

GENERAL

• SPL-1500/SPL-620/SPL-370/SPL-180 Model

 AcuteLas Series

 pulsed precise scan technology Type

TECHNICAL

• 0.6-1500m/0.6-620m/0.6-370m/0.6-180m Scan Range

• 360° (H) x 300° (V) Scan FOV • 2,000,000 pts/sec Scan Rate

• 1.2mm @10m; 2mm @25m Relative Accuracy*

Angular Accuracy Scan Speed

• 0.001° (H/V) • 80 Hz max.

• 0.018° (20,480 pts 3D-pixel on 360° H./V.) Step Size Fieldwork Control • onboard touch screen or tablet remote via WLAN

 approx.16 sec (scan only, fastest); Fieldwork Reference 41 sec (scan + image, fastest)

ONBOARD SENSORS

Laser Scanner Sensor • Class-1 eye-safe (in accordance with IEC 60825-1:2014)

Laser Wavelength

• 1550 nm, invisible Laser Divergence Angle • 0.5 mrad

Initial Beam Diameter

HDR Camera • inbuilt 2 nos. forward side and upward 45°

Imaging Resolution Color Resolution

• 24.6 MP (12.3 MP x2) in total for one capture • 8 directions, 45° each, 196.8 MP (12.3 MP x8x2)

in total for one round Dual-axis Compensator • compensating range ±15°

Height Sensor

• to calculate the relative heights by inbuilt barometer and record in scan files

• to record the internal temperature of device

Temperature Sensor

realtime and keep it working within the right

Compass

• to record the northing direction while scanning

GNSS

• integrated GPS (L1) & Beidou (B1)

PHYSICAL

Color

• 247x107x202 mm Dimension

• 4.85 kg (without battery); 5.3 kg (with battery) Weight

• purple grey, solid uncoated

LED Screen • 5-inch HDR color touch display, 720x1280 dpi Tripod Mount · lightweight elevating camera tripod, 3-section,

• yes, downward up to 0.505 m by elevating tripod Inverse Mounting

ELECTRICAL

• detachable battery unit (inside battery **Power Supply**

compartment) or external power supply

Power Consumption • 40 W while scanning, typical **Battery Unit**

• rechargeable Li-ion battery, 28.8V, 3400mAh,

• approx. 4 to 4.5 hours per unit **Battery Endurance**

ENVIRONMENTAL

Working Temperature • -20°C to +60°C Storage Temperature • -35°C to +70°C Humidity Resistance • non-condensing **Ingress Protection** • IP64 rating

INTERFACING

• 3.0, inside battery compartment WLAN • 802.11 b/g/n on board

External Power Supply • 18-24V DC, at bottom ring of the device

DATA MANAGEMENT

Storage • USB 3.0 flash drive, 256 GB (upgradeable)

SOFTWARE

Remote control AcuteLas Remote Pre-process AcuteLas Studio

• negotiable, based on project demand SDK Option

Note*: the accuracy performance here came from the good conditions based on factory standards while the actual performance might vary due to different environments (lighting, textures), reflectivitity, weather (temperature, humidity), etc. And all specifications are subject to change without any prior notice.

CONFIGURATION

No.	Item	Description	Quantity
		standard configuration	
0	3D Laser Scanner Unit	model: SPL-500	1
2	Lens Protective Cover		1
3	USB Flash Drive	USB 3.1, 256 GB	1
4	Rechargeable Battery	28.8 V, 3400 mAh, 97.92 Wh	2
5	Battery Charger		1
6	Charger Adapter		1
7	Carrying Case		1
8	Lightweight Tripod	packed with a soft bag	1
9	Software Dongle Key	for post-processing AcuteLas Studio	1
197	A 10 P	optional accessories	4
•	scanner sphere	6 nos. as one set, packed in a separate case ready to place in front and behind both	6
1	Backpack		1
12	RTK Connector		1





SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

Add: South Geo-information Industrial Park, No.39 Si Cheng Rd, Guangzhou, China Tel: +86-20-23380888 Fax: +86-20-23380800

E-mail: mail@southsurvey.com export@southsurvey.com http://www.southinstrument.com





SPL-1500/SPL-620/SPL-370/SPL-180

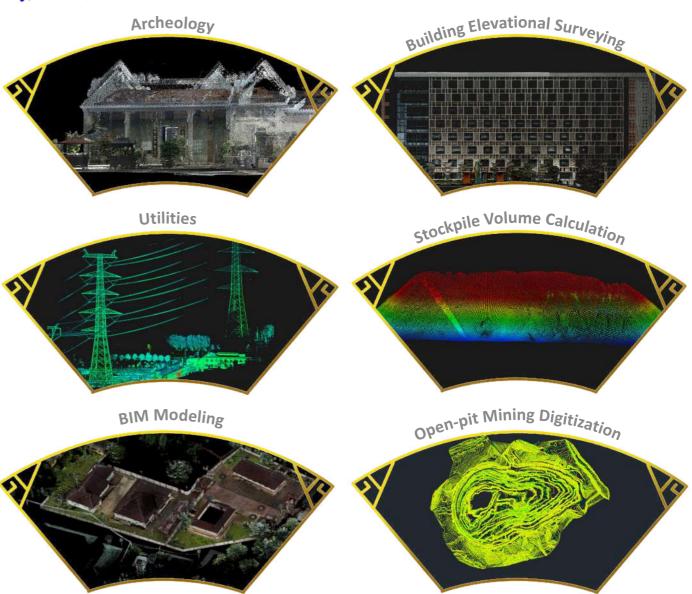
Pulse, Portable, Accurate, Efficient













SYSTEM REQUIREMENTS

Operating System Windows 10 IoT Enterprise or higher

Processor Intel® 13th Gen Core™ i7 processor or better

RAM 32 GB or better Storage SSD 1 TB or better



- © Data integration: Import&Export formats to support SOUTH and other formats (XYZ, E57, PCD, LAS, PLY, etc.)
- $\ensuremath{\,^{\odot}}$ Automatic and manual registration, refinement, and reporting
- © Geo-referencing: convert to local coordinate system by importing survey control files
- Automatic and manual classification
- Oata interaction (2D, 3D and setup view)
- © 3D calculation (distance, area, and volume)