UPOLabs

UV Wavelength DMD Spatial Light Modulator

HDSM108D95UV Series

363-420nm Wavelength	1920*1080 Resolution	10.8μm Micromirro pitch

The HDSLM108D95UV series is a UV-band DMD spatial light modulator utilizing DLP9500UV and DLPC410 chips. It boasts a resolution of 1920*1080, with 10.8μm pixels, an applicable wavelength range of 363-420nm, a micro-mirror size of 0.95 inches, and a configurable grayscale level of 1-16bit. The maximum frame rate stands at 20746Hz, with a memory capacity of 16Gbyte and on-board capacities of 3T/6T/12T. The video interface is USB3.0, making it suitable for industrial, medical, and advanced display applications. This spatial light modulator achieves high performance beyond the visible spectrum, extending deep into the UVA spectrum.

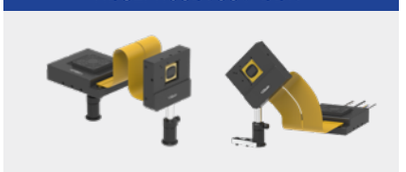
Version and type

Version	Type	Wavelength
Ultra-fast version	HDSLM108D95UV-DDR	363-420nm
Smart ultra-fast version	HDSLM108D95UV-Smart	
Ultra-large-capacity version	HDSLM108D95UV-SSD	

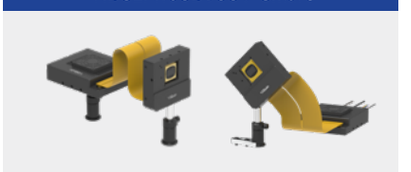
Specifications

Type	HDSLM108D95UV-DDR	HDSLM108D95UV-Smart	HDSLM108D95UV-SSD (Discontinued)
Resolution	1920*1080		
Array Diagonal Size	0.95"		
Micromirro pitch	10.8μm		
Fill Factor	94%		
Reflectivity	89%		
Diffraction	87%		
Frame Rate	20746Hz(1bit) / 617Hz(8bit) / 3Hz(16bit)		
Interface /PC Connection	USB3.0		Gigabit Ethernet
Onboard RAM	16GByte		/
Onboard Storage	/		3T / 6T / 12T
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	/

HDSLM108D95UV-DDR



HDSLM108D95UV-Smart



HDSLM108D95UV-SSD