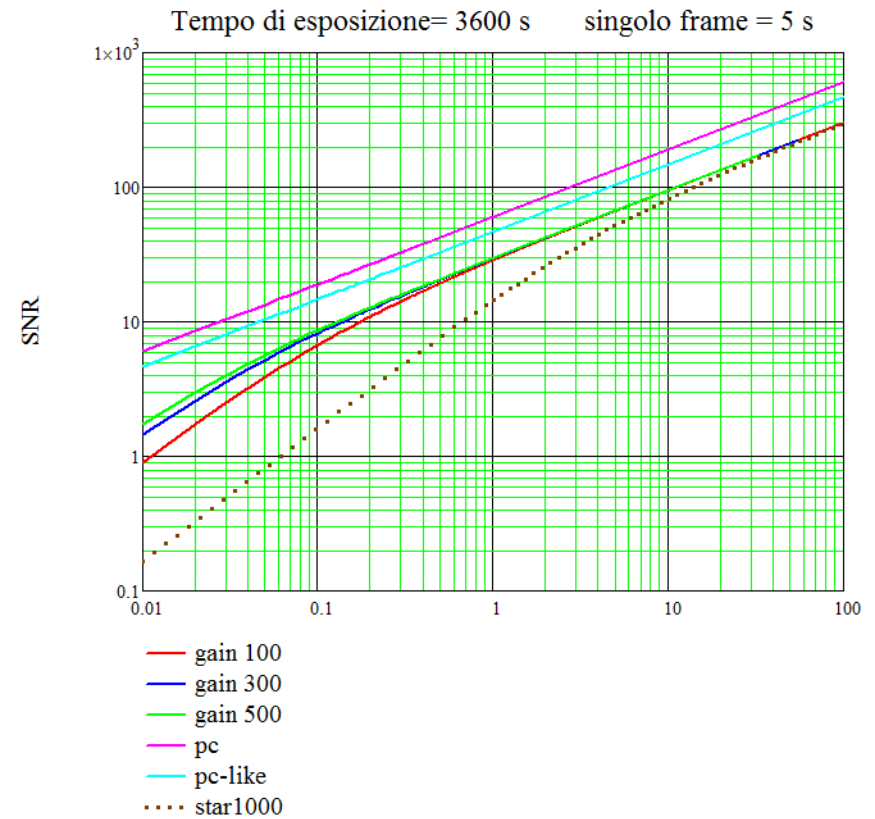
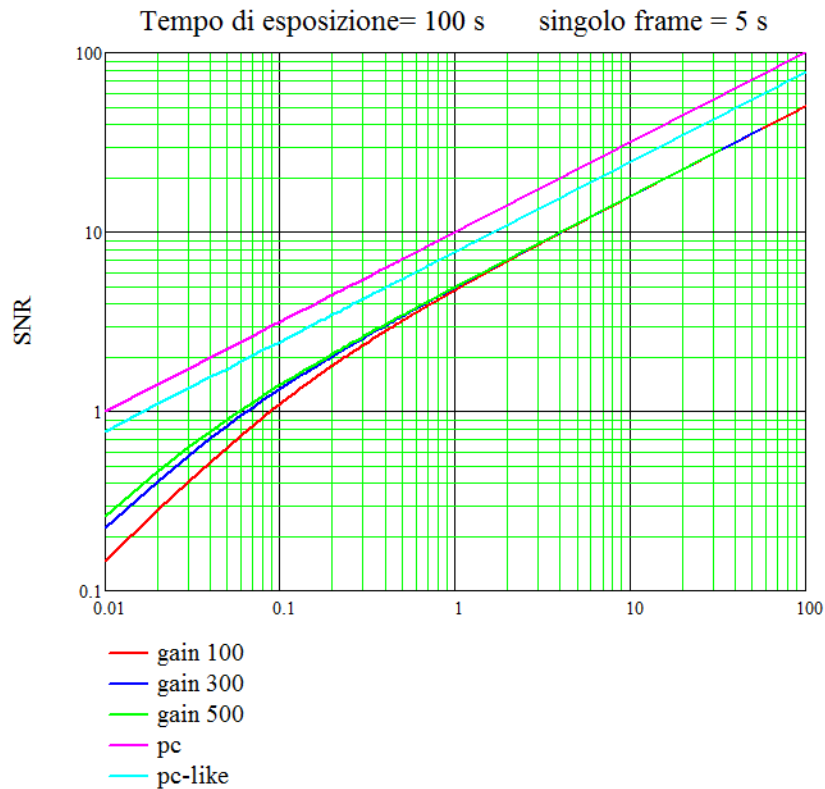


