2.315	108mv with 1/30s 0.03mv with 1/30s	8.1@8176x5616	1x1	0.1ms~15s
	2014/114/2014/01		108mv with 1/30s	8.1@5600x5600	1x1	
32MPA	32M/IMX294(C) 1.15" (12.96x12.96)	2.315x2.315	0.03mv with 1/30s	30.0@2800x2800	2x2	0.1ms~15s
	1.10 (12.90x12.90)		 	30.0@1400x1400	4x4	
				17@5280x3954	1x1	0.1ms~15s
	21M/IMX269 (C) 4/3 "(17.4x13.0)	3.3 x3.3	399mv with 1/30s	17@3952x3952	1x1	
21MPA			0.1mv with 1/30s	56@2640x1976	2x2	
			i 	67@1760x1316	3x3	
 			ļ Ļ	192@584x438	9x9	
20MPA	20M/IMX183(C)		462mv with 1/30s	15@5440x3648	1x1	
Hot	1 "(13.06x8.76)	2.4 x2.4	0.21mv with 1/30s	50@2736x1824	2x2	0.1ms~15s
1100	1 (10.00%0.10)	<u> </u> 	i 	60@1824x1216	3x3	
	20M/IMX183(C)	2.4 x2.4	462mv with 1/30s	20@5440x3648	1x1	0.1ms~15s
20MPC	1 "(13.06x8.76)		0.21mv with 1/30s	48@2736x1824	2x2	
	. (10.00%01.0)	i 	 	58@1824x1216	3x3	
101/101	18M/SONY Special(C) 1/2.2	1.2 x1.2	130mv with 1/30s	17@4880x3720 40@2448x1836	1x1	0.1ms~15s
18MPA	"(5.86x4.46)	1.2 X1.2	0.1mv with 1/30s	50@1728x1296	2x2 3x3	0.11115~135
45.01.51	15.6M/SONY	0.0.00	399mv with 1/30s	17@3952x3952	1x1	0.4 45
15.6MPA	Special(C) 1.1 "(13.0x13.0)	3.3 x3.3	0.1mv with 1/30s	56@1976x1976 67@1316x1316	2x2 3 x3	0.1ms~15s
	12.3M/IMX304(C, GS)	 ¦	1146mv with 1/30s	22 4@400ev2000	1x1]
12.3MPA	1.1"(14.13x10.35)	3.45x3.45	0.1mv with 1/30s	23.4@4096x3000 46.3@2048x1500	1x1	0.244ms~15s



