

Design different for U

Atmospheric turbulence simulation experimental system Based on SLM









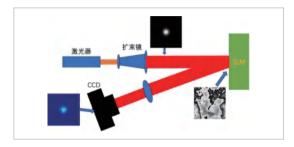
Overview

Atmospheric turbulence is an important form of atmospheric motion and an important factor affecting space optical communication and astronomical telescope imaging.

UPOLabs Atmospheric Turbulence Simulation Experimental System supports you for a better understanding on:

- 1. Simulation principle of atmospheric turbulence based on spatial light modulator (SLM).
- 2.Theoretical model of atmospheric turbulence and phase screen algorithm based on power spectrum method.
- 3.A transmission process of the Gaussian beam through atmospheric turbulence.

To achieve laser spot correction while a light beam passing through a turbulence system, we offer customizable adaptive optical distortion correction module for this product.



Atmospheric turbulence simulation experimental system Based on SLM schematic photo



Atmospheric turbulence simulation experimental system Based on SLM physical object

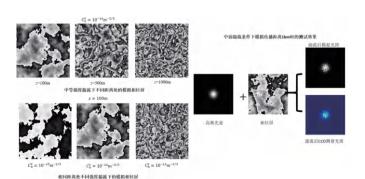
Typical Configuration

Magicholo-AT-80R	
Laser	Wavelength: 1550 nm
Optical Attenuation Slice	Based on Requirements
Beam Expander	2-5x
Spatial Light Modulator	HDSLM80R
Lens	f=100 mm
Polarizer	Based on Requirements
Camera	Based on Requirements
Adjustable Bracket	Based on Requirements

Regarding detailed introduction for the system configuration, please consult sales@realic.cn.

Magicholo-AT-45R	
Laser	Wavelength: 520 nm
Optical Attenuation Slice	Based on Requirements
Beam Expander	2-5x
Spatial Light Modulator	HDSLM45R
Lens	f=100 mm
Polarizer	Based on Requirements
Camera	Based on Requirements
Adjustable Bracket	Based on Requirements

DEMO



Application

It is suitable for astronomical high-resolution imaging systems, adaptive optics systems .