	Star1000	ISPHI	EUI detectors
Format	1Kx1K	2Kx2K	2Kx2K 3Kx3K
Pixel size	15 μm	10 μm	10 μm
Readout noise	47 e-	51 e-	5 e-
Dark current	3135 e-/pixel/s @ 20°C	200 e-/pixel/s @ 20°C	10 e-/s/pix @ -40 °C (25)
Max frame rate	11 frames/s	11 frames/s	10 frames/s
QE	20%	62% @ 617 nm fringing	60%
Full well capacity	135,000 99,000 < 5%	100,000 < 2%	83,000
FW/RN	69 dB tot ~2800 tot ~2100 < 5%	66 dB < 2% ~1900 < 2%	86 dB 21,000
Windowing	yes	No?	Yes?
Binning	no	no	No?
Electronics available?	MPS	MPS	?
Geometry	FI	FI	BI & FI

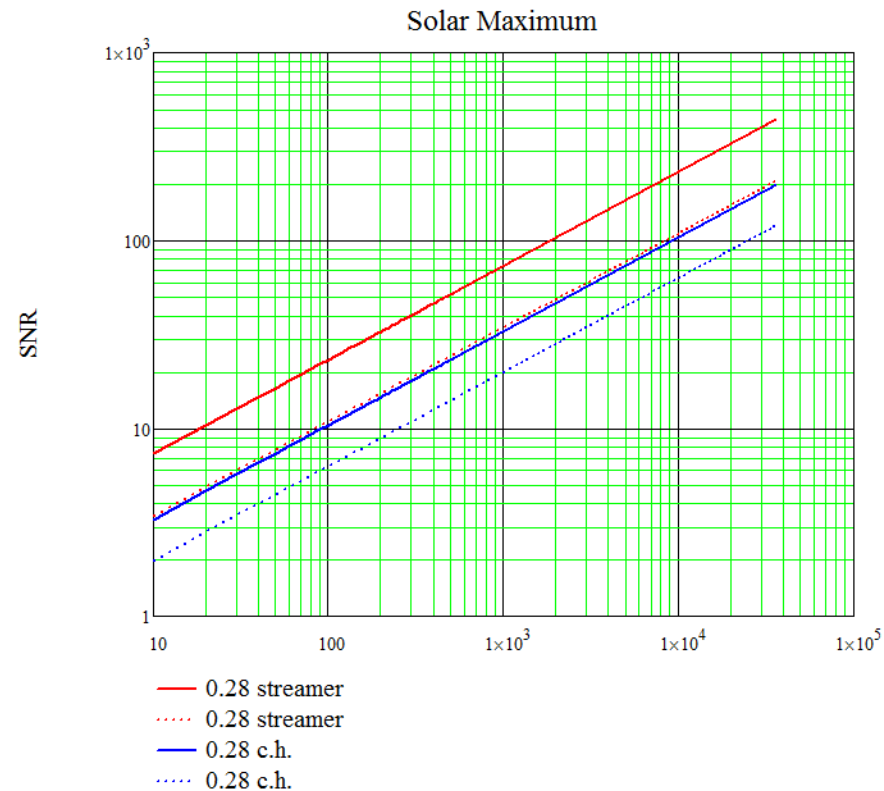
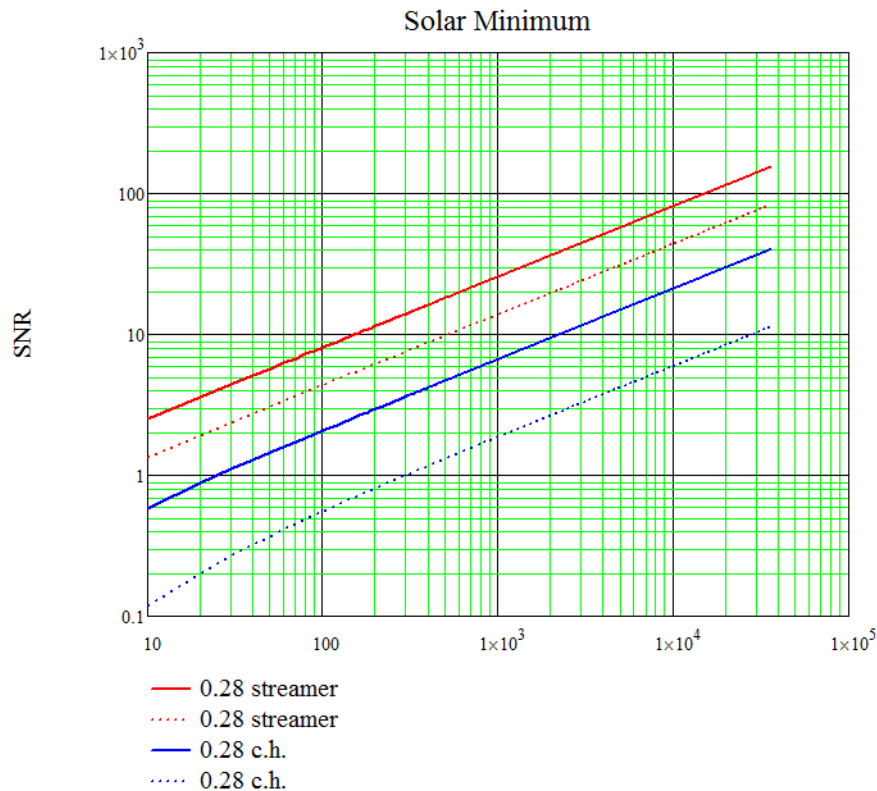
UV detector - options

