

the most versatile
scientific camera portfolio
on the market

overview


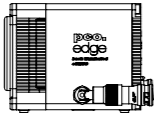
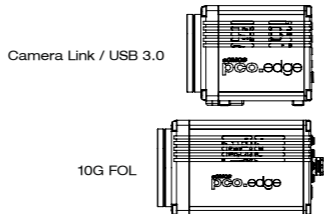
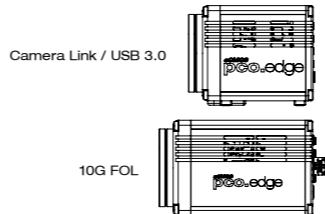
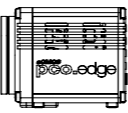



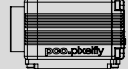


pcO.

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overview

technical table	pcO.edge 26	pcO.edge 4.2 bi	pcO.edge 4.2			pcO.edge 5.5			pcO.edge 3.1	pcO.panda 4.2 bi	pcO.panda 4.2	pcO.ultraviolet	pcO.pixelfly	
sensor technology	global shutter sCMOS	back illuminated sCMOS	sCMOS			sCMOS			sCMOS	back illuminated sCMOS	sCMOS	interline CCD	interline CCD	
resolution [pixel]	5120 x 5120	2048 x 2048	2048 x 2048			2560 x 2160			2048 x 1536	2048 x 2048	2048 x 2048	1392 x 1040	1392 x 1040	
pixel size [µm]	2.5 x 2.5	6.5 x 6.5	6.5 x 6.5			6.5 x 6.5			6.5 x 6.5	6.5 x 6.5	6.5 x 6.5	4.65 x 4.65	6.45 x 6.45	
interface	USB 3.1 Gen 1	USB 3.1 Gen 1	10G FOL (CLHS)	Camera Link	USB 3.0	10G FOL (CLHS)	Camera Link	USB 3.0	USB 3.0	USB 3.1 Gen 1	USB 3.1 Gen 1	USB 2.0	USB 2.0	
max. frame rate @ full resolution [fps]	7	40	100			40	100		30	50	40	40	7	13
max. data rate [Mbyte/sec]	320	320	800	800	320	1055		316	300	320	320	20	37	
peak quantum efficiency [%]	65	95	82			60			60	95	80	40 @ 193 nm	62	
min. read noise [e ⁻]	2.3	1.8	0.8	0.9	0.8	1.0	1.1	1.0	1.1	1.8	2.1	7.0	5.0	
max. dynamic range	2000 : 1	26600 : 1	37500 : 1	33000 : 1	37500 : 1	30000 : 1	27000 : 1	30000 : 1	27000 : 1	26600 : 1	21400 : 1	1750 : 1	2660 : 1	
shutter type	GS	RS	RS	RS, GR	RS, GR	RS, GS, GR			RS, GS, GR	RS	RS	GS	GS	
RS = rolling shutter GS = global shutter GR = global reset														
sensor cooling	2-TEC air & water	2-TEC air & water	1-TEC air or water	1-TEC air & water	1-TEC air or water	1-TEC air or water	1-TEC air & water	1-TEC air	-	-	-	-	-	
1-TEC = 1 stage thermoelectric cooler typ. +0°C .. +10°C 2-TEC = 2 stage thermoelectric cooler = typ. -20°C .. -30°C air = air forced with fan water = external water connection														
additional options	-	UV version	lens control	-	-	lens control color sensor	color sensor	color sensor	color sensor	UV version	color sensor	-	color sensor	
dimensions H x W x L [mm]	85 x 80 x 103	85 x 80 x 103	80 x 70 x 100 Camera Link / USB 3.0			80 x 70 x 100 Camera Link / USB 3.0			80 x 70 x 100	65 x 65 x 65	65 x 65 x 65	50 x 50 x 80	39 x 47 x 73	
			80 x 70 x 123 10G FOL			80 x 70 x 123 10G FOL								
camera housing														

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