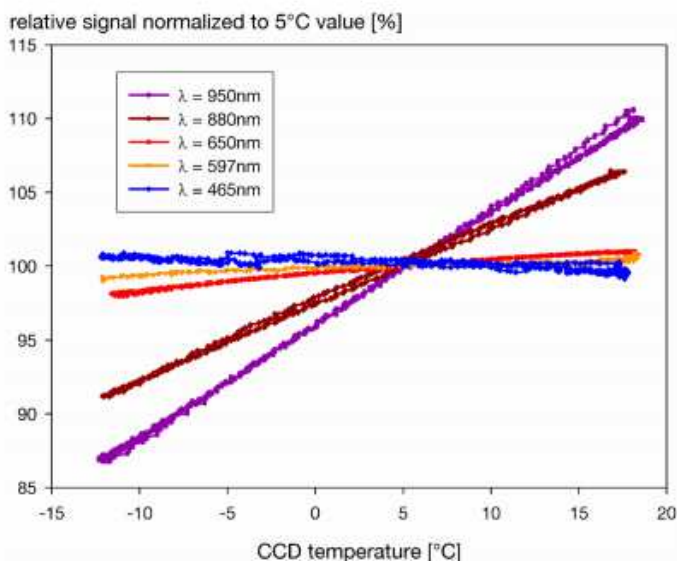
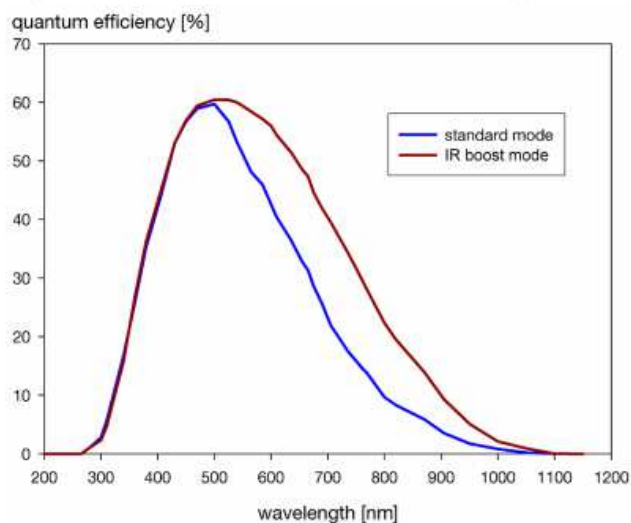


## ANEXO 1. Cámara pco.1300 solar.

	unit	setpoint	pco.1300 solar
resolution (hor x ver) <sup>1</sup>	pixel	@ normal mode @ extended mode	1392 x 1040 1424 x 1060
pixel size (hor x ver)	$\mu\text{m}^2$		6.45 x 6.45
sensor format / diagonal	inch / mm		2/3" / 11.14
quantum efficiency	%	@ 880nm typical @ +15 °C	13
full well capacity	$\text{e}^-$		16 000
dark current	$\text{e}^-/\text{pixel}\cdot\text{s}$	@ 10 °C typical @ standard mode	0.05
image sensor			ICX285AL
maximum dynamic range	dB	CCD + camera @ 10 MHz	68.5
dynamic range A/D <sup>2</sup>	bit		12
readout noise	$\text{e}^- \text{ rms}$	@ 10 / 20 MHz	6 / 10
imaging frequency, frame rate	fps	@ full frame @ 10 / 20 MHz	5.9 / 11.7
pixel scan rate	MHz		10 / 20
A/D conversion factor	$\text{e}^- / \text{count}$	standard / IR boost	3.8 / 1.9
spectral range	nm		290 .. 1200
exposure time	s	@ standard mode @ IR boost mode	5 $\mu\text{s}$ .. 1 h 100 ms .. 1 h



## quantum efficiency



	unit	setpoint	pco.1300 solar
anti-blooming factor		@ stand.light mode / @ IR boost mode @ 100 ms expos. time	> 400 / > 4
smear	%		< 0.002
binning (hor x ver)	pixel		1 x 1, 1 x 2, 2 x 1, 2 x 2
optical input			c-mount
trigger, auxiliary signals		internal / external	software / TTL level
power supply	VDC	typical	18..28 V 24 V
cooling method			1 stage Peltier cooler with forced air cooling
cooled CCD temperature	°C	versus ambient temperature	-25
power consumption	W	max.	20
mechanical dimensions (w x h x l)	mm <sup>3</sup>		113 x 104 x 110
weight	kg		1.1
ambient temperature	°C	range	+10 .. +40
operating humidity	%	range	10 .. 80
storage temperature	°C	range	-20 .. +70
data interface			IEEE 1394a