

# VIS Wavelength DMD Spatial Light Modulator

## HDSLM756D65 Series



420-700nm  
Wavelength



1920\*1080  
Resolution



7.56μm  
Micromirror Pitch

HDSLM756D65 Smart is a VIS-band DMD-type spatial light modulator, utilizing DLP6500FYE and DLPC910 chips. It boasts a resolution of 1920\*1080, a 0.65-inch micro-mirror size, and can be set to 1-16bit grayscale levels. With a maximum frame rate of 10940Hz and an operating wavelength range of 420~700nm, it delivers full high-definition (HD) resolution under high-speed conditions. It can be easily integrated into various terminal device solutions and is suitable for industrial, medical, and advanced imaging applications.

### Version and type

| Version                      | Type              | Wavelength |
|------------------------------|-------------------|------------|
| Ultra-fast version           | HDSLM756D65-DDR   | 420-700nm  |
| Smart ultra-fast version     | HDSLM756D65-Smart |            |
| Ultra-large-capacity version | HDSLM756D65-SSD   |            |

### Specifications

| Type                     | HDSLM756D65-DDR                                          | HDSLM756D65-Smart                                                            | HDSLM756D65-SSD |
|--------------------------|----------------------------------------------------------|------------------------------------------------------------------------------|-----------------|
| Resolution               | 1920*1080                                                |                                                                              |                 |
| Array Diagonal Size      | 0.65"                                                    |                                                                              |                 |
| Micromirro pitch         | 7.56μm                                                   |                                                                              |                 |
| Fill Factor              | 92%                                                      |                                                                              |                 |
| Reflectivity             | 88%                                                      |                                                                              |                 |
| Diffraction              | 86%                                                      |                                                                              |                 |
| Frame Rate               | 10940Hz(1bit) / 508Hz(8bit) / 3Hz(16bit)                 |                                                                              |                 |
| Interface /PC Connection | USB3.0+HDMI (Smart optional)                             |                                                                              |                 |
| Onboard RAM              | 16GByte                                                  |                                                                              |                 |
| Onboard Storage          | /                                                        |                                                                              | 2T/4T/8T        |
| Datum Angle              | Horizontal design / Vertical design / Oblique 45° design |                                                                              |                 |
| Mounting Angle           | Support horizontal installation or 45° installation      |                                                                              |                 |
| Intelligent Algorithm    | /                                                        | Dynamic ground glass, random speckle rotating grating, periodic grating, etc | /               |

