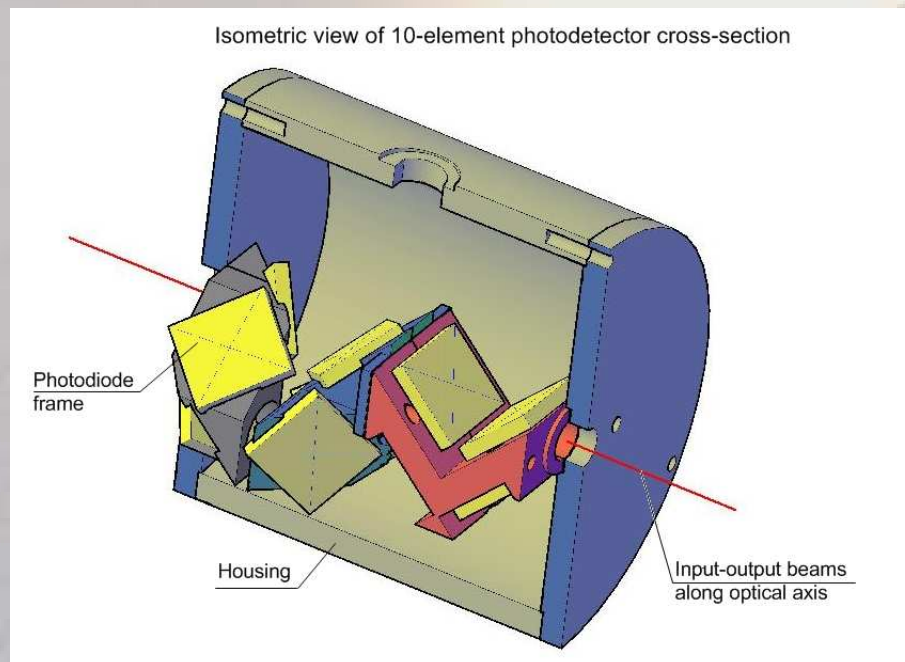


10-element photodetector

Construction



Almost ideal responsivity

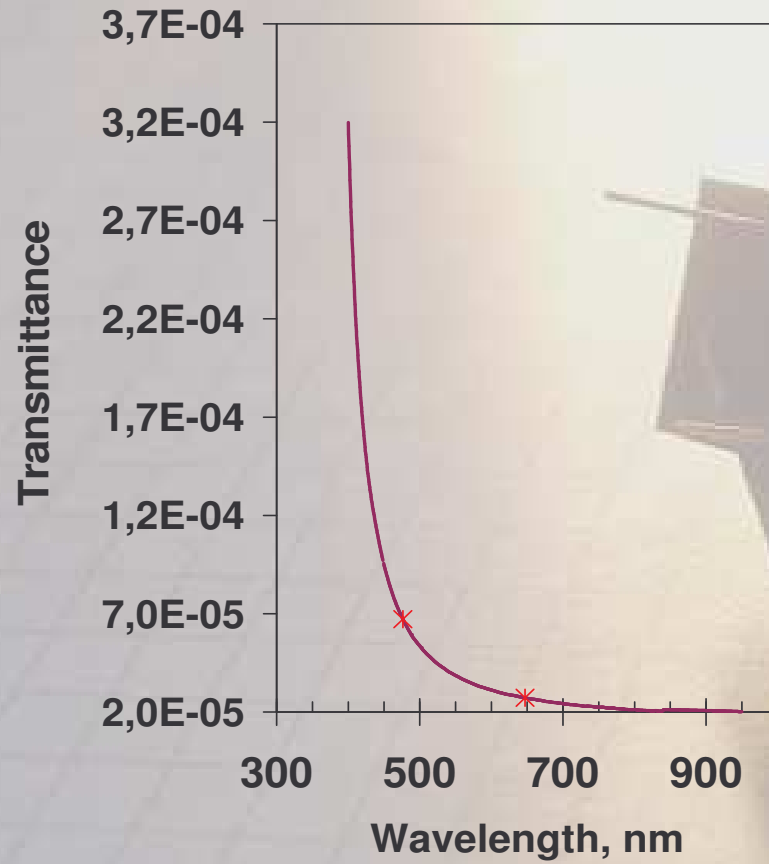
- Measured with laser lines:

