

| Device type | SPL-1500 | SPL-500 | SPL-500E |
|-----------------------|---|--|--|
| Type | pulsed precise scan technology | | |
| Color | Grey | Grey | White |
| Scanning Range | 1.5 ~ 1500 m (100% reflectivity on white) | 1.5 ~ 620m (100% reflectivity on white) | 1.5~370m (100% reflectivity on white) |
| Scanning Accuracy | 3 mm @ 100 m | 5 mm @ 100 m | 5 mm @ 100 m |
| Scan Rate | 2,000,000 pts/sec | 1,200,000 pts/sec | 500,000 pts/sec |
| Angular Accuracy | 0.001° (H./V.) | | |
| Scanning FOV | 360° (H.) & 300° (V.) | | |
| Laser Class | Class1 eye-safe (in accordance with IEC 60825-1:2014) | | |
| Laser Wavelength | 1550 nm, invisible | | |
| Laser Beam Divergence | 0.3 mrad (1/e) | | |
| Interface | USB 3.0, external power supply, Ethernet | | |
| Data Storage | USB 3.0 flash drive 128 GB (as default) | | |
| Imaging Resolution | inbuilt (24.6 MP in total, 2 x 12.3 MP) | | |
| Scanning Control | on-board 5-inch HDR (720x1280) color touch display or web interface remote control on tablet/smartphone | | |
| Dual-axis Compensator | compensating range±15°; compensating accuracy 0.008° | compensating range±10° | compensating range±10° |
| Sensor | integrated, height relative (to a fixed point) to detect on board | altimeter | N/A |
| | integrated, orientation to detect | IMU Inertial navigation System compass | on board N/A |
| | integrated tracking GPS(L1)& Beidou(B1) dual-constellation | GNSS | N/A |
| Power Supply | rechargeable battery (as default); external supply by 19V DC | | |
| Power Consumption | 25 W (while scanning) | | |
| Battery Endurance | max. 4 h per unit (one unit needed for operation only) | | |
| Operating Temperature | -20°C ~ +60°C | | |
| Storage Temperature | -35°C ~ +70°C | | |
| Humidity Resistance | non-condensing | | |
| Ingress Protection | IP64 (in accordance with IEC 60529) | IP54 (in accordance with IEC 60529) | IP54 (in accordance with IEC 60529) |
| Net Weight | 6 kg (without battery); 6.45 kg (with battery) | | |
| Dimension | 247x107x202mm | | |