- EUI Ly- α detector
 - Need investigation
 - Format, pixel size, QE are ok
 - Interfaces to be evaluated
 - Only analog mode (METIS expected count rates are low)
 - Maybe possible to add a photon counting-like mode by adding a board? Who do that? Data interface only up to 8 Mbits/s
- Star1000 camera+proxitronic
 - Not compatible with programmatics
- Star1000 camera+photek

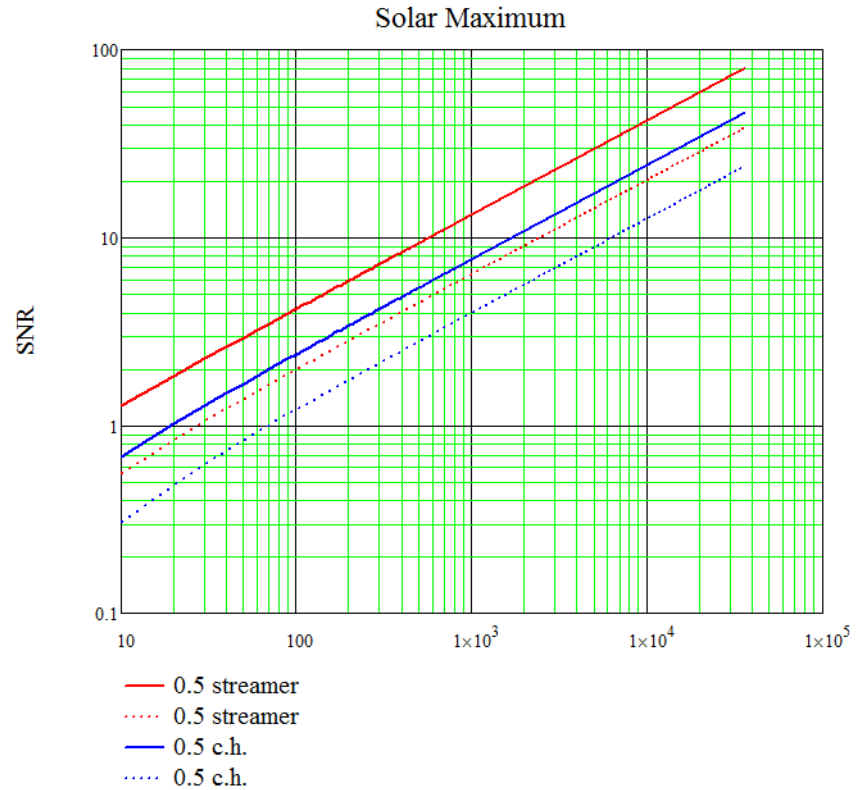
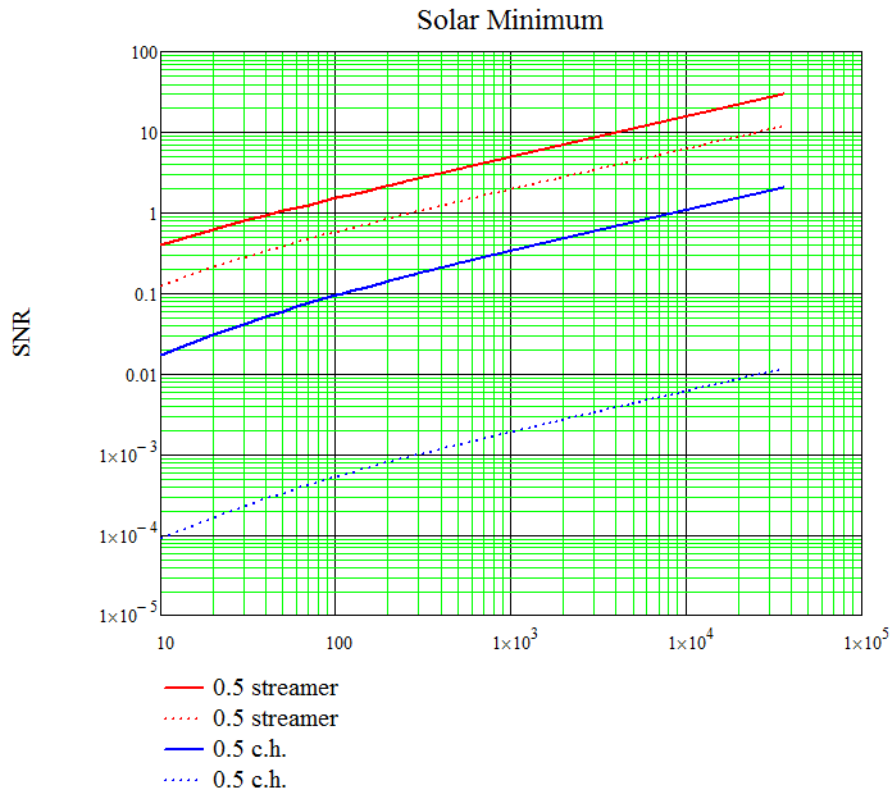
EUI Ly-alpha detector T=-40°C



