

FREESCAN COMBO

Hybrid Light Source and Multifunctional
Handheld 3D Scanner

DELIGHT THE METROLOGY SCANNING

FREESCAN COMBO

The FreeScan Combo, with a small size of 193x63x53mm and weighed only 620g, has dual light sources: blue laser and infrared VCSEL. Being a lightweight and portable metrology scanner, it is equipped with four working modes: multiple lines scanning, single line scanning, fine scanning, infrared scanning.

It can be used to achieve metrology-level precision inspection, reverse design, additive manufacturing, and other applications in many manufacturing sectors, including the automotive industries, aerospace, rail transportation, heavy industries, mold manufacturing, casting and foundry and medical industries.





ACCURACY

SHINING 3D®

LIGHT SOURCE

Blue laser + Infrared VSCEL Up to 0.02mm

620g

WEIGHT 620g COMPACT SIZE

193mm × 63mm × 53mm



BLUE LASER + INFRARED LIGHT

An innovative combination of blue laser and infrared light sources meets the needs of diverse industrial 3D scanning scenarios.



4 SCANNING MODES, MULTIPLE SCAN CHOICES

13 cross blue laser lines for global scanning; 7 parallel blue laser lines for fine scanning detailes; 1 single blue laser lines to obtain deep hole data; Infrared light source and large FOV for more applications.





0.02mm

A WISE CHOICE OF METROLOGY APPLICATION

Metrology-grade accuracy, the accuracy under the multiple lines scanning mode can achieve up to 0.02mm.



PRECISE SCANNING AND FINE DETAIL RESTORATION

Small scanning scope and 7 parallel laser lines. Scans fine features and accurately reproduces details











SPECIFICATION

| Product Model | FreeScan Combo | | | |
|------------------------------------|---|-------------------|------------------------|--------------------|
| Scan Mode | Multiple Lines Scan | Single Line Scan | Fine Scan | Infrared Scan |
| Light Source | 13 cross laser lines | Single laser line | 7 parallel laser lines | VCSEL Light Source |
| Working Distance | 300 mm | 300mm | 200 mm | 300mm |
| Scan Accuracy | Up to 0.02mm | | | |
| Scan Speed | 1,860,000 points/s 2,020,000 points/s | | | |
| Scan Depth | 360 mm | | | |
| Max. Scan Range | 520 mm × 510 mm | | | |
| Volumetric Accuracy* | 0.02 + 0.033 mm/m (Laser lines) | | | |
| Point Distance | 0.01mm-3mm | | | |
| Laser Class | Class ∥ (eye safe) | | | |
| Connection Standard | USB 3.0 | | | |
| Dimension | 193 mm x 63 mm x 53 mm | | | |
| Weight | 620 g | | | |
| Power Input | 12V, 5.0A | | | |
| Working Temperature | -20 ~ 40°C | | | |
| Working Humidity | 10 ~ 90% | | | |
| Certification | CE, FCC, ROHS, WEEE, KC, FDA, UKCA, IP50 | | | |
| Recommended Computer Configuration | OS: Win10, 64 bit; Graphics card: NVIDIA GTX/RTX series cards, higher or equal to GeForce RTX 3060; Video memory: ≥6 G; Processor: I7–10700; Memory: ≥32 GB | | | |

Notice: SHINING 3D reserves the right to modify or adjust above specifications and pictures.

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