

SPATIAL LIGHT MODULATORS

OFFERING MORE CONTROL OF LIGHT THAN EVER



APPLICATIONS

Control of amplitude, phase, and polarization of light is made easy with Santec LCOS-SLM, bringing advantages to various fields.



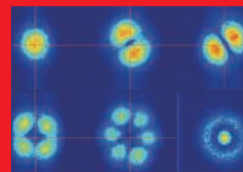
3D Holography



Optogenetics



Laser Processing



Optical Vortex



AR Display Devices

Beam Shaping / Steering

Wavefront Correction

Optical Tweezers

Projection

Diffractive Optics

3D Printing

Laser Marking

Biosensing

Quantum Computing

CASE STUDIES

Our LCOS-SLM is used at universities and research institutes around the world.

Micro/Nano Processing

Tianjin University



Associate Professor
Zongwei Xu

"We use the SLM-200 for laser beam adjustment, wavefront correction, and micro-nanometer processing. The API of SLM-200 helped us to dynamically control the laser beam in micro-nanometer processing experiment."



Wavefront Correction 2D Phase Hologram

Massachusetts Institute
of Technology



Mr. Christopher
Panuski

"We use the SLM-200 to generate dynamic, large-scale optical focus arrays for applications in integrated photonics and quantum information science. The included wavefront correction data and detailed API helped us to quickly implement these techniques in the lab."

Electromagnetic Interactions

Rensselaer Polytechnic
Institute



Dr. Moussa
N'Gom

"The Santec SLM-200 provides our lab with the ability to precisely control wavefronts in our optical designs, manipulating the phase of our input beams to let us interrogate novel materials with very specific electromagnetic interactions. The high dynamic range and numerous wavelength options. The Santec SLMs afford us a variety of avenues to explore when optimizing our experimental designs."

Holographic Display

Northwestern
University



Dr. Hamid
Hasani Balyani

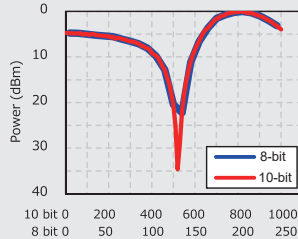
"The Santec SLM-200 is incorporated into a interferometry setup to help us develop a holographic display. Using the SLM together with further computational processing, we are able to project a set of 2D object fields onto the SLM and make a 3D object out of it. The Santec SLM converts phase patterns into 10-bit grayscale images helping us to acquire high dynamic range images for our display purposes."

FEATURES

LCOS module featuring high phase resolution and low flicker.

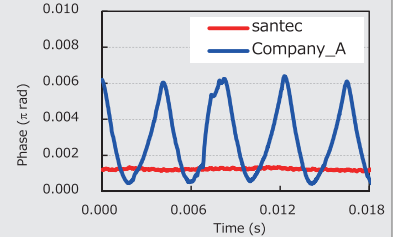
High phase resolution 10-bit (1024 gray levels)

High phase resolution enables more precise phase modulation.



The world's highest level of phase stability Less than 0.002π

The controller that drives the LCOS module is carefully designed to minimize fluctuations.



SLM SERIES

We offer products in the wavelength range of 365-1600 nm. You can choose the product that corresponds to the light source used.



	⁻⁰¹ 450 - 550	⁻⁰² 750 - 850	⁻⁰³ 1000 - 1100	⁻⁰⁴ 1500 - 1600
SLM-200 SLM-20 SLM-210	⁻¹² 400-700			
	⁻¹⁴ 450 - 550			⁻¹⁴ 1500 - 1600
	⁻²¹ 450 - 1600			
SLM-250	⁻⁰¹ 365 - 550			
SLM-300, 30	⁻⁰¹ 485 - 580	⁻⁰² 750 - 850	⁻⁰³ 1020 - 1110	
SLM-310-G	482 - 582			

Standard	Standard embedded module	High Speed	UV Hardened	High Power	High Power embedded module	Preliminary Laser Processing 500W durable model
SLM-200	SLM-20	SLM-210	SLM-250	SLM-300	SLM-30	SLM-310-G

www.santec.com/en/

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