

# How To Choose A LISST

		200X	Black	HAB	Portable XR	ABS	AOBS	Holo2	SL2	Deep	Glider	Horizon	Hyper-bb	VSF
Parameter	Particle size	X	X	X	X			X	X	X	X	X		
	Particle images							X						
	Concentration	X	X	X	X	X	X	X	X	X	X	(X)		
	Volume Scattering Function	(X)	(X)	(X)						(X)	(X)	X	(X)	X
	Beam attenuation	X	X	X	(X)				X	X	X	X		X
	Backscattering											X	X	X
	Depth	X	X	X				X	X	X			X	X
	Temperature	X	X	X				X	X	X			X	X
	Velocity								X					
	Fluorescence		X	X										
Turbidity						X								
Power, logging, operation options	Externally powered	X	X	X		X	X	(X)	X	X	X	X	X	X
	Internal battery				X			X						
	External battery pack(s) available	X	X	X				X	X	X			X	X
	External battery pack(s) included	X	X	X					X					X
	Integrates with 3 <sup>rd</sup> party dataloggers					X	X							
	Datalogger available					X	X							
	Logs internally	X	X	X	X			X		X	X	X	X	X
	Real-time option via PC/tablet	X	X	X		X			X	X				
	Autonomous operation	X	X	X		X	X	X		X	X	(X)	X	X
Profiling/Moored/Towed operation <sup>1</sup>	PMT	PMT	PMT	N/A	MT	MT	P(M)	P	P(M)	GLIDER ONLY	N/A	M	P(M)	
Featured specs	Depth rating (m)	600	600	600	NOT SUBMERSIBLE	100	100	300	30	3,000	600	NOT SUBMERSIBLE	600	50 <sup>2</sup>
	Size range (µm)	1-500	1-500	1-500	0.34-500	30-400	1-400	25-2,500	1-500	2.5-500	1-500	0.2-500	N/A	N/A
	Concentration range for 7 µm particles (µL·L <sup>-1</sup> ) <sup>3</sup>	1-105	1-105	1-105	4-525	1-30,000 mg·L <sup>-1</sup>	1-30,000 mg·L <sup>-1</sup>	<50 mg·L <sup>-1</sup>	5-875	0.5-50	1-105	0.3-40	N/A	0.15-18
	Concentration range for 200 µm particles (µL·L <sup>-1</sup> )	25-3,000	25-3,000	25-3,000	125-15,000	<20,000 mg·L <sup>-1</sup>	<20,000 mg·L <sup>-1</sup>	<50 mg·L <sup>-1</sup>	200-25,000	15-1,500	25-3,000	10-1,050	N/A	5-500
Application area	Energy	*			***	***	***							
	Environmental	***	***	***	*	***	***				**		**	
	Freshwater	***	***	***	*	***	***	**	***		**		***	***
	Industry				***	*	**							
	Marine	***	***	***	*	*	*	***		***	***	***	***	***

<sup>1</sup> For extended deployments, the BioBlock (available for the LISST-200X, LISST-Black and LISST-HAB) must be used.

<sup>2</sup> 50 m operational. Will survive to 300 m.

<sup>3</sup> Concentration range for the LISST-200X, LISST-Black, LISST-HAB, and LISST-Holo2 can be increased using optical path reduction modules (PRM's).