

Eye-Safety

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Table 1. Performance of MDS-LIDAR (Preliminary)

	Fundamental [AN]	Fundamental [PC]	Second Harmonics
Transmitter			
Wavelength [nm]	1053		527
Laser Power [mJ]	90		4.4
Pulse Repetition Rate [pps]	100		
Beam Divergence [mrad]	0.15		
Reciver			
Primary Mirror Diameter [m]	1		
Field of View [mrad]	0.19		
Filter Bandwidth [nm]	0.3	10	10
Total transmittance [%]	39	5.4	60
Detector Type	Si-APD	Si-APD	Si-APD
Detecting method	Analogue	Photon Counting	Photon Counting
Detector Quantum Efficiency [%]	36	2	39
Signal Processor			
Digitizer Resolution [bits]	12	12	12
Maximum Count Rate [Mcps]	-	5	5