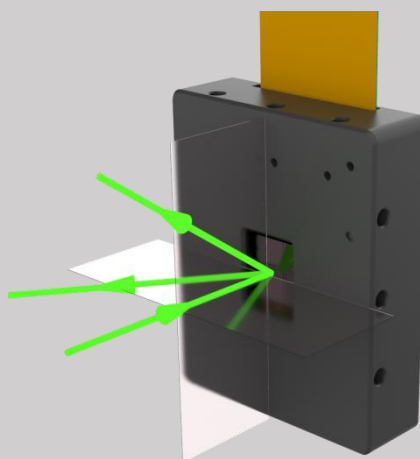


SSP-DMD-54-50 Spatial Light Modulator Technical Specification

The SSP-DMD-54-50 spatial light modulator is based on the DLP500YX, dual DLPC900 chips, with a settable 1-16bit grayscale level, and its high resolution and fast graphics rate make it ideally suited to support a wide range of industrial, medical, and advanced imaging application. This product is cost effective.

Recommended Light Path

The incident light is incident perpendicularly, and the relationship between the two states of the outgoing light and the incident light is as shown in the diagram (with an angle of 35°). If you want to change the direction of the outgoing light, you can correspondingly change the angle between the incident light and the DMD screen.

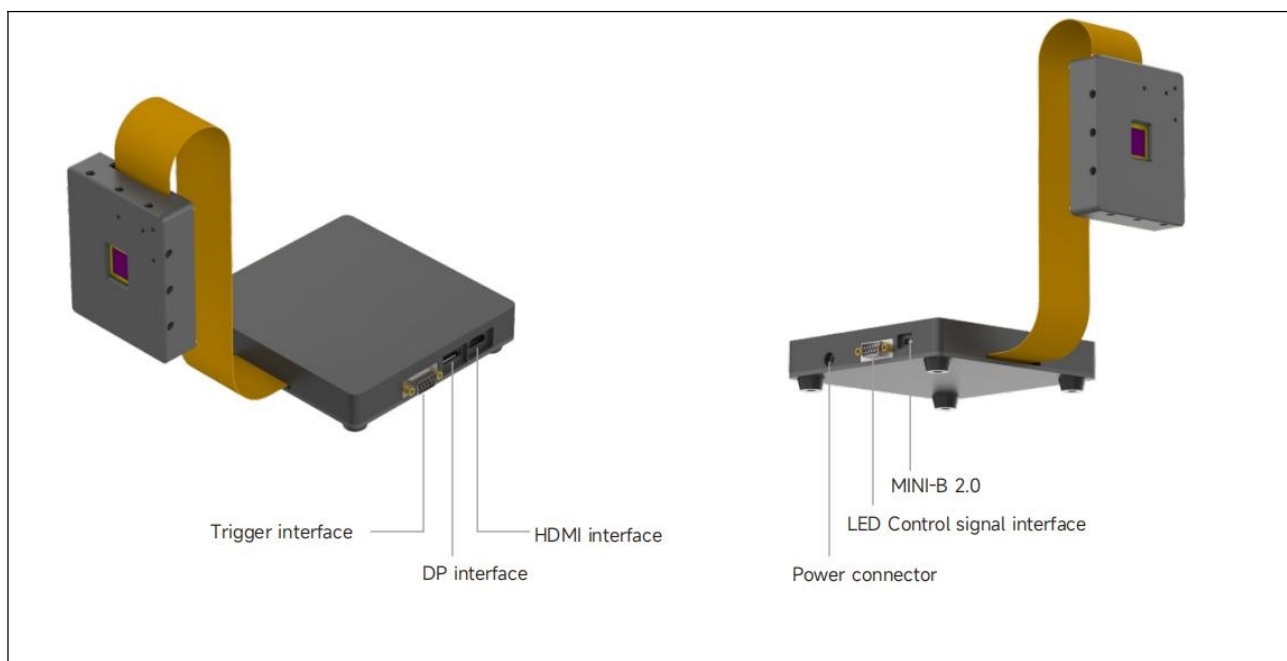


Product Parameters

Target size	0.5-inch diagonal micromirror array
Resolution	2048×1200
Pixel size	5.4μm
Micromirror tilt angle	±17.5°
Wavelength	420nm~700nm
Transmittance for window	97% (single pass through two windows)
Reflectivity	88%
Diffraction efficiency	84%
Fill factor	93%
Damage threshold	31W/cm ²
Refresh rate	11111Hz(1bit)/442Hz(8bit)/1.5Hz(16bit)
Power input	DC12V+-5% 1.5A

Data interface	Mini-B 2.0
Video signal	HDMI, DP
Trigger interface	DB 9Pin connectors 15EDGRKM-3.81
Trigger interface sequence	PIN1 3V / PIN2 output trigger1 SM2 / PIN3 output trigger 2 SM1 / PIN4 input trigger 1 SM3 / PIN5 input trigger 2 SM4 / PIN6 GND / PIN7 NULL / PIN8 NULL / PIN9 NULL
Trigger signal interface	DB9PIN LED Control signal
Timing interface line sequence	PIN1 GND / PIN2 R-EN / PIN3 R-PWM / PIN4 G-EN / PIN5 G-PWM / PIN6 B-EN PIN7 B-PWM / PIN8 NULL / PIN9 NULL

Interface Diagram



Installation Dimension Drawing

