

Technical Parameter

Tpye	iReal 2S	
Light source	Blue light	Infrared light
Visibility	Visible	Invisible
Safety	LED light (eye-safe)	CLASS I (eye-safe)
Support color scanning	Yes	
Color reproduction	24 bit	
Point distance	0.2 ~ 3 mm	0.5 ~ 3 mm
Point accuracy (single frame)	Up to 0.1 mm	Up to 0.15 mm
Alignment accuracy (for markers)	0.2 mm/m	0.25 mm/m
Alignment mode without markers	Texture/feature/mixed alignments	
Alignment mode with markers	Markers/mixed alignments	
Optimal scanning distance	400 mm	
Effective working range	300 ~ 600 mm	
Scan area	200 x 135 mm ~ 400 x 270 mm	200 x 165 mm ~ 400 x 330 mm
Frame rate	15 fps	
Output formats	OBJ, STL, PLY, ASC, SK	
Support 3D printing	Yes	
Temp range	5-40°C	
Interface mode	USB 3.0	
Weight	910 g	



I REAL 2S

**Invisible Light to
Capture Endless Colors**

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iREAL 2S



E-AR Device

- Intuitive Scanning
- Real-time Guidance
- Virtual Interaction

iReal 2S initiatively adopts double scattering speckle technology: blue LED light and infrared light. It maximizes performances in texture reproduction, accuracy, detail capturing, etc.

iReal 2S features in super HD texture capturing capacity, wide scan area, fast scanning speed, intelligent alignment, fully automatic post-processing algorithm. With its HD color reproduction, iReal 2S extremely meets the requirements of texture acquisition. It ensures best-in-class performance to scan human bodies, especially eyes and hairs.

iReal 2S 3D scanner is very user-friendly for making an easy and fast scanning. It streamlines workflows and creates easier color measurements.

Double scattering speckle technology

Versatile alignment modes

Automatic processing algorithm

Invisible light scanning

Super HD texture capturing

User-friendly Interface



Double Scattering Speckle Technology

iReal 2S simultaneously adopts blue LED light and invisible spectrum. This global initiative technology extends a wider range of work environments. Blue light offers high-resolution data acquisition with strong anti-interference capacity. Infrared light is insensitive to different materials and enlarges scan area with high efficiency.



Experience Invisible light 3D Scanning

iReal 2S adopts infrared light technology, making it totally safe and comfortable for scanning people, especially capturing 3D data of human eyes without any uncomfortableness. Hair scanning is always a difficulty for normal color 3D scanners, but iReal 2S has a strong ability in hair acquisition.



Versatile Alignment for Diverse Demands

iReal 2S supports texture/geometric/markers alignment. Scanning without markers: when object has continuous and irregular textures or geometric features, it can be scanned without any markers base on texture alignment and geometric alignment. Mixed alignment modes: scanning object without continuous or irregular textures or geometric features, iReal 2S combines 3 alignment modes and only needs few markers to finish it.



Human Body

Medical field, body part customization, 3D printing portrait, body art



Digital Sculpture

Stone/wood carving, clay/urban sculpture



Texture Acquisition

Culture relics digitalization, furniture online display, VR/AR rapid modeling, e-commerce 3D display



Industry/Art Design

University reverse design training, 3D printing, vehicle redesign, movie props