

Flight Plan 1					Flight Plan 2				
Terrain and Aircraft					Terrain and Aircraft				
Reference Height	0		m		Reference Height	0		m	
Flying Height AGL	500	500	m		Flying Height AGL	500	500	m	
Altitude AMSL	500 / 1640		m/ft		Altitude AMSL	500 / 1640		m/ft	
Recommended Ground Speed (GS)	110	110	kts		Recommended Ground Speed (GS)	110	110	kts	
Scanner					Scanner				
Field of View (FOV)	39.0	39.0	degrees		Field of View (FOV)	32.0	32.0	degrees	
Maximum Scan Rate	52.6		Hz		Maximum Scan Rate	57.1		Hz	
Scan Rate Setting used (SR)	40.0	40.0	Hz		Scan Rate Setting used (SR)	45.0	45.0	Hz	
Pitch Angle	0		Deg		Pitch Angle	0		Deg	
Delta Scan	0.53 - 0.56		# scans		Delta Scan	0.60 - 0.62		# scans	
Automatic scan delta optimization	successful	enabled			Automatic scan delta optimization	successful	enabled		
Laser					Laser				
Laser Type	LaserPowerCl...				Laser Type	LaserPowerCl...			
Maximum Laser Pulse Rate	518200		Hz		Maximum Laser Pulse Rate	528600		Hz	
Laser Pulse Rate used	450000	450000	Hz		Laser Pulse Rate used	490000	490000	Hz	
Multi Pulse in Air Mode	1	1			Multi Pulse in Air Mode	1	1		
Fixed Gain	255				Fixed Gain	255			
Recommended Laser Power	13		%		Recommended Laser Power	16		%	
Range Intensity mode	8				Range Intensity mode	8			
Nominal Maximum Slant Range	556.95		m		Nominal Maximum Slant Range	546.16		m	
Minimum Range Gate	200.00		m		Minimum Range Gate	200.00		m	
Maximum Range Gate	648.22		m		Maximum Range Gate	593.83		m	
Range Gate size	448.22		m		Range Gate size	393.83		m	
Range margin above hills	300.00		m		Range margin above hills	300.00		m	
Range margin below valleys	111.04		m		Range margin below valleys	70.83		m	
Coverage					Coverage				
Full Swath Width	354.12		m		Full Swath Width	286.75		m	
Coverage Rate (No line optimization)	54.57		km^2/h		Coverage Rate (No line optimization)	41.67		km^2/h	
Recommended Line Spacing (No DTM)	267.87		m		Recommended Line Spacing (No DTM)	204.55		m	
Minimum Sidelap (No DTM, lower)	24.36		%		Minimum Sidelap (No DTM, lower)	28.66		%	
Minimum Sidelap (upper)	24.36		%		Minimum Sidelap (upper)	28.66		%	
Point Spacing and Density					Point Spacing and Density				
Maximum Point Spacing Across Track	0.19		m		Maximum Point Spacing Across Track	0.16		m	
Maximum Point Spacing Along Track	0.71		m		Maximum Point Spacing Along Track	0.63		m	
Across Track/Along Track Ratio	0.27				Across Track/Along Track Ratio	0.25			
Average Point Density	22.46	1.00	pts / m^2		Average Point Density	30.20	1.00	pts / m^2	
Average Point Spacing	0.21		m		Average Point Spacing	0.18		m	
Worst case Point Density	14.91		pts / m^2		Worst case Point Density	20.27		pts / m^2	
Reflectivity and SNR					Reflectivity and SNR				
Illuminated Footprint Diameter	0.13		m, 1/e^2		Illuminated Footprint Diameter	0.13		m, 1/e^2	
Terrain Reflectivity	0.10				Terrain Reflectivity	0.10			
Estimated SNR for diffuse targets	25.67 - 24.33				Estimated SNR for diffuse targets	28.40 - 27.60			
Line/Rail Cross Section	10.00		mm		Line/Rail Cross Section	10.00		mm	
Line/Rail Reflectivity	0.30				Line/Rail Reflectivity	0.30			
Best Case Wire SNR	9.31 - 0.00				Best Case Wire SNR	10.47 - 0.00			
Average SNR	25.00	25.00			Average SNR	28.00	28.00		
Accuracy					Accuracy				
Estimated Across Track Accuracy	0.07		m		Estimated Across Track Accuracy	0.07		m	
Estimated Along Track Accuracy	0.07		m		Estimated Along Track Accuracy	0.07		m	
Estimated Height Accuracy	0.05 - 0.07		m		Estimated Height Accuracy	0.05 - 0.06		m	
Laser Safety (IEC 2007)					Laser Safety (IEC 2007)				
Laser Safety Shutoff Distance (ENOHD)	419		m		Laser Safety Shutoff Distance (ENOHD)	463		m	
Laser Safety Shutoff Distance (NOHD)	65		m		Laser Safety Shutoff Distance (NOHD)	72		m	
Image Sensor (CH61/62 53mm)					Image Sensor (CH61/62 53mm)				
FOV	53.99		degrees		FOV	53.99		degrees	
GSD	5.66		cm		GSD	5.66		cm	
Swath	509		m		Swath	509		m	
Minimum Cycle Time	1.00		s		Minimum Cycle Time	1.00		s	
Required Cycle Time	2.69		s		Required Cycle Time	2.69		s	
Side Lap (@Rec. Line Spacing)	47.42		%		Side Lap (@Rec. Line Spacing)	59.85		%	
Side Lap (@ 0% desired Lidar overlap)	30.49		%		Side Lap (@ 0% desired Lidar overlap)	43.71		%	
Maximum Ground Speed	296		kts		Maximum Ground Speed	296		kts	
WFD Configuration					WFD Configuration				
Waveform configuration set	False				Waveform configuration set	False			