

Adaptive Pulse Compression, Characterization, and Shaping

	femtoJock-P	femtoJock	femtoJock-D ^{NEW}	MIIPS-HD	MIIPSBox640-P	MIIPSBox640
SLM type	single 1D array, liquid crystal	double 1D array, liquid crystal	2D array, LCOS	2D array, LCOS	single 1D array, liquid crystal	double 1D array, liquid crystal
Type of shaping	Phase-only	Phase and Amp/Polarization ⁽¹⁾	Phase and Amp (diffractive)	Phase and Amp (diffractive)	Phase-only	Phase and Amp/Polarization ⁽¹⁾
Pixel pitch	100 μm	100 μm	20 μm	20 μm	100 μm	100 μm
Number of pixels	128	128 x 2	792 x 600	792 x 600	640	640 x 2
Number of control channels ⁽²⁾	128	128	~200	~400	640	640
Min. pulse duration	< 10 fs	< 10 fs	< 8 fs	< 25 fs	< 5 fs	< 5 fs
Max. time delay ⁽³⁾	25 x τ _{TL}	25 x τ _{TL}	50 x τ _{TL}	100 x τ _{TL}	125 x τ _{TL}	125 x τ _{TL}
Operating wavelength range ⁽⁴⁾	430-1700 nm	430-1700 nm	400-1550 nm ⁽⁵⁾	400-1550 nm ⁽⁵⁾	430-1700 nm	430-1700 nm
Max. input bandwidth (typ.)	250 nm ⁽⁶⁾	250 nm ⁽⁶⁾	400 nm ⁽⁶⁾	200 nm ⁽⁶⁾	one octave	one octave
Max. input average power (typ.) ⁽⁶⁾	600 mW	600 mW	0.5 W / 1 W ⁽⁷⁾	1 W / 2 W ⁽⁷⁾	2 W	2 W
Max. input pulse energy (typ.) ⁽⁶⁾	50 μJ	50 μJ	0.5 mJ / 1 mJ ⁽⁷⁾	1 mJ / 2 mJ ⁽⁷⁾	250 μJ	250 μJ
L x W x H (inch)	15.75x9x6	15.75x9x6	18.75x9x6	17.75x8.4x8.25	18.75x12x10.25	18.75x12x10.25
L x W x H (mm)	400x229x152	400x229x152	476x229x152	451x213x210	476x305x260	476x305x260

- ⁽¹⁾ Polarization control is limited. Please discuss your application requirements with our application scientist;
⁽²⁾ Assuming a collimated input beam with the recommended diameter;
⁽³⁾ Based on the highest spectral resolution;
⁽⁴⁾ Several SLM types are available across the specified spectral range; please refer to the product data sheet;
⁽⁵⁾ The operating wavelength range can be extended down to 355nm; please consult us for details;
⁽⁶⁾ Depends on the center wavelength of the laser source;
⁽⁷⁾ Depends on the back-mirror type and the center wavelength; customized to fit the laser source.