

	unit	setpoint	pco.pixelfly usb
resolution (hor x ver) ¹	pixel	normal mode center mode	1392 x 1040 800 x 600
pixel size (hor x ver)	µm ²		6.45 x 6.45
sensor format	inch		2/3"
sensor diagonal	mm		11.14
quantum efficiency (peak)	%	500nm typical 750nm typical	62 32
full well capacity	e ⁻	full frame	16 000
dark current	e ⁻ /pixel · s	23 °C typical 45 °C typical	1 10
image sensor			ICX285AL
maximum dynamic range	dB	full frame	66
dynamic range A/D ²	bit	standard transfer mode ³	14 12
read out noise	e ⁻ rms	12 MHz 24 MHz	< 10 < 12
imaging frequency (frame rate)	fps	12/24 MHz @ normal 12/24 MHz @ normal, V2 binning 12/24 MHz @ center 12/24 MHz @ center, V2 binning	7.3 / 13.5 14.7 / 27 11.7 / 21.6 21.8 / 40.4
pixel scan rate	MHz		12.000 / 24.000
A/D conversion factor	e ⁻ / count	standard	1.0
spectral range	nm		290 ... 1100
exposure time			5 µs ... 60 s
interframing time	µs	double shutter mode ⁴	1
anti-blooming factor		standard light mode NIR enhanced mode @100 ms expos. time	> 400 > 4
smear	%		< 0.002
optical input			c-mount
trigger, auxiliary signals		internal / external	software / TTL
monitor signals		exposure & busy	3.3 V LVTTTL
binning (hor x ver)		digital	1x1, 1x2, 2x1, 2x2
power supply	VDC	range typical	9 ... 28 V 12 V
power consumption	W		< 4
mechanical dimensions (w x h x l)	mm ³		39 x 39 x 83 w/o socket
weight	kg		0.25
ambient temperature	°C	range	+10 ... +45
operating humidity	%	range	10 ... 80
storage temperature	°C	range	-20 ... +70
data interface			USB 2.0
CE certified			yes

[1] horizontal versus vertical

[2] Analog-to-Digital-Converter

[3] user selectable (if maximum data throughput @ 14bit is limited by customer's PC performance)

[4] double shutter mode optional