

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>	100 x 100 microns ² (typical)
<i>Encoded Phase Profile :</i>	etched multilevel profile (up to 256 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