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YR0A59.2213 Specification



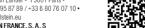
12MPA	12M/IMX226(C)	1.85x1.85	280mv with 1/30s	25@4000x3000	1x1	0.1ms~15s
Hot	1/1.7"(7.40x5.55)	-	0.1mv with 1/30s	50@2048x1080	2x2	
	·	- 				
12MPB	12M/IMX577(C)	1.55x1.55	250mv with 1/30s	30@4056x3040	1x1	0.1ms~5s
	1/2"(6.29x4.71)		0.25mv with 1/30s	60@2028x1520	2x2	
9MPA	9.0M/IMX305(C,GS)	3.45x3.45	1146mv with 1/30s	120@1014x760 34@4096x2160	4x4 1x1	0.1ms~15s
SIVIPA		3.43x3.43				
	1" (14.13x7.45)		0.15mv with 1/30s	60@2048x1080	1x1	
9МРВ	9.0M/IMX533(C)	3.76x3.76	535mv with 1/30s	40@3008x3000	1x1	0.1ms~15s
	1" (11.31x11.28)		0.04mv with 1/30s	123@1488x1500	2x2	
8.3MPA	8.3M/IMX274(C)	1.62x1.62	236mv with 1/30s	186@992x998 32@3840x2160	3x3 1x1	0.244ms~15s
0.5141171				65@1920x1080		
	1/2.5"(6.22x3.50)	 	0.1mv with 1/30s		2x2	
8.3MPB	8.3M/IMX334(C)	2.0x2.0	505mv with 1/30s	35@3840x2160	1x1	0.02ms~15s
	1/1.8"(7.68x4.32)	-1	0.1mv with 1/30s	60@1920x1080	2x2	
8.3MPC	8.3M/IMX485(C)	2.9x2.9	2188mv with 1/30s	45@3840x2160	1x1	0.02ms~15s
	1/1.2"(11.14x6.26)	- i	0.15mv with 1/30s	70@1920x1080	2x2	
8.3MPD	8.3M/IMX585(C)	2.9x2.9	5970(mV/lx/s)	45@3840x2160	1x1	0.02ms~15s
	1/1.2"(11.14x6.26)		0.13mv with 1/30s	70@1920x1080	2x2	
8.3MPE	8.3M/IMX678(C)	2.0x2.0	3541(mV/lx/s)	45@3840x2160	1x1	0.02ms~15s
	1/1.8"(7.68x4.32)		0.15mv with 1/30s	70@1920x1080	2x2	
8MPA	8.0M/IMX294©	4.63 x4.63	419mv with 1/30s	30@2808x2808(14bit)	1x1	0.1ms~15s
 	1.15 "(13.00x13.00)	-{ 	0.12mv with 1/30s	139@1392x1392	2x2	
ļ				139@696x696	4x4	
6.3MPA	6.3M/IMX178(C)	2.4x2.4	425mv with 1/30s	30@3072 x2048	1x1	0.1ms~15s
-	1/1.8" (7.37x4.92)		0.15mv with 1/30s	38@1536x 1024	2x2	
6.3MPB	6.3M/IMX178(C)	2.4x2.4	425mv with 1/30s	59@3072 x2048	1x1	0.02ms~15s
	1/1.8" (7.37x4.92)	- i	0.15mv with 1/30s	59@1536x 1024	2x2	
5MPA	5.0M/IMX264(C,GS)	3.45x3.45	1146mv with 1/30s	35@2448x2048	1x1	0.1ms~15s
•	2/3" (8.45x7.07)		0.15mv with 1/30s	50@1224x1024	1x1	
3.1MPA	3.1M/IMX265(C,GS)	3.45x3.45	1146mv with 1/30s	53@2048x1536	1x1	0.1ms~15s
	1/1.8" (7.07x5.30)		0.15mv with 1/30s	85@1024x768	1x1	
3.1MPB	3.1M/IMX123(C)	2.5x2.5	600mv with 1/30s	50@2048x1536	1x1	0.1ms~15s
	1/2.8" (5.12x3.84)	- 	0.15mv with 1/30s	50@1920x1080	1x1	
2.1MPA	2.1M/IMX482(C)	5.8x5.8	8935mv with 1/30s	96@1920x1080	1x1	14us~15s
	1/1.2"(11.14x6.26)	- 	0.6mv with 1/30s	 		
2MPA	2M/IMX385(C)	3.75x3.75	2350mv with 1/30s	125@1920x1080	1x1	0.1ms~15s
	1/2" (7.2x4.05)	- i	0.15mv with 1/30s			
1.5MPA	1.5M/IMX273(C,GS)	3.45x3.45	1146mv with 1/30s	164@1440x1080	1x1	0.1ms~15s
 - - - -	1/2.9" (4.968x3.726)		0.15mv with 1/30s	320@720x540	2x2	
L		Remark: C - Co	lor, M-Monocolor, GS-GS Shutter	<u>l</u> -		Ĺ

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	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*	Natural			







YR0A59.2213 Specification

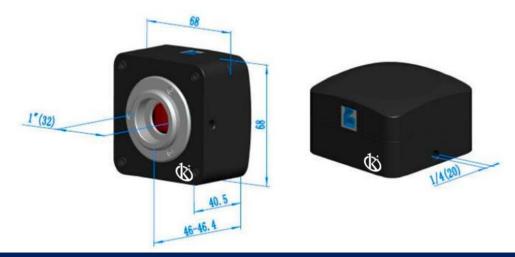


OPERATING ENVIRONMENT				
Operating Temperature	-10 °C~ 50 °C			
Storage Temperature -20 °C~ 60 °C				
Operating Humidity	30~80%RH			
Storage Humidity 10~60%RH				
Power Supply DC 5V over PC USB Port				
SOFTWARE ENVIRONMENT				
Operating System	Support Microsoft Windows XP / Vista / 7 /8 /10(32 & 64 bit)			

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

Dimension of YRA59.2213 Series Camera

YRAA59.2213 Series body, made from CNC aluminum 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..



How To Choose C-Mount According to Digital Camera SensorSize

To choose camera adapter (C-Mount) or eyepiece adapter correctly, please refer to the quick table "Digital Camera Sensor Size & C-Mount". Choose the adapter's (C-Mount) magnification according to your camera's sensor size, you can get the best view field under camera watching.

