



Turbulence Phase Screens

General

Phase Screens are transmitting optical elements whose surfaces present an encoded bi-dimensional aberration. The encoded phase map is a spatial distribution typical of atmospheric turbulence. A plane wavefront passing through emerges distorted according to the encoded aberrations.

Specifications*

Substrate

| | |
|--------------------|---|
| <i>Diameter :</i> | up to 100 mm |
| <i>Thickness :</i> | from 0.5 mm to 9.5 mm |
| <i>Material :</i> | fused silica (high transmittance from 0.5 to 2.5 microns, very low refractive index change versus wavelength) |

Encoded Phase Map

| | |
|--------------------------------|---|
| <i>Data :</i> | Phase Map data provided by customer. |
| <i>Pixel size :</i> | from 15 x 15 microns ² to more than 100 x 100 microns ² |
| <i>Encoded Phase Profile :</i> | etched multilevel profile (up to 512 levels) |
| <i>OPD PTV :</i> | up to 10 microns |

* Please contact us for other specifications

Reflective Phase Screen

Phase Screens are also available with aluminium or gold coating for reflective applications.

Fields

Astronomy
Laser applications

Category

Phase component



