

## Technical Specifications Functional Properties

### LDU

Electrical Configurations		
Sensor Type	CMOS	-
Shutter Type	Global	-
Resolution (W x H)	1900x1200	pixel <sup>2</sup>
Pixel Size (W x H)	6x6	um <sup>2</sup>
Image Circle	1/1.2	inch <sup>-1</sup>
Spectral Range	300 - 1100	nm
Color Filter <sup>6</sup>	None	-
Quantum Efficiency <sup>7</sup>	70.0	%
Full-Well Capacity	30	ke <sup>-</sup>
Dynamic Range	70	dB
ADC Resolution	12	bit
Dark Noise	7	e <sup>-</sup>
Dark Current <sup>8</sup>	60	e <sup>-</sup> /s
SNR	50	dB
Exposure Time <sup>9</sup>	1 - 1000	us
Inter-Framing Time <sup>10</sup>	1 - 1000	us
Readout Rate	200 - 5000	fps
Capturing Enhancement	Binning, Skipping & ROI	-
Camera Memory	Shared	-
Mechanical Configurations		
Supported Lenses	Motorized F-mount	-
Dimensions (L x W x H)	200x120x120	mm <sup>3</sup>
Weight <sup>5</sup>	2.6	kg

Parameters	Property / Value	Unit
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### LSU

Electrical Configurations		
Operating Mode	Continuous & Pulse	-
Pulse Width	50 - 500000	ns
Pulse Resolutions	50	ns
Pulse Power <sup>11</sup>	10000	W
Repetition Pulse Rate	0.001 - 10000	Hz
Optic & Mechanical Configurations		
Light Color	Green	-
Wavelength	525 - 535	nm
Luminous Flux <sup>11</sup>	15000	lm
Radiometric Flux <sup>11</sup>	30	W
Power Flux <sup>11</sup>	120	W/cm <sup>2</sup>
Light Property	Homogenous, Non-Coherent	-
Light Spatial Resolution	1000	LP/mm
Supported Lenses	Motorized F-mount	-
Dimensions (L x W x H)	250x120x120	mm <sup>3</sup>
Weight <sup>5</sup>	3.1	kg

<sup>1</sup>To any camera with TTL opto-isolated signals  
<sup>2</sup>Same for all the family members in 0.5ms  
<sup>3</sup>Same for all the family members in 100-1000Hz  
<sup>4</sup>Same for all the family members in non-operating mode

<sup>5</sup>Without cables or lenses  
<sup>6</sup>Monochrome  
<sup>7</sup>At green wavelengths  
<sup>8</sup>At 25° C

<sup>9</sup> Each exposure varies independently  
<sup>10</sup>For PIV applications  
<sup>11</sup>Maximum value

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### DynoSprayer

Mechanical Configurations		
Dimensions (L x W x H)	1x1x2	m <sup>3</sup>
Weight <sup>5</sup>	100<	kg
Motion	Mobile by wheel	-
FOD of Camera	3 in	Translation and Rotation
FOD of Light Source	3 in	Translation
FOD of Injector	3 in	Translation
Shock Resistance <sup>2</sup>	10	G
Vibration Resistance <sup>3</sup>	1	G
Environmental Temperature <sup>4</sup>	-20 - 80	Centigrade
Environmental Humidity <sup>4</sup>	10 - 90	%

## Technical Specifications Mechanical Properties