Or you can specify the cameras choosed, and its usage (for Microscope or for Telescope), Opto-Edu sales manager will assist you to choose adapters correctly.

	Digital C	Digital Camera Sensor Size & C-Mount			
	Sensor Size	Diagonal Size	C Mount Compltable		
	1"	16mm	1.0x		
1	2/3''	10.6mm	0.75x/0.63x		
	1/1.8''	8.8mm	0.5x/0.55x		
	1/2''	8mm	0.5x		
	1/2.5''	6.4mm	0.5x		
	1/2.8''	5.7mm	0.5x		
	1/3''	5.3mm	0.3x		
	1/4''	4mm	0.3x		
	Remark: 1''=16mm For Digital Camera's Diagonal Size				



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YR0A59.2213 Packing List





			J			
	P	acking List of YR	0A59.2213 Series Camera			
		Sta	andard Outfit			
А	Ca	Carton L:52cm W:32cm H:33cm (20pcs, 12~17Kg/ carton), not shown in the photo				
В		Gift bo	x L:15cm W:15cm H:10cm (0.5~55Kg/ box)			
С			Digital camera			
D		High-speed USB2	.0 A male to B male gold-plated connectors	cable /2.0m		
E		(CD (Driver & utilities software, Ø12cm)			
		Optio	onal Accessory			
		For Microscope	0.37x, C-Mount to Dia.23.2mm		YR0A55.2202-A37	
		T of Wholesoppe	0.50x, C-Mount to Dia.23.2mm		YR0A55.2202-A50	
	Focus Adjustable		0.75x, C-Mount to Dia.23.2mm	Anadi	YR0A55.2202-A75	
F	Eyepiece Adapter	For Telescope	0.37x, C-Mount to Dia.31.75mm		YR0A55.2204-A37	
		Tor relescope	0.50x, C-Mount to Dia.31.75mm		YR0A55.2204-A50	
			0.75x, C-Mount to Dia.31.75mm		YR0A55.2204-A75	
	Focus Fixed Eyepiece Adapter	For Microscope	0.37x, C-Mount to Dia.23.2mm		YR0A55.2202-F37	
		1 of Wholoscope	0.50x, C-Mount to Dia.23.2mm		YR0A55.2202-F50	
			0.75x, C-Mount to Dia.23.2mm		YR0A55.2202-F75	
G		For Telescope	0.37x, C-Mount to Dia.31.75mm	The same	YR0A55.2204-F37	
		1 of Toloscope	0.50x, C-Mount to Dia.31.75mm		YR0A55.2204-F50	
			0.75x, C-Mount to Dia.31.75mm		YR0A55.2204-F75	
Н	Adaptor Rings Dia.23.2mm to 30.0mm For 30.0mm Microscope Eyepiece Tube Adaptor Rings Dia.23.2mm to 30.5mm For 30.5mm Microscope Eyepiece Tube Adaptor Rings Dia.23.2mm to 31.75mm For 31.75mm Telescope Eyepiece Tube			Tast Control	YR0A55.2203-30	
1				8	YR0A55.2203-30.5	
J				115.5 4 8 70	YR0A55.2203- 31.75	
			X=0.01mm/100Div.			
K	Calibration Stage Micrometer	X,Y=0.01mm/100Div				
	Grage Milorometer	X=0.0	X=0.01mm/100Div., 0.10mm/100Div		DIV=0.01mm	



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Camera Connect To Microscope





YR0A55.2002 C-Mount to 23.2mm Adapter For Microscope

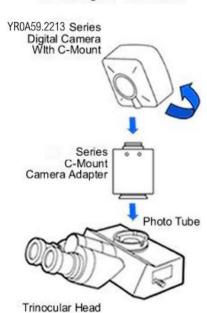
YR0A55.2004 C-Mount to 31.75mm Adapter For Telescope

