

Design different for U

Digital Holography Experimental System



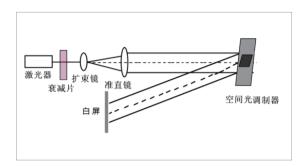




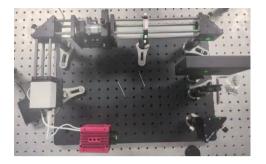


Overview

In holography experiments, on the basis of the interference theory, the phase and amplitude information of light waves are recorded and stored in the form of holograms. During optical real-time reconstruction, simulated holograms or digital holograms are loaded into spatial light modulators(SLMs) and illuminated with the original reference beam. A white screen or CCD can be used behind the SLM to receive re-constructed patterns.



Schematic Diagram of Optical Reproduction Optical Path



Digital Holography Experimental System Product Photo

Typical Configuration

**	
Magicholo-CGH-1024V	
Laser	Wavelength: 520 nm
Optical Attenuation Slice	Based on Requirements
45° Reflector Holder	Bottom mounting hole: M4 / M6 Threaded Hole Clamping Size: ФDФ25.4 mm
Spatial Filter	Adjusting Shaft: 3D Horizontal Regulation Pinhole: 10 µm Objective Lens: 10X
Reflector	Diameter : φ25.4 mm Focal Length: 100 mm
Spatial Light Modulator	RSLM1024V
Polarizer Bracket	Dimension: Ø25.4 mm Aperture: Ø22 mm
Polarizer	Diameter: Ф25.4 mm Aperture: 22.0 mm PER: 500 : 1
Camera	Based on Requirements
Adjustable Bracket & White Screen	Based on Requirements
Based on SLM RSLM1024V	, transmissive imaging results

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

Magicholo-CGH-64R	
Laser	Wavelength: 520 nm
Optical Attenuation Slice	Based on Requirements
45° Reflector Holder	Bottom mounting hole: M4 / M6 Threaded Hole Clamping Size: ФDФ25.4 mm
Spatial Filter	Adjusting Shaft: 3D Horizontal Regulation Pinhole: 10 µm Objective Lens: 10X
Reflector	Diameter : φ25.4 mm Focal Length: 100 mm
Spatial Light Modulator	HDSLM64R
Polarizer Bracket	Dimension: Ø25.4 mm Aperture: Ø22 mm
Polarizer	Diameter: Φ25.4 mm Aperture: 22.0 mm PER: 500 : 1
Camera	Based on Requirements
Adjustable Bracket & White Screen	Based on Requirements

Based on SLM RSLM1024V, transmission imaging results, reflective imaging results

DEMO



Application

It is suitable for combined used with key components in modern optical fields such as optical information processing, adaptive optics and optical computing. To a large extent, the performance of spatial light modulators determines the experimental practical value and development prospects in these fields.