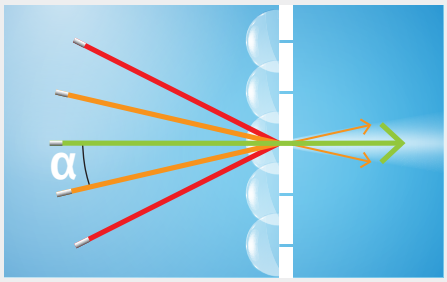
FACT SHEET

Spatial Light Filter

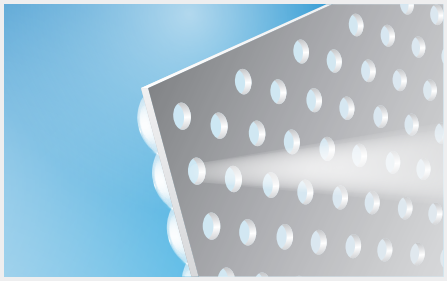
SOLID ANGLE FILTERS

Innovative micro-optics to filter large angular ranges

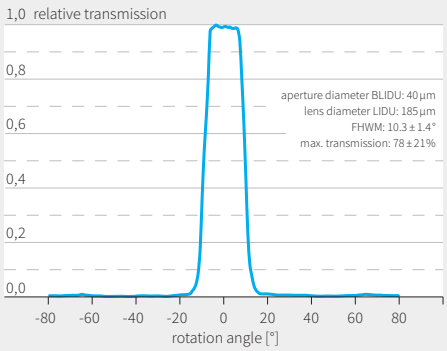
This innovative fourier optic allows light to pass in given angles. It can be used in sensor applications as well as in measuring technology, LIDAR, 3D facial recognition or display application (privacy mode).



Working principle of the solid angle filter: on-axis beams are transmitted, off-axis beams are absorbed/reflected



Schematic configuration with microlenses on the back side and pinholes on the frontside of the PET foil



Transmission Diagram

Available as

- flexible PET sheets or plates
- with self-adhesive material (OCA)
- dimensions seamless up to 100 x 100 mm²
- customized angles on request
- other optics (eg. 4F) on request

Advantages

- New and innovative solution for light filtering
- Replaces the usual macroscopic lenses with a thin film
- No adjustment between lens and aperture required
- Easy assembling by sticking the film in front of the sensor
- More freedom in the design because our film is just 500 µm thin
- Cost efficient

Technical specifications

Product	Acceptance Angle	Emission Angle
SLF-AA 5	-5° to +5°	variable
SLF-AA 10	-10° to +10°	variable
SLF-AA 15	-15° to +15°	variable
SLF-AA 20	-20° to +20°	variable
SLF-AA 25	-25° to +25°	variable

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