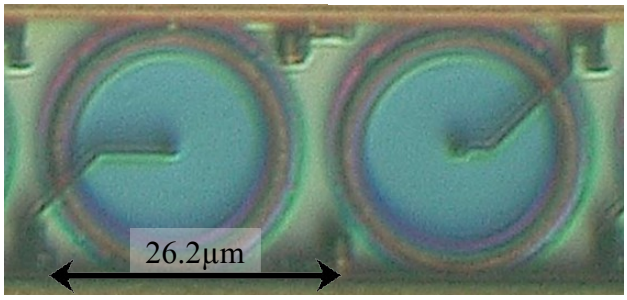
LinoSPAD2 Factsheet

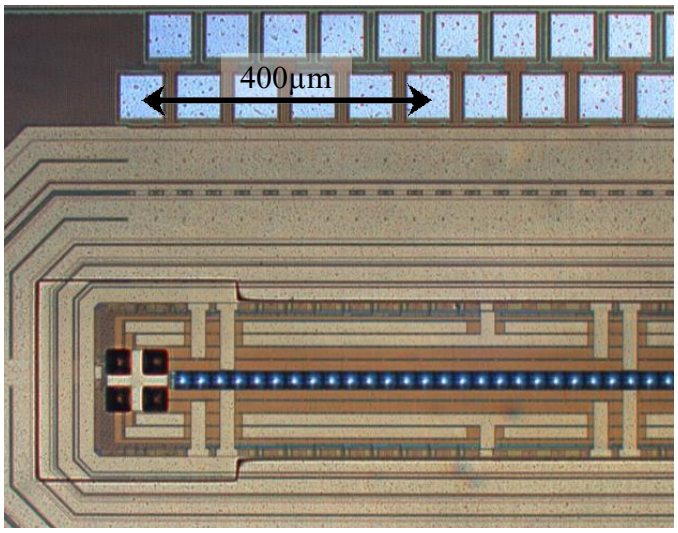
Chip size:	14.3 x 1 mm²
Technology:	180 nm
Resolution:	512 x 1
Pixel pitch:	26.2 µm
Sensitive area diameter:	14.8 µm
Fill factor:	25.4 %
Dead time:	100 ns
DCR @ room temp.	<100 Hz median typ.
Target wavelength:	400-850 nm
Light incidence:	Close to normal



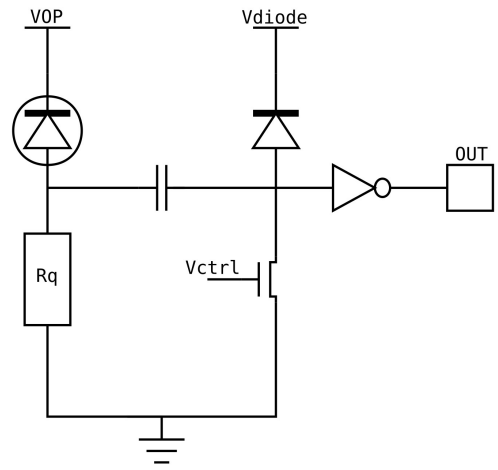
Pixel micrograph

LinoSPAD2 is a simple sensor with a line of SPADs implemented in a 180nm standard CMOS process.

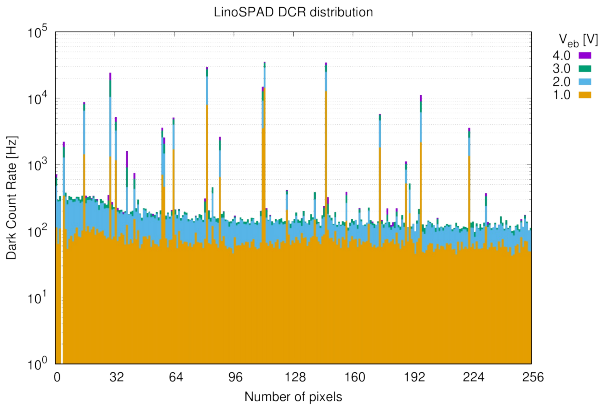
The chip size is 14.3 x 1 mm² and there are 512 SPADs with a pitch of 26.2µm. The chip is symmetric with round SPADs connected directly to outputs as seen in the pixel schematic.



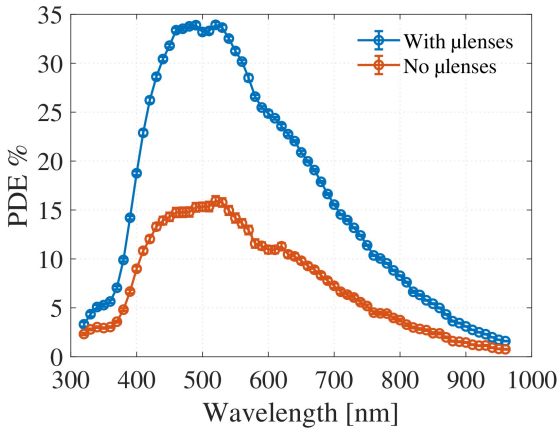
Chip edge micrograph



Pixel schematic



Typical DCR map (1/2 sensor)



PDP plot

https://aqua.epfl.ch