

<b>Description</b>	<b>Computed</b>	<b>Target</b>	<b>Unit</b>
Sensor ID	ALS70_SN7161		
<b>Terrain and Aircraft</b>			
Reference Height	408 - 553		m
Flying Height AGL	2255 - 2400	2400	m
Altitude AMSL	2808 / 9213		m/ft
Recommended Ground Speed (GS)	160	160	kts
<b>Scanner</b>			
Field of View (FOV)	40.0	40.0	degrees
Maximum Scan Rate	53.4		Hz
Scan Rate Setting used (SR)	35.3		Hz
<b>Laser</b>			
Maximum Laser Pulse Rate	228800		Hz
Laser Pulse Rate used	228800		Hz
Multi Pulse in Air Mode	Enabled	Enabled	
Aircraft Speed Sensitivity	0.51		kts
Gain Up	3		
Gain Down	3		
Range Intensity mode	7		
Nominal Maximum Slant Range	2580.63		m
Minimum Range Gate	1502.28		m
Maximum Range Gate	2599.58		m
Range Gate size	1097.30		m
Range margin above hills	752.72		m
Range margin below valleys	42.80		m
Recommended Laser Power	100		%
<b>Coverage</b>			
Full Swath Width	1747.06		m
Coverage Rate (No line optimization)	440.24		km <sup>2</sup> /h
Recommended Line Spacing (No DTM)	1485.70		m
Minimum Sidelap (No DTM, lower)	14.96		%
Minimum Sidelap (upper)	9.49		%
<b>Point Spacing and Density</b>			
Maximum Point Spacing Across Track	1.17		m
Maximum Point Spacing Along Track	1.16		m
Across Track/Along Track Ratio	1.00	1.00	
Average Point Density	1.59	1.00	pts / m <sup>2</sup>
Average Point Spacing	0.79		m
Nadir Point Density	1.47		pts / m <sup>2</sup>
<b>Reflectivity and SNR</b>			
Illuminated Footprint Diameter	0.54		m, 1/e <sup>2</sup>
Terrain Reflectivity	0.10		
Estimated SNR for diffuse targets	12.42 - 11.40		
Line/Rail Cross Section	10.00		mm
Line/Rail Reflectivity	0.30		

Best Case Wire SNR	0.88 - 0.00		
Average SNR	11.91	21.00	
Accuracy			
Estimated Across Track Accuracy	0.23 - 0.26		m
Estimated Along Track Accuracy	0.23 - 0.26		m
Estimated Height Accuracy	0.09 - 0.13		m
Eye safety			
Eye Safety Shutoff Distance (Binoculars)	1140		m
Eye Safety Shutoff Distance (naked eye)	177		m