TUNNEL SYSTEM SOLUTION



SSH0804W High-speed 3D Laser Scanner

Function description

- · Universal architecture design for various engineering applications;
- · Construction machinery grade anti-seismic、waterproof and dust-proof design, can be directly installed on the platform of construction vehicle to ensure the working ability in engineering environment;
- · Linear array scanning, high speed and high precision Scanning;
- · Dual-axis or single-axis measurement meets various practical applications;
- · Automatic scanning without human intervention;
- · Real-time data acquisition and processing capabilities to provide feasibility for real-time data applications ;
- · Standard Ethernet communication interface;
- · Meet the needs of long-term measurement;
- ·Optional self-positioning module, with the control point data to achieve the unification of spatial coordinates of the collected data;
- · Optional navigation and positioning module to realize vehicle automatic navigation measurement without assistance.

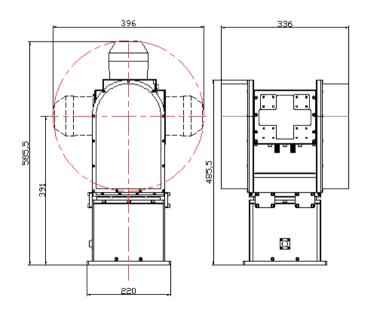


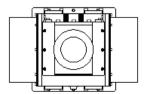
Product description

- · Dual-axis structure, automatic continuous linear fast scanning, no dead angle in scanning range;
- · 16-bit encoder with servo control accuracy up to 0.01°, 12m typical distance sampling density < 5mm in single-axis mode, as it is < 1mm for dual-axis mode;
- · Red light ranging, maximum distance 70m;
- · Horizontal installation, convenient and stable, with good seismic capacity;
- · No need for human intervention after measurement begins ;
- · Optional handle operator;
- · Standard Ethernet communication protocol.

Typical applications

- · Intelligent application of wet spraying machine
- · Automation application of Mine
- · Stockpile inventory at industrial and mining wharf





SSH0804W High-speed 3D Laser Scanner

	Parameter	Specific index
Equipment overall	3D scanning	Measuring distance : 2~70m; Infrared ranging : resolution 0.01mm, repeatability≤±3mm Relative measurement error ±2mm; Sampling frequency : ≥ 30kHz; Scanning mode : Vertical and Horizontal two-axis equidistant stepping; Data interface : Ethernet; Output data : 3D point cloud and surface model (Standard) Applied data analysis results (Optional)
	Positioning accuracy	self-positioning: Absolute accuracy 3cm; Navigation: Relative accuracy 1cm
	Protection level	IP66
	Operation temperature	-20~65℃
	Power consumption	24VDC , max power 150W
	Shock	100g@0.5ms , three-axis (half-sine)
	Vibration	4grms , 20 ~ 2000Hz
	Dimensions	336*396*585.5 mm
	Protection	With anti-polarity power supply protection, over-current self-recovery protection, automatic lock-in protection after power failure
Biaxial characteristics	Horizontal axis rotation angle range	±180°
	Vertical axis rotation angle range	-135°~90°
	Horizontal axis rotation speed	≥30°/s
	Vertical axis rotation speed	≤30°/s
	Angular acceleration	≥30°/s²
	Absolute encoder	18-bit single-loop absolute value
Ranging laser	Laser wavelength	905nm , Infrared
	Laser class	class 1

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