

JD9554 Educational Kit (EDK)

Spatial Light Modulator (SLM) Experiments

The JD9554 offers Full HD resolutions of an array of 1920 x 1080 pixels. The JD9554 is an educational kit for the JD5552 microdisplay series, targets diverse SLM experiments, ranging from phase/amplitude modulator, slit diffraction, spectrometer, Holography, wavefront modulation, applications. The kit also includes the associated FPGA board and experimental GUI and software.

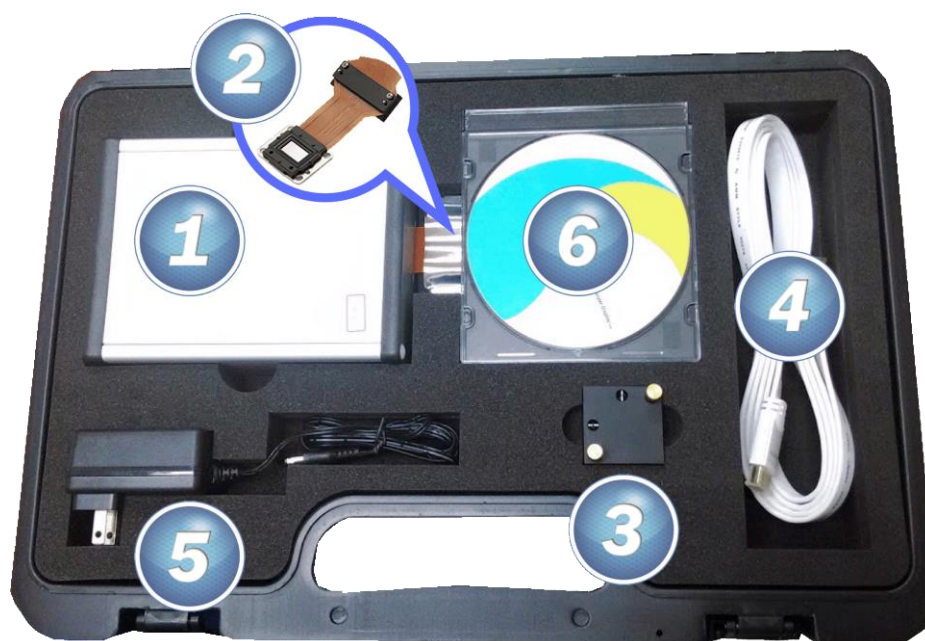
Main Features

- Phase or Amplitude (Monochrome) Types
- Input: 60Hz
- Retardation : $\geq 1.5/2\pi$ @532nm/633nm
- Response Time < 50ms
- HDMI 1.4



Specifications	A	A+
Display Type	Reflective LCoS	
Resolution	1920×1080	
Active Area Diagonal	0.55"	
Active Area	12.5mm×7.1mm	
Pixel Pitch	6.4μm	
Fill Factor (Aperture Ratio)	$\geq 93\%$	
Numbers of Input Level	≥ 6 -bit (64 grey scale levels)	8-bit (256 grey scale levels)
Input frame rate	60Hz	
Retardation	$\geq 1.5\pi$ @ 532 nm	$\geq 2\pi$ @ 633 nm
Response Time	<50ms	<40ms
Input Signal I/F	HDMI 1.4	
Power Supply	AC INPUT : 100-240V 50-60Hz DC OUT : +12V/2A	

In-Box Materials



No.	Item
1	Driver system (aluminum case)
2	JD5552 Microdisplay Module (connected with system box)
3	Panel Holder
4	HDMI Cable
5	DC 12V/2A Power Adaptor
6	Software & Content CD (incl. Warranty Card)

Experiment List	
1	Measurement of Pixelated Structure
2	Amplitude Modulator
3	Phase Modulator
4	Wavefront Modulation
5	Diffraction and Interference
6	Michelson Interferometer
7	Spectrometer
8	Signal Processing
9	Talbot Image
10	Phase Shifting Digital Holography