

UV Wavelength DMD Spatial Light Modulator

HDSLM136D70UV Series



363-420nm
Wavelength



1024*768
Resolution



13.6μm
Micromirro pitch

The HDSLM136D70UV series is a UV-band DMD spatial light modulator utilizing DLP7000UV and DLPC410 chips. It boasts a resolution of 1024*768, 13.68μm pixels, and a 0.7-inch micro-mirror size. Operating within the wavelength range of 363-420nm, it offers a configurable grayscale level of 1-16bit with a maximum frame rate exceeding 27KHz. The series is categorized into ultra-fast version, smart ultra-fast version, and ultra-large-capacityversions. The smart ultra-fast version incorporates an intelligent algorithm, while the ultra-large-capacity version features on-board SSD storage starting from 2TB, with multiple capacity options available. It possesses rapid graphics processing speed and can achieve high-performance spatial light modulation beyond the visible spectrum, extending deep into the UVA spectrum (363nm to 420nm). This makes it ideal for industrial, medical, and advanced display.

Version and type

Version	Type	Wavelength
Ultra-fast version	HDSLM136D70UV-DDR	363-420nm
Smart ultra-fast version	HDSLM136D70UV-Smart	
Ultra-large-capacity version	HDSLM136D70UV-SSD	

Specifications

Type	HDSLM136D70UV-DDR	HDSLM136D70UV-Smart	HDSLM136D70UV-SSD
Resolution	1024*768		
Array Diagonal Size	0.7"		
Micromirro pitch	13.68μm		
Fill Factor	92%		
Reflectivity	88%		
Diffraction	85%		
Frame Rate	27917Hz(1bit) / 657Hz(8bit) / 3Hz(16bit)		
Interface /PC Connection	USB3.0		Gigabit Ethernet
Onboard RAM	16GByte		/
Onboard Storage	/		2T/4T/8T
Datum Angle	Horizontal design		Horizontal design / Oblique 45° design
Mounting Angle	Support horizontal installation or 45° installation		/
Intelligent Algorithm	/	Dynamic ground glass, random speckle rotating grating, periodic grating, etc	/

