

LIGHT-FIELD / PLENOPTIC CAMERA MODEL	PLENOPTIC 4D SENSOR BASELINE	EXCHANGEABLE OPTICS	MAX. FRAMERATE IN FPS	MAX. BEST-CASE LATERAL RESOLUTION IN MP	TYPICAL STANDARD FOCAL LENGTHS IN MM	MICROSCOPY MAGNIFICATION	MLA APERTURE F/NUMBER	LIGHT-FIELD MEGARAYS RESOLUTION
R8 (Video)	XS	C-Mount	30	2	(8, 12, 16), 25, 35, 50, 75		2.8	8
	Pixel Size in microns				2.24			
	Electronic Shutter				Rolling Shutter with Global Start			
	PIV/PTV Mode							
	Computer Interface				USB3			
Image Sensor					Toshiba			
R42	XS	C-Mount	7	10	(8, 12, 16), 25, 35, 50, 75		2.8	41.3
	Pixel Size in microns				1.12			
	Electronic Shutter				Rolling Shutter with Global Start			
	PIV/PTV Mode							
	Computer Interface				USB3			
Image Sensor					Toshiba			
R10µ Microscopy	XS	C-Mount	7	2.5		5x / 10x / 20x	26	10
	Pixel Size in microns				2.24			
	Electronic Shutter				Rolling Shutter with Global Start			
	PIV/PTV Mode							
	Computer Interface				USB3			
Image Sensor					Toshiba			
R20µ Microscopy	S	C-Mount	5 (GigE) 17 (USB3)	5		5x / 10x / 20x	26	20
	Pixel Size in microns				2.4			
	Electronic Shutter				Rolling Shutter with Global Start, Global			
	PIV/PTV Mode							
	Computer Interface				USB3, GigE			
Image Sensor					Sony			
R12µ Microscopy (Video, PIV)	S	C-Mount	5 (GigE), 30 (USB3), 60 (CXP)	3		5x / 10x / 20x	26	12
	Pixel Size in microns				3.45			
	Electronic Shutter				Rolling Shutter with Global Start, Global			
	PIV/PTV Mode				CCD Double-Shot			
	Computer Interface				USB3, GigE, CXP			
Image Sensor					Sony, On-Semi			
R25µ Microscopy Video	S	C-Mount	90 (CXP)	6.25		5x / 10x / 20x	26	25
	Pixel Size in microns				2.5			
	Electronic Shutter				Global			
	PIV/PTV Mode				CMOS High-Speed			
	Computer Interface				CXP			
Image Sensor					Gpixel			
R12 Video	M	C-Mount, F-Mount, Nikon, M42, M58	60 (CL), 90 (10GigE) 180 (CXP), 330 (CXP)	3	(28, 35), 50, 60, 100, 135, 200	up to 3x	2.4 / 5.6	12.6
	Pixel Size in microns				5.5			
	Electronic Shutter				Global			
	PIV/PTV Mode				CMOS High-Speed			
	Computer Interface				CXP, Camera-Link, 10GigE			
Image Sensor					AMS			
R26 Video	M	F-Mount, Nikon, M42, M58	30 (CL), 80 (CXP)	6.25	28, 35, 50, 60, 100, 135, 200	up to 3x	2.4 / 4 / 5.6	26
	Pixel Size in microns				4.5			
	Electronic Shutter				Global			
	PIV/PTV Mode							
	Computer Interface				10GigE, CXP, Camera-Link			
Image Sensor					On-Semi			
R29 PIV	L	F-Mount, Nikon, M42, M58	2, 5	7.2	28, 35, 50, 60, 100, 135, 200	up to 3x	8-Jul	28.8
	Pixel Size in microns				5.5			
	Electronic Shutter				Global			
	PIV/PTV Mode				CCD Double-Shot			
	Computer Interface				GigE, Camera-Link			
Image Sensor					On-Semi			
R65 Video	L	F-Mount, Nikon, M42, M58	30, 60	16.25	28, 35, 50, 60, 100, 135, 200	up to 3x	2.4 / 4 / 5.6	65
	Pixel Size in microns				3.2			
	Electronic Shutter				Global			
	PIV/PTV Mode							
	Computer Interface				CXP, CXP 2.0			
Image Sensor					Gpixel			
R50 Video	XL	F-Mount, Nikon, M42, M58	30	11.875	28, 35, 50, 60, 100, 135, 200	up to 3x	2.4 / 4 / 5.6	47.6
	Pixel Size in microns				4.6			
	Electronic Shutter				Global			
	PIV/PTV Mode							
	Computer Interface				CXP			
Image Sensor					AMS			

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R150	XXL	M72	6	37.75	3.76		Customized	151
	Pixel Size in microns							
	Electronic Shutter				Rolling Shutter with Global Start			
	PIV/PTV Mode							
	Computer Interface				CXP			
Image Sensor				Sony				
Customized Rx Light-Field Plenoptic Cameras	Area- or Line-Scan	S-Mount to M72 or larger	up to ultra high-speed	25% of Megaray Resolution		Microscope, Endoscope, Macro, Tele, Lensless/Lens free etc.	>1.8	4 to 200 and more
	Pixel Size in microns							
	Electronic Shutter				Rolling or Global			
	PIV/PTV Mode				sCMOS, CMOS, CCD			
	Computer Interface				USB3, 10GigE, PCIe, CL, CXP2, etc.			
Image Sensor				Toshiba, Sony, On-Semi, AMS, CMOSIS, Gpixel, DALSA, etc.				