

Creality Sermoon S1 3D Scanner

Features:

Multi-Light Scanning System: Combines blue-laser lines (single/7/34) with NIR structured light to cover both detail work and marker-free scanning.

High Accuracy & Fine Detail: Captures small features with high precision (detail mode up to 0.02 mm) and tight volumetric accuracy for stable dimension results.

Fast Capture Performance: High frame-rate scanning and high measurement capture rates for quick, smooth scanning on medium to large objects.

Color & Texture Capture: Supports color mapping with an integrated RGB camera and supplemental lighting for texture-assisted alignment when needed.

Flexible Workflow & Connectivity: Works with CrealityScan on Windows/macOS, supports USB connection, and can go wireless using the Scan Bridge accessory.



Specifications	
Color Mapping	Supported
RGB Camera	Integrated HD RGB camera
Color Supplemental Light	White + Blue LEDs
Laser Safety Class	Class I / Class II (mode-dependent)
Wireless Scanning	Supported with Scan Bridge
Interface	USB (Type-C)
Device Size	225 mm × 53 mm × 76 mm
Device Weight	508 g
Operating Temperature	-10 °C to 40 °C
Operating Humidity	10–90% RH
Software Compatibility	CrealityScan 4.0 (Windows/macOS)
PC Requirements (Windows)	i7-Gen10 + NVIDIA 8GB VRAM + 32GB RAM (recommended)
PC Requirements (macOS)	M1/M2/M3/M4 + 16GB RAM
Certifications	CE / FCC / RoHS (market dependent)
Accessories Included	Scanner / USB Cable / Type-C Adapter / PSU + Adapters / Calibration Plate / Reflective Markers / Cloth / Carrying Case / Docs

Accessories Included	
-	Scanner
-	USB Cable
-	Type-C Adapter
-	PSU + Adapters
-	Calibration Plate
-	Reflective Markers

- Cloth
- Carrying Case
- Docs

Deep Hole Scanning Mode

Light Source	Single Blue Laser Line
Accuracy	Up to 0.02 mm
Volumetric Accuracy	0.02 mm + 0.04 mm/m
Point Capture Rate	84,000 measurements/s
Scanning Speed	Up to 90 FPS
3D Resolution	0.05–2 mm
Min Scan Volume	5 × 5 × 5 mm
Working Distance	200–600 mm
Outdoor Scanning	Below 100,000 lux
Alignment Mode	Marker / Global Marker
Single Capture Range	205×147@200 / 293×217@300 / 355×289@400 / 417×361@500 / 506×433@600
Deep Hole Scanning	Value

Detailed Scanning Mode

Light Source	7 Parallel Blue Laser Lines
Accuracy	Up to 0.02 mm
Volumetric Accuracy	0.02 mm + 0.03 mm/m (with Scale Bar)
Point Capture Rate	756,000 measurements/s
Scanning Speed	Up to 85 FPS
3D Resolution	0.05–2 mm
Min Scan Volume	5 × 5 × 5 mm
Working Distance	150–400 mm
Outdoor Scanning	Below 50,000 lux
Alignment Mode	Marker / Global Marker
Single Capture Range	205×147@200 / 293×217@300 / 355×289@400 / 417×361@500 / 506×433@600

High Speed Scanning Mode

Light Source	34 Cross Blue Laser Lines
Accuracy	Up to 0.05 mm
Volumetric Accuracy	0.05 mm + 0.10 mm/m
Point Capture Rate	1,428,000 measurements/s
Scanning Speed	Up to 30 FPS
3D Resolution	0.1–2 mm
Min Scan Volume	150 × 150 × 150 mm
Working Distance	200–600 mm
Outdoor Scanning	Below 100,000 lux

Alignment Mode	Marker / Global Marker
Single