

CRI 飞秒脉冲整形器

CRI SLM (透射式飞秒脉冲整形器) 是剑桥大学研究与仪器(CRI)与麻省理工学院(MIT)合作开发的液晶空间光调制器(LC_SLM)。麻省理工学院在一个单一设备上同步实现相位和幅度调制技术拥有**全球独家专利授权**。

这款透射式液晶 SLM 产品具固体封装、对振动不敏感、可进行相位调制, 振幅调制、相位振幅混合调制、覆盖可见光和近红外波段、体积小、软件操作简便等优点。CRI 飞秒脉冲整形器在世界上处于技术领先的地位, 已申请多项专利。

我们可以提供单 Mask、双 Mask 等多种型号的 **CRI** 飞秒脉冲整形器, 用户可根据应用需要进行选择。

CRI 液晶飞秒脉冲整形器的主要应用包括: **4f** 飞秒激光束整形, 双光子显微镜, 脉冲压缩, 飞秒化学, 相干激光控制, 阿秒科学, **THz** 光谱, 超快脉冲整形高谐波产品和手术应用等领域。

参数如下:

	P128/A128	D128	P640/A640	D640
Optics				
Number of Masks	1	2	1	2
Pixels per Mask	128		640	
Pixel Height	5000 μm (5 mm)			
Pixel Pitch	100 \pm 0.005 μm			
Inter-Pixel Gap ¹	2.0 μm			
Inter-Mask Alignment ^{2,3}	-	\pm 2.0 μm	-	\pm 2.0 μm
Inter-Mask Separation ^{2,4}	-	1.03 mm	-	1.03 mm
Spectral Range ⁵	488 – 900 nm (VN models), 900 – 1620 nm (NM models)			
Transmission VN Model ¹³	> 88%	> 85%	> 88%	> 85%
Transmission NM Model ¹³	> 92%	> 90%	> 92%	> 90%
Pulse Damage Threshold	100 $\mu\text{J}/\text{cm}^2$ (490 nm, 50 fs, 1kHz), 200 $\mu\text{J}/\text{cm}^2$ (890 nm, 50 fs, 1kHz)			
Maximum Modulation ^{6,7}	3 π radians at longest wavelength			
Modulation Temp. Coefficient ⁸	-0.3% modulation per $^{\circ}\text{C}$			
Response Time ⁹⁻¹²	35 ms (2 π radians at 900 nm – VN model), 70 ms (2 π radians at 1620 nm – NM model)			
Electronics				
Drive Waveform	Bipolar 3.3 kHz square wave			
Drive Resolution	12 bit, 2.44 mV per step			
Frame Buffers	128		32	
Interfaces	USB 1.1, 5V / 3.3V logic trigger (TTL compatible)			
Power	+24V DC, via universal adapter (included)			
Housing				
Mechanical Mounting	3 x 1/4" – 20 and 2 x M6 threaded holes			
Overall Size	5.29" x 6.90" x 0.98"		7.2" x 12.8" x 1.54"	
Environmental				
Operating Temperature	18 $^{\circ}\text{C}$ to 35 $^{\circ}\text{C}$			
Storage Temperature	-15 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$			

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