

# HERON® LITE

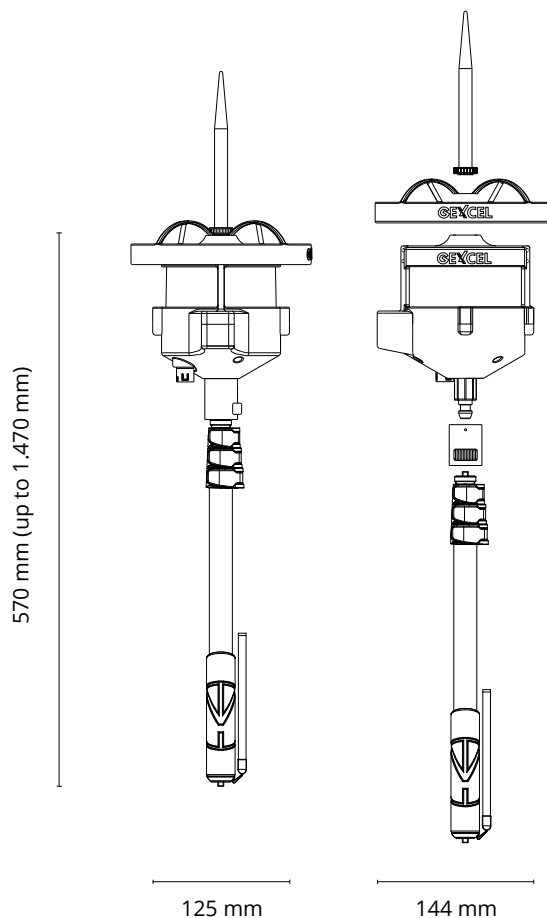
## Product Specifications

### MAIN FEATURES

Suitable environment	indoor/outdoor
Handheld	yes
Wearable	on request
Mountable on various mobile platforms (auto, trolley, bike, quad, boat)	yes
No. LiDAR sensors	1
Panoramic camera	no
IMU	yes
SLAM post-processing software (HERON® Desktop)	yes
Point cloud advanced processing software (Reconstructor®)	yes
Free tool for 2D map measuring (GoBlueprint®)	yes
Output data	.e57, .las, .ply, export in ReCap™
Points per second	300.000
Local accuracy	~ 3 cm
Max survey resolution	~ 2 cm
Global accuracy	~ 5 cm in short close rings <sup>(1)</sup>
Loop closure	not mandatory
Works in every light conditions	yes
Initialization and calibration procedures	not required
Single operator	yes
Data storage	256 GB
Working hours (in continuous acquisition)	~ 3 h
Real-time 3D point cloud visualization	yes
Operating temperature	-10° ; +45°
Storage temperature	-40° ; +60°
Storage and transport case	yes

### CAPTURE HEAD

Laser sensor brand and type	Velodyne Puck™
No. of sensors	1
Laser safety classification	class 1
Laser wave length	903 nm
Laser max range	80-100 m
FOV	360° x 360° <sup>(2)</sup>
IMU	yes
Head weight	870 g
Head dimension	125 x 144 x 160 mm



### TOUCHSCREEN CONTROL UNIT

Processor	i7
Weight	1400 g
Dimension	314 x 207 x 25 mm
Waterproof protection	IP65
Shoulder harness	282 g
Screen dimension	11,6" IPS LumiBond 2.0

### HANDHELD POLE

Weight	322 g
Dimension	from 41 cm up to 131 cm

### BATTERY

Model	Lithium lion 12V 4Ah
Weight	450 g
Dimension	176 x 78 x 22 mm

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### ACCESSORIES

Centering tip	available
Head protection ring	available
Telescopic pole with cables (retracted 90 cm - extended 200 cm)	available
Telescopic pole with cables (retracted 90 cm - extended 600 cm)	available
Car mount	available
Rugged backpack (dimension 500 x 370 x 190 mm   weight 3700 g)	available
Rugged backpack <i>Plus</i> (dimension 540 x 400 x 220 mm   weight 4400 g)	available

### SOFTWARE EQUIPMENT

<b>Reconstructor®</b>	included
<b>Reconstructor® HERON add-on</b>	included
Automatic scans registration	yes
Direct data import	colorized .fls, .zfs, .rxp, .3dd, .x3s, .x3m, .clr, .cl3, .dp, .ixf, .nctri, .txt, .las, .laz, .e57, .ptx, .pts, .asc, .ply, .csv
Point cloud filtering, managing and classifying	yes
Import .ifc BIM format	yes
Import terrestrial laser scanner data	yes
Import UAV data	yes
Import mobile mapping data	yes
Import projects from third parties LiDAR software	FARO Scene, RIEGL Ri-SCAN PRO, TOPCON, Z+F LaserControl (thermal camera included)
ReCap™ export	yes
Cross sections and profiles extraction (.dxf)	yes
Orthophotos & x-ray orthophotos (direct export to AutoCAD™)	yes
Volumes and areas calculation	yes
Mesh creation and manipulation	yes
Verification tool	yes

<b>HERON® Desktop</b>	included
Drift effect reducing (global optimization)	yes
3D local maps algorithm	yes
Use of GNSS coordinates for geolocalization	yes
Split/merge trajectories and point clouds	yes
Automatic post-processing mode	yes
Noise cleaning (attenuation)	yes
Mobile objects removing	yes

<b>GoBlueprint®</b>	FREE TOOL
Volume calculation based on 2D map	yes
2D map measures (linear, angular, area)	yes
Onsite 2D map navigation <i>(it works on every Windows-based device)</i>	yes
Deliverables easy to manage and share	yes

<b>HERON® Clouds Constraints add-on</b>	optional
<b>Reconstructor® MINING add-on</b>	optional
<b>Reconstructor® COLOR add-on</b>	optional
<b>Reconstructor® 3D Viewer</b>	FREE TOOL
<b>Orbit® 3D Mapping Cloud</b>	optional
<b>Orbit® Feature Extraction Suite</b>	optional

(1) The global accuracy depends on the effectiveness of the SLAM registration algorithm, which can be influenced by the geometry of the surveyed environment. Long trajectories in absence of loop closures and cross paths, as narrow tunnels or narrow stairs, can downgrade the global accuracy to 20-50 cm. The patented and unique algorithms present in HERON® Desktop and the use of control scans as constraints can dramatically improve the quality of the result. Gexcel support team is ready to provide more detailed information on this topic.

(2) FOV guaranteed by walking with the system (nominal sensor FOV - horiz. 360° | vert. +15°; -15°).

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