EUI Ly-alpha detector T=-40°C



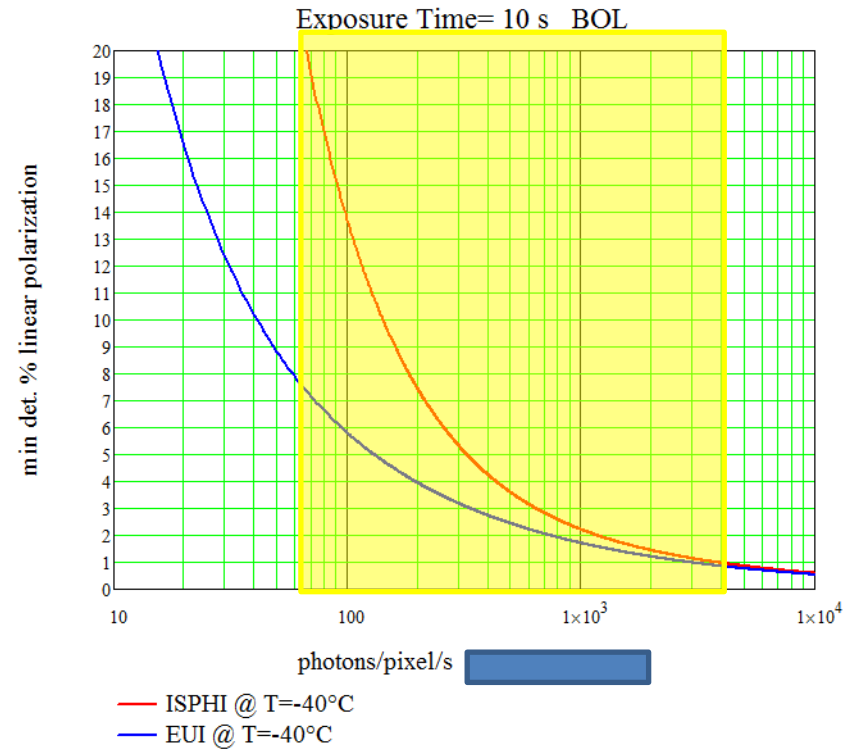
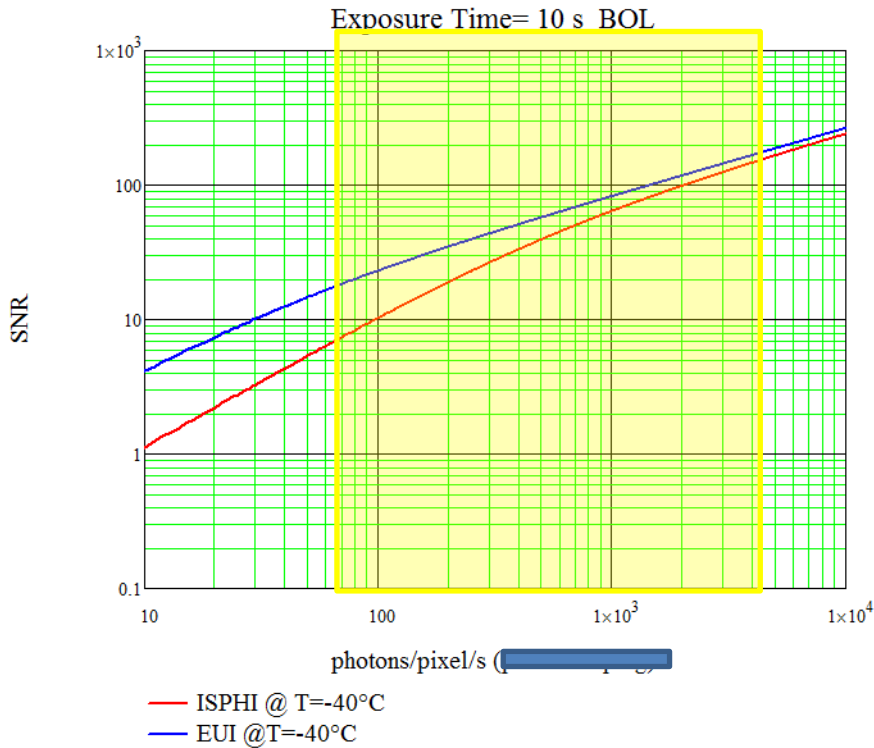
EUI Ly-alpha detector T=-40°C



Visible detector

- PHI sensor
 - MPS, options already investigated
 - Camera electronics ready, all the information may be available
- EUI sensor
 - Better performance
 - Sensor and electronics not yet available
 - Need investigation

Visible detector (PHI vs EUI)



Visible detector (PHI vs EUI)