Wavelength, nm	Responsivity [mA/mW]
467,2	0,3833
647,1	0,5211

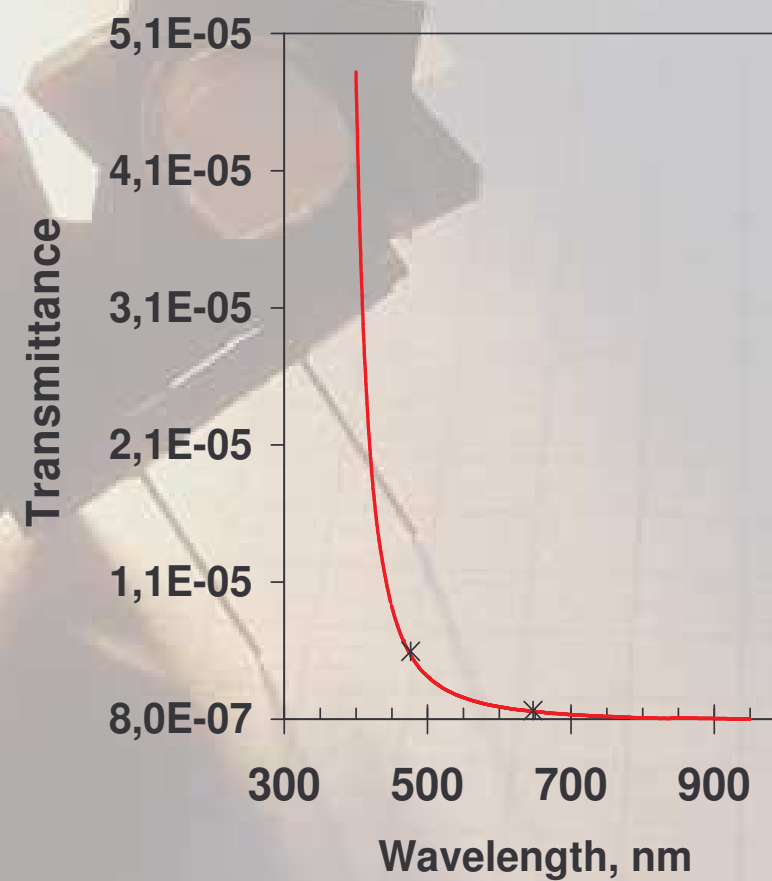
10-element photodetector

Predictable transmittance

- Model fitted to measurement results:



