

Double Spatial Light Modulator SLM-S 640d.

(Preliminary data sheet)

The Double Spatial Light Modulator SLM-S 640d with 2 x 640 strips is designed for the modulation of femto second laser pulses. Based on the proved system SLM-S 640/12, which has been developed in co-operation with Max Planck Institute of Quantum Physics in Munich and the Friedrich Schiller University in Jena, the double shutter consists of two modulators being separately controlled.

Thus, the new SLM-S 640d is able to simultaneously modulate amplitude and phase of ultra fast laser pulses. Any of the 640 strips of each mask can be controlled in activity by a 12 bit resolution.

The LCD double mask with driver boards is fixed on a mounting plate.

Optics		Specification	
Active area	app. 63.7mm x 7mm	Interface	RS232 Optional IEEE 1394 (FireWire)
Number of strips	2 x 640	Trigger in and trigger out	(Optocoupler)
Strip size	3.8 mil (96.52 µm) x 7mm	Functions	Instruction set integrated in firmware (based on instruction set of SLM-S 640/12)
Gap	0.12 mil 1 (3.05 µm)	Software Control	1. via RS 232 under use of Command Interface 2. dll Interface (ANSI C) for WIN 98, NT, 2000, XP (instruction set for LabView™ is included)
Liquid Crystal Type	nematic		
LC Orientation	Shutter 1: +45° to strips Shutter 2: -45° to strips or according to customer's request		
Wavelength range	430 to 1500 nm		
Electronics			
Driving Voltage	0 ... 8 V / 12 bit resolution		
Frame Buffers	80		

As our policy is constantly to improve the design and specification, the details here shown are not be regarded as binding.

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