



ALS Scanner	2D Airborne Laser Scanners				
	LMS-Q560	NEW LMS-Q680	NEW V-Line RIEGL VQ-480	LMS-Q240(i)	LMS-Q160
Key words	Complete System Available	long range, digital full waveform processing	Very compact and lightweight device	Airborne Laser Scanner, 2D Laser Scanner	Very compact and lightweight device
Short text description	Full Waveform Processing, multiple target capability	Extra Long Range, multiple-time-around processing, Full Waveform Processing, multiple target capability	Online Waveform Analysis, multiple target capability	Economically priced short-range 2D airborne laser scanner	Anti-collision sensor for helicopters & UAVs
Eye safety class	Laser Class 1	Laser Class 3R	Laser Class 1	Laser Class 1	Laser Class 1
Max range target reflectivity 80%				Q240: 450 m Q240i: 650 m	
Max range target reflectivity 60%	up to 1800 m	up to 3000 m	up to 1200 m		
Max range target reflectivity 20%	up to 1200 m	up to 2000 m	up to 800 m	Q240: 230 m Q240i: 320 m	
Max range target reflectivity 10%					up to 200 m
Max range for wire targets					up to 60 m
Min range for natural targets	30 m	30 m	10 m	2 m	2 m
Accuracy	20 mm	20 mm	25 mm	20 mm	20 mm
Repeatability single shot	10 mm	20 mm	25 mm	15 mm	15 mm
Effective measurement rate	up to 160000 meas./sec	up to 160000 meas./sec	up to 150000 meas./sec	10000 meas./sec	10000 meas./sec
Beam divergence	0.5 mrad	0.5 mrad	0.3 mrad	2.7 mrad	2.7 mrad
Number of targets per pulse	unlimited	unlimited	up to 9	First target, last target, or alternating	First target, last target, or alternating
Vertical line scan - max scan angle range	45° (up to 60°)	45° (up to 60°)	60°	Q240(i)-60: 60° Q240(i)-80: 80°	80°
Vertical line scan - min angle stepwidth	0.004°	0.004°	0.006°	0.04°	
Topography & Mining	●●●	●●●	●●●	●●●	●
Corridor Mapping	●●●	●●●	●●●	●●●	●
City Modelling	●●●	●●●	●●●	●	●

Mapping of Lakesides & River Banks	●●●	●●●	●●●	●	●
Agriculture & Forestry	●●●	●●●	●●●	●	●
Target Classification	●●●	●●●	●●●	-	-
Glacier & Snowfield Mapping	●●●	●●●	●●●	●●●	●●
Obstacle Detection for Unmanned Aerial Vehicles UAV	●	●	●●	●●	●●●
Power Lines	●●●	●●●	●●●	●●	●●●

Legend	
●●●	excellent for the selected application
●●	very good
●	good

Copyright