s-polarization



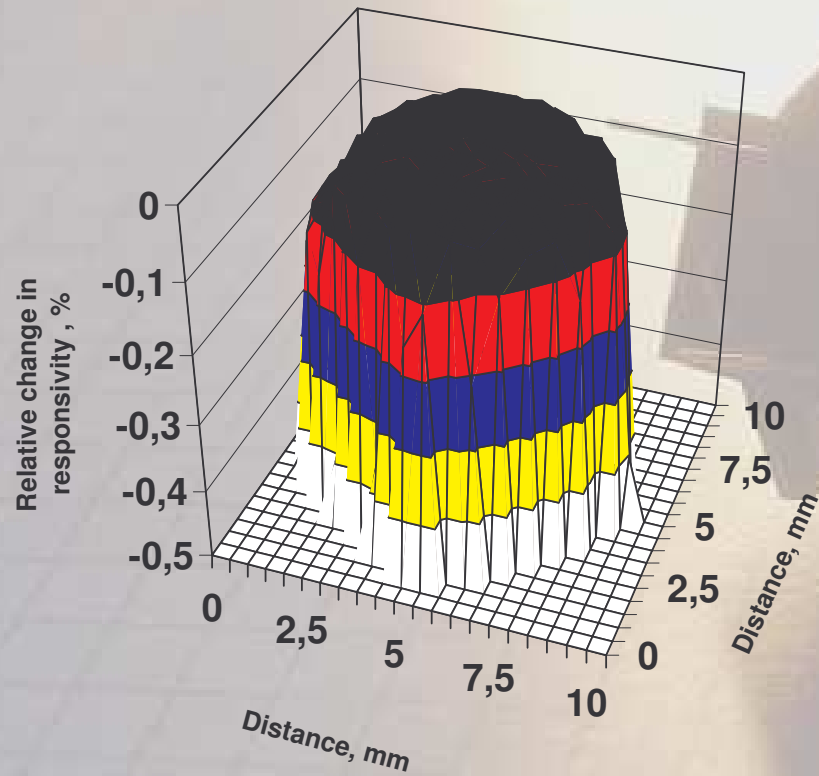
p-polarization

10-element photodetector

Spatial properties @647,1 nm

Uniform responsivity

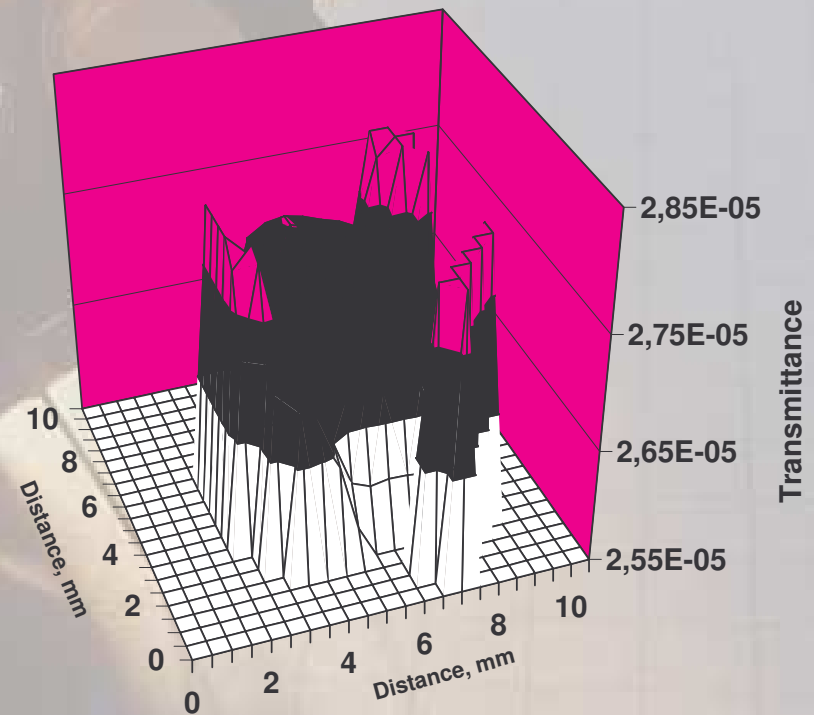
Spatial variations are $\pm 0,05\%$ across active area $7 \times 7 \text{ mm}^2$



Spatial variations in responsivity
measured for *p*-polarized light beam

Large transmittance area

Spatial variations are within $\pm 5 \times 10^{-7}$ for *s*-polarized and $\pm 5 \times 10^{-8}$ for *p*-polarized beams across clear area $5 \times 5 \text{ mm}^2$

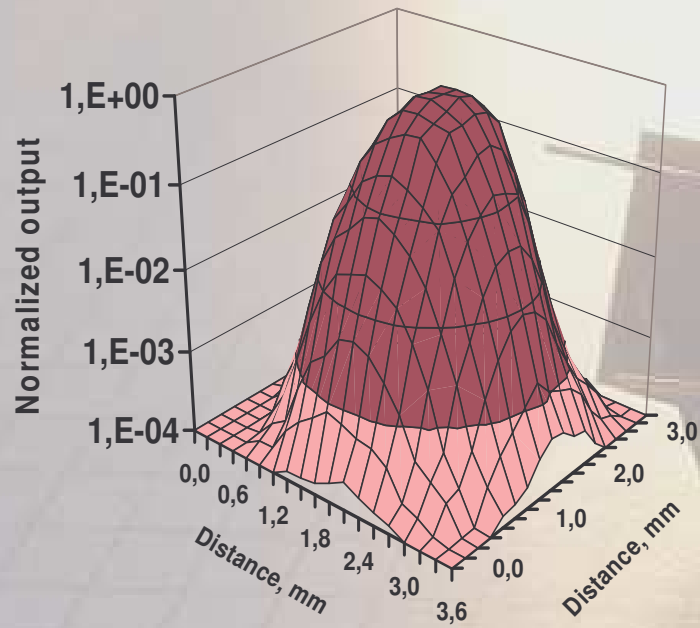


Spatial variations in transmittance
measured for *s*-polarized light beam

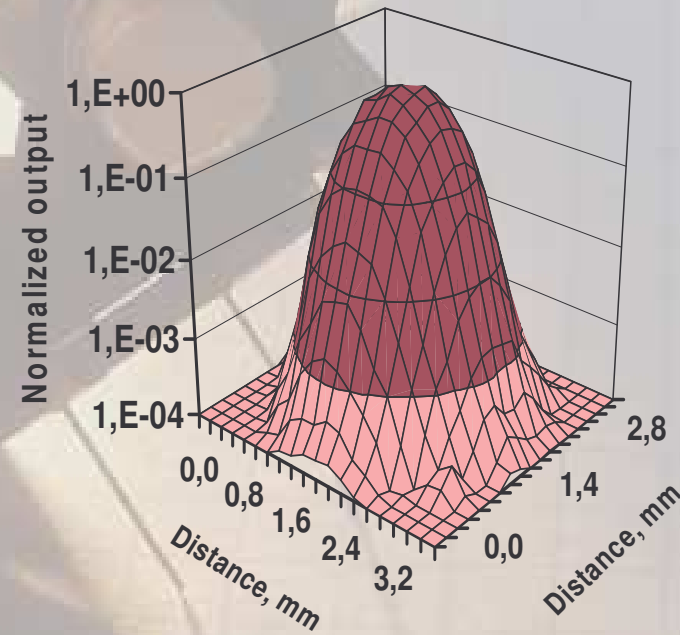
10-element photodetector

Transmitted beam properties @647,1 nm

Excellent throughput beam quality for demanding applications



s-polarized



p-polarized

input 3-mm beam diameter scan results at the output of the trap normalized to maximum signal

10-element photodetector



Contacts
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**We are happy that you are with us
getting knowledge about performance
of the first ever ten-photodiode
transmission trap detector –**

we want you to be happy, too

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Background image: former of the trap holding three photodiodes and being illuminated by day-light from the back