3. To Binocular Microscope

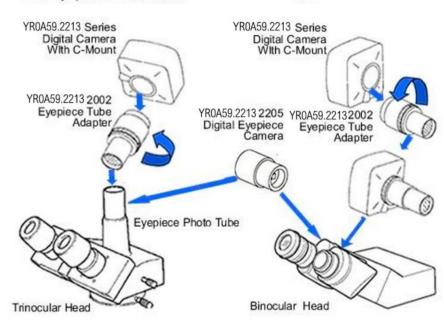
On Eyepiece Tube

How Camera Connect To Microscope

To Trinocular Microscope
 On Straight Photo Tube



2. To Trinocular Microscope On Eyepiece Photo Tube











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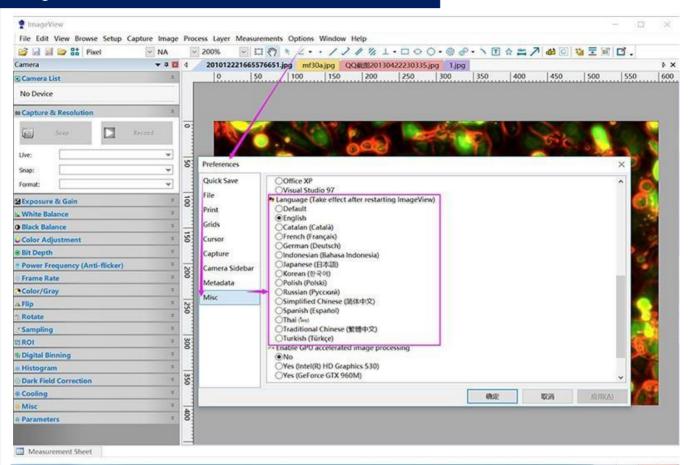


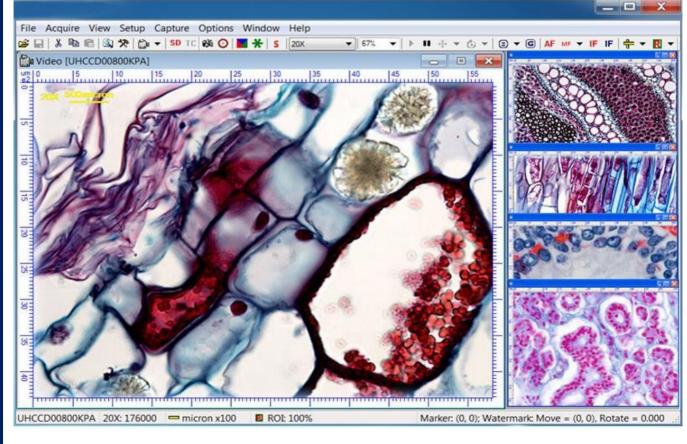
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Image View Software for Windows









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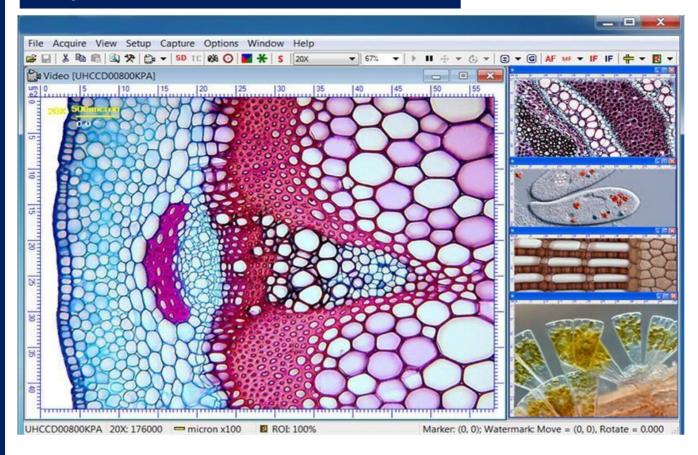


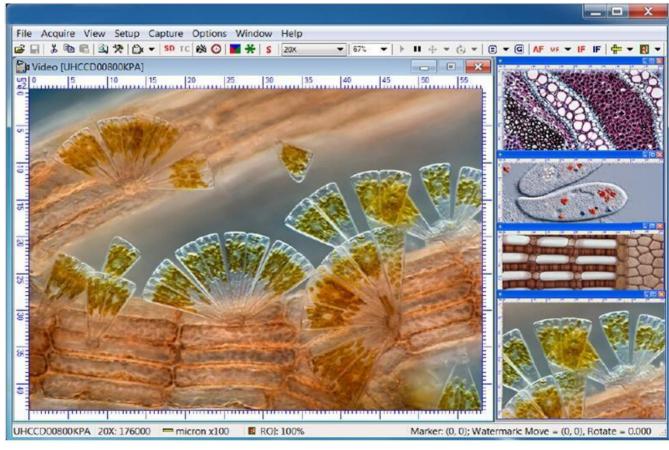
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Image View Software for Windows









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