

HDSLMDMD Spatial Light Modulator Catalog

	363~420nm			400~700nm						800~2000nm
Type	HDSLMD136D70UV	HDSLMD108D95UV	HDSLMD756D90UV	HDSLMD136D70	HDSLMD108D95	HDSLMD756D65A	HDSLMD756D90	HDSLMD756D65	HDSLMD54D67	HDSLMD108D65NIR
Chipset	DLP7000UV DLPC410	DLP9500UV DLPC410	DLP9000XUV DLPC910	DLP7000 DLPC410	DLP9500 DLPC410	DLP6500FLQ DLPC910	DLP9000X DLPC910	DLP6500FYE DLPC910	DLP670S DLPC900	DLP650LNIR DLPC410
Wavelength	363-420nm	363-420nm	355-420nm	400-700nm	400-700nm	400-700nm	400-700nm	420-700nm	420-700nm	800-2000nm
Resolution	1024*768	1920*1080	2560*1600	1024*768	1920*1080	1920*1080	2560*1600	1920*1080	2716*1600	1280*800
Micromirro Pitch	13.68 μm	10.8 μm	7.56 μm	13.68 μm	10.8 μm	7.56 μm	7.56 μm	7.56 μm	5.4 μm	10.8 μm
Array Diagonal Size	0.7"	0.95"	0.9"	0.7"	0.95"	0.65"	0.9"	0.65"	0.67"	0.65"
Micromirro Tilt Angle	±12 °	±12 °	±12 °	±12 °	±12 °	±12 °	±12 °	±12 °	±17.5 °	±12 °
Fill Factor	92%	94%	92%	92%	94%	92%	92%	92%	93%	94%(@1064nm)
Reflectivity	88%	88%	88%	88%	89%	88%	88%	88%	88%	94%(@1064nm)
Diffraction	85%	85%	85%	86%	87%	86%	86%	86%	84%(@f/2.4)	88%(@1064nm)
Bit Depth	1-16bit	1-16bit	1-16bit	1-16bit	1-16bit	1-16bit	1-16bit	1-16bit	1-8bit	1-16bit
Frame Rate	27917Hz(1bit) 657Hz(8bit) 3Hz(16bit)	20746Hz(1bit) 617Hz(8bit) 3Hz(16bit)	11764Hz(1bit) 522Hz(8bit) 3Hz(16bit)	27917Hz(1bit) 657Hz(8bit) 3Hz(16bit)	20746Hz(1bit) 617Hz(8bit) 3Hz(16bit)	10940Hz(1bit) 508Hz(8bit) 3Hz(16bit)	11764Hz(1bit) 522Hz(8bit) 3Hz(16bit)	10940Hz(1bit) 508Hz(8bit) 3Hz(16bit)	Pattern On-The-Fly Mode 10000Hz(1bit) 247Hz(8bit)	11764Hz(1bit) 522Hz(8bit) 3Hz(16bit)
Damage Threshold	2.5W/cm ² (363nm~400nm) 11W/cm ² (400nm~420nm)	5.2W/cm ² (363nm~400nm) 11W/cm ² (400nm~420nm)	2.5W/cm ² (355nm~365nm) 5W/cm ² (365nm~400nm) 15W/cm ² (400nm~420nm)	11W/cm ² (400nm~420nm) Thermally limited (420nm~700nm)	11W/cm ² (400nm~420nm) Thermally limited (420nm~700nm)	2.5W/cm ² (400nm~420nm) Thermally limited (420nm~700nm)	10W/cm ² (400nm~420nm) Thermally limited (420nm~700nm)	0.68mW/cm ² (<420nm) Thermally limited (420nm~700nm) 10W/cm ² (>700nm)	31W/cm ²	40W/cm ² (800nm~950nm) 500W/cm ² (950nm~1150nm) 40W/cm ² (1150nm~2000nm)
Interface /PC Connection	USB3.0	USB3.0	USB3.0+HDMI	USB3.0	USB3.0	USB3.0 HDMI (Smart option)	USB3.0 HDMI (Smart option)	USB3.0 HDMI (Smart option)	USB1.1+HDMI	USB3.0
Number Of Images	174762 (1bit) 21845 (8bit) 10922 (16bit)	62137 (1bit) 7767 (8bit) 3883 (16bit)	33554 (1bit) 4194 (8bit) 2097 (16bit)	174762 (1bit) 21845 (8bit) 10922 (16bit)	62137 (1bit) 7767 (8bit) 3883 (16bit)	62137 (1bit) 7767 (8bit) 3883 (16bit)	33554 (1bit) 4194 (8bit) 2097 (16bit)	62137 (1bit) 7767 (8bit) 3883 (16bit)	400 (1bit) 50 (8bit)	134217 (1bit) 16777 (8bit) 8388 (16bit)
DMD Datum Angle	Horizontal design	Horizontal design	Horizontal design	Horizontal design	Horizontal design	Horizontal design	Horizontal design	Horizontal design Vertical design Oblique 45° design	Horizontal design	Horizontal design
Sync Trigger Interface	Input:SMA*1 Output:SMA*1+6pin	Input:SMA*1 Output:SMA*1+6pin	Input:SMA*1 Output:SMA*2+6pin	Input:SMA*1 Output:SMA*1+6pin	Input:SMA*1 Output:SMA*1+6pin	Input:SMA*1 Output:SMA*2+6pin	Input:SMA*1 Output:SMA*2+6pin	Input:SMA*1 Output:SMA*2+6pin	Input:6pin Output:6pin	Input:SMA*1 Output:SMA*1+6pin
Sync Trigger High Level Signal	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:3.3V L:0V	Input H:2.0-5.0V L:0-0.8V Output H:5V L:0V
Onboard RAM	16GByte (-DDR type)	16GByte (-DDR type)	16GByte (-DDR type)	16GByte (-DDR type)	16GByte (-DDR type)	16GByte (-DDR type)	16GByte (-DDR type)	16GByte (-DDR type)	1Gbit*2 (-DDR type)	16GByte (-DDR type)
Onboard Storage	2T/4T/8T (-SSD type)	3T/6T/12T (-SSD type)	2.5T/5T/10T (-SSD type)	2T/4T/8T (-SSD type)	3T/6T/12T (-SSD type)	2T/4T/8T (-SSD type)	2.5T/5T/10T (-SSD type)	2T/4T/8T (-SSD type)	1Gbit*2 (-SSD type)	1T/2T/4T (-SSD type)

Note 1. The fill factor, reflectivity and diffraction of HDSLMD108D65NIR: theory calculation value.

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