AcuteLas Series

SPL-1500/SPL-500/SPL-500E

Highly cost-effective high precision 3D laser scanner

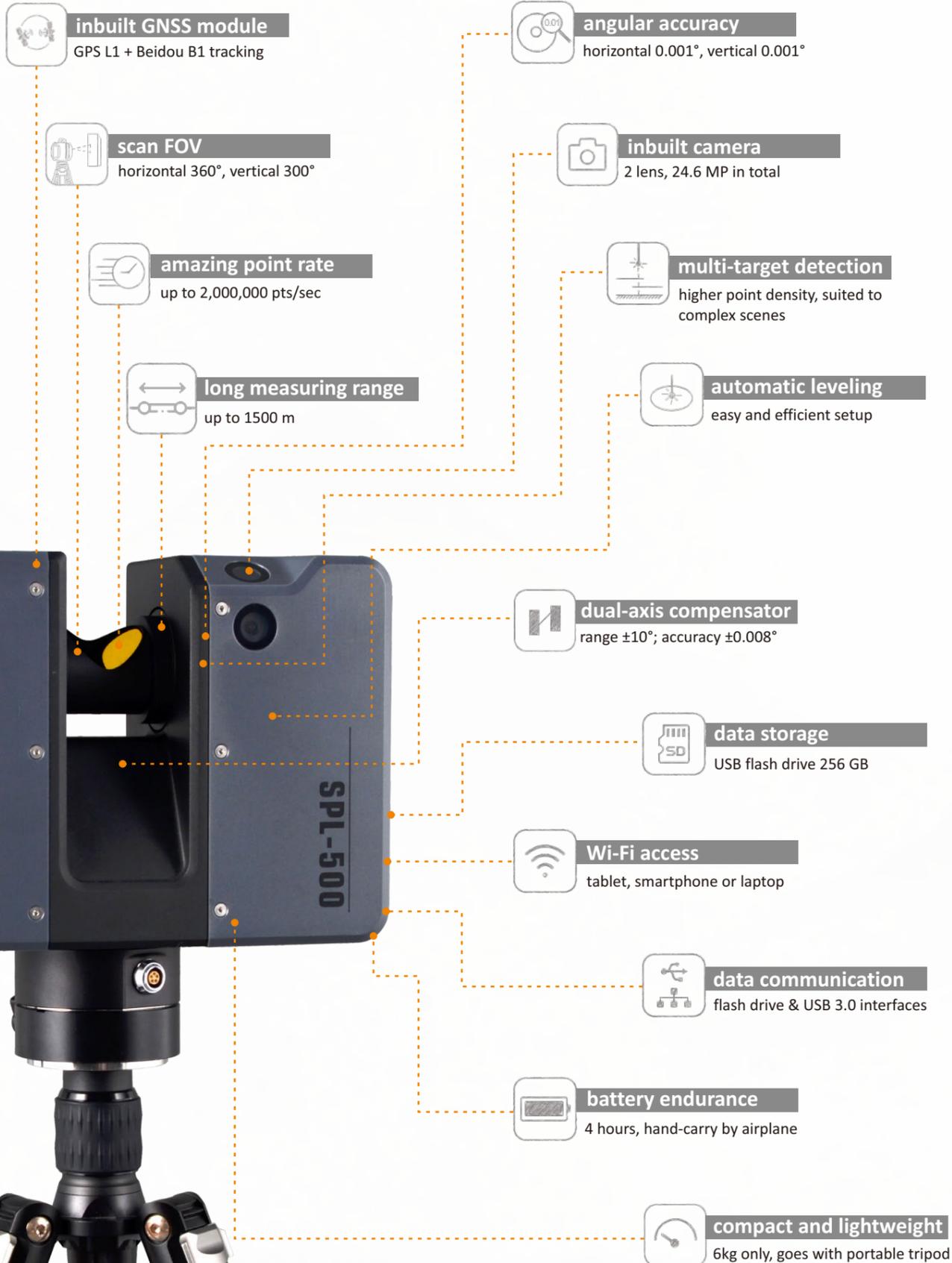


Configuration

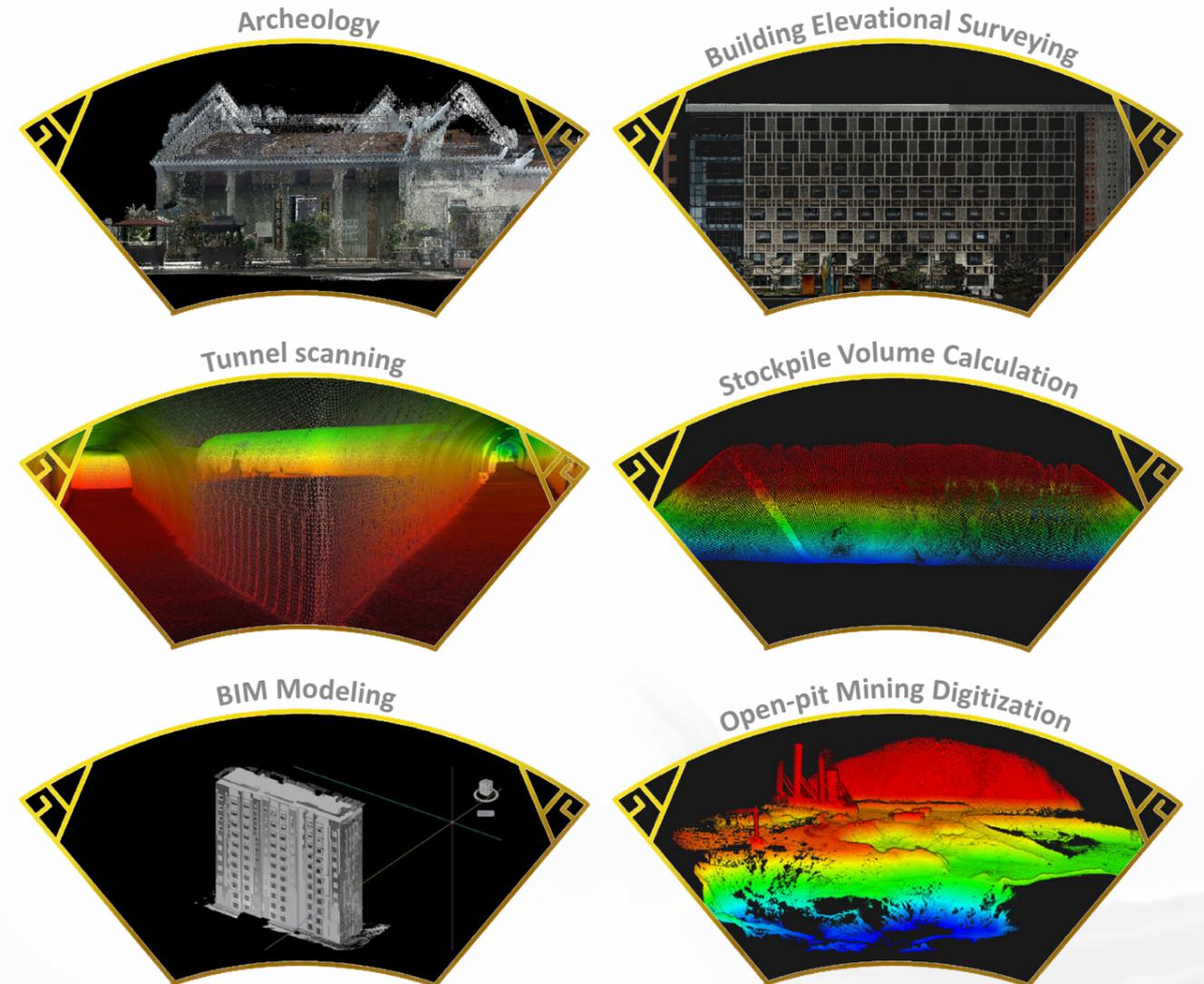
| No. | Item | Description | Quantity |
|------------------------|-----------------------|--|----------|
| standard configuration | | | |
| 1 | 3D Laser Scanner Unit | model: SPL-500 | 1 |
| 2 | Lens Protective Cover | | 1 |
| 3 | USB Flash Drive | USB 3.1, 256 GB | 1 |
| 4 | Rechargeable Battery | 28.8 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 |
| optional accessories | | | |
| 10 | scanner sphere | 6 nos. as one set, packed in a separate case ready to place in front and behind both | 6 |
| 11 | Backpack | | 1 |



Features

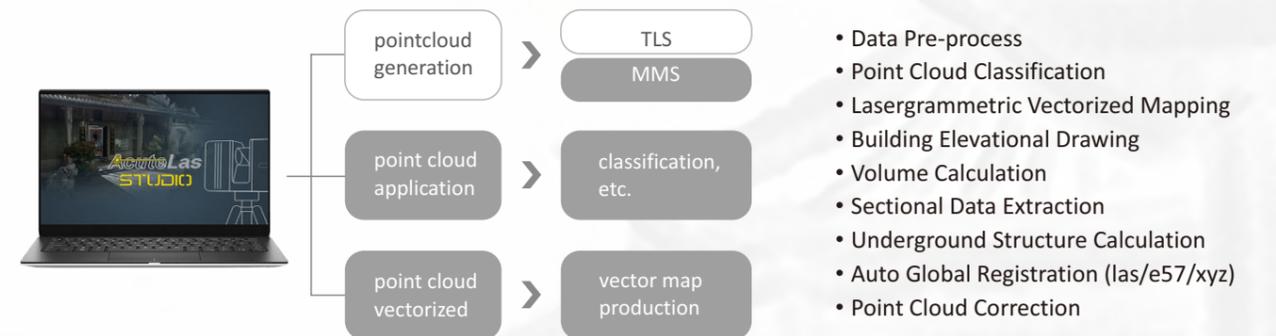


Applications



Software

Post-processing software-AcutelLas Studio



Note: the grey-box parts above are functional add-ins