

# UV Wavelength DMD Spatial Light Modulator

## HDSLM756D90UV Series

 **355-420nm**  
Wavelength

 **2560\*1600**  
Resolution

 **7.56μm**  
Micromirror Pitch

This model features an operating wavelength range of 355–420 nm, a resolution of 2560×1600, and a pixel size of 7.56 μm. It is available in two variants: an ultra-high-speed version and an ultra-large-capacity version. The ultra-high-speed version is equipped with 16 GBytes of memory and delivers an ultra-high frame rate of >11 kHz. The ultra-large-capacity version features onboard SSD storage, starting from 2.5 TB, with multiple capacities available.

### Version and type

| Version                      | Type              | Wavelength |
|------------------------------|-------------------|------------|
| Ultra-fast version           | HDSLM756D90UV-DDR | 355-420nm  |
| Ultra-large-capacity version | HDSLM756D90UV-SSD |            |

### Specifications

| Type                           | HDSLM756D90UV-DDR                                                                                         | HDSLM756D90UV-SSD     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------|
| Resolution                     | 2560*1600                                                                                                 |                       |
| Array Diagonal Size            | 0.9”                                                                                                      |                       |
| Micromirro pitch               | 7.56μm                                                                                                    |                       |
| Fill Factor                    | 92%                                                                                                       |                       |
| Reflectivity                   | 88%                                                                                                       |                       |
| Diffraction                    | 85%                                                                                                       |                       |
| Frame Rate                     | 11764Hz / 522Hz / 3Hz                                                                                     |                       |
| Damage Threshold               | 2.5W/cm <sup>2</sup> (355nm~365nm) / 5W/cm <sup>2</sup> (365nm~400nm) / 15W/cm <sup>2</sup> (400nm~420nm) |                       |
| Interface /PC Connection       | USB3.0+HDMI (Smart optional)                                                                              | Gigabit Ethernet port |
| Onboard RAM                    | 16GByte                                                                                                   | /                     |
| Onboard Storage                | /                                                                                                         | 2.5T / 5T / 10T       |
| Datum Angle                    | Horizontal design                                                                                         |                       |
| Mounting Angle                 | 0° / 45°                                                                                                  |                       |
| Sync Trigger Interface         | Input:SMA*1; Output:SMA*2+6pin                                                                            |                       |
| Sync Trigger High Level Signal | Input: H:2.0-5.0V L:0-0.8V;      Output: H:5V L:0V                                                        |                       |

