Technical Parameter

| Type | | iReal 2E |
|-------------------|-------------------------------------|---|
| Light source | Category | Infrared VCSEL structured light |
| | Visibility | Invisible |
| | Safety | CLASS I (eye-safe)① |
| | Technology | Infrared linear-array structured light |
| | Color scanning | Support |
| Scanning features | Alignment modes without markers② | Texture/feature/mixed alignments |
| | Human body scanning | Invisible light/hair/dark environment scanning; automatically remove the layers of body shaking |
| | Medium/large-sized object③ | Optimal scanning distance range 300 mm ~ 500 mm |
| | | Effective working range 280 mm ~ 1000 mm |
| | | Maximum single scanning area up to 580 mm x 550 mm |
| Measurement rate | Maximum④ | 1,500,000 points/s |
| Detail | Point distance | 0.200 mm ~ 3 mm |
| Accuracy | Basic accuracy | Up to 0.100 mm |
| | Alignment accuracy⑤ | Up to 0.300 mm/m |
| Data output | Output formats | OBJ, STL, PLY, ASC, SK |
| | 3D printing | Support |
| Hardware | Working temperature | 0°C ~ 40°C |
| | Interface mode | USB 3.0 |
| | Weight | 850 g |
| | Dimensions | 140 mm × 94 mm × 258 mm |
| | Structure | 3 sets of invisible light sources & camera groups & auxiliary lights |
| | Working power supply | INPUT : 100 - 240VAC, 50 / 60Hz |
| | | OUTPUT : 24 = 3.75A, 90W MAX |
| Description: | | |

- ① Class1 LASER is a kind of low-energy light source, which has no biological hazards and will not cause damage to the human body or skin.
- ② When the item has continuous, non-repetitive, rich and varied geometric features/texture features, it can be directly scanned without sticking markers.
- 3 Maximum size of a single scan: recommended not to exceed 4 m. If the item size or data is too large, it can be registered after part scanning.
- ③ Scan speed is up to 1,000,000 points/second under standard mode while it can reach 1,500,000 points/second when the memory size of graphics card equals or exceeds 6G.
- (§) It supports markers alignment. Alignment deviation value (alignment accuracy value) refers to the deviation value obtained by measuring the centers of the two standard spheres under marker
- (1) ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and JJF 1951 specification, probing error (size) (PS) performance is evaluated. (2) ISO 17025 accredited: Based on VDI/VDE 2634 Part3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated.

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iReal 2E maximizes the performance in depth of field, scanning area, algorithm, texture reproduction and detail capturing, specially designed for medium to large-sized objects and human body 3D scanning.

iReal 2E adopts the Infrared VCSEL structured light technology to bring you the safest and most comfortable 3D scanning experience. Without attaching markers, a quick texture capturing and geometry acquisition can be achieved. Mixed alignment modes meet various scanning situations.



Art design

foam sculptures, clay sculptures, etc.)

product development, etc.

Medium and large sculptures (stone sculptures, urban sculptures,

Cultural relics (statues, parts of relics, parts of ancient buildings)

College art training, Clothing design, creative design, and derivative

3D Digital Solution

Body scan

Customization and re-creation of artistic portraits (bronze portraits, 3D printed portraits, sculptural portrait scene reproduction, etc.)

Film, video, game, VR, AR and other CG character modeling (can be combined with motion capture system)

Medical rehabilitation (spine orthopedics, neck brace, prosthesis, arm immobilizer, orthopedic helmet, etc.)

Human body parts customization (clothing customization, film and television armor customization, etc.)

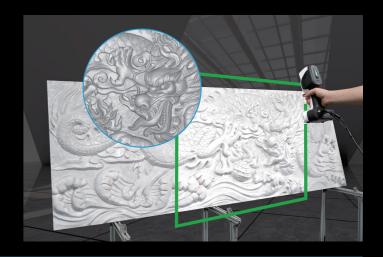
Product Features

Super large field of view

The largest scanning area is 580 X 550mm, and the large wide-angle field of view enables it to scan medium and large objects quickly and accurately.

Greater depth of field

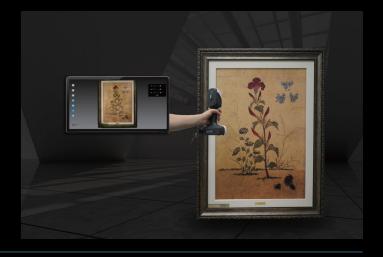
720mm scanning depth of field and better operation smoothness help you get started easily.



Smoother splicing ability

Using a new generation of 3D sensors and algorithm optimization, the data collection speed is as high as 1,500,000 points per second.

The characteristics of singleframe acquisition are more abundant, the splicing is smoother, and the scanning efficiency is higher.



"Invisible" scanning

Infrared VCSEL structured light is safe and invisible to human eyes, and the scanning process is more comfortable and safer.

Super black and hair scanning ability

Using the combined array structured light technology, it has stronger material adaptability, not only can scan more black material items, but also creatively solve the problem that other light sources are difficult to obtain when scanning.



Digital acquisition analysis

Plant growth morphology analysis (trunks and potted plants)

Forensic identification (measurement of human trauma area, footprint identification)

Medical diagnosis (spine correction screening)

3D comparative analysis of local body shape changes

Monitoring and analysis of cultural relic morphology

More application exploration

Car mat, luggage rack customization

Furniture three-dimensional display auxiliary modeling (such as sofa)

Data acquisition for 3D printing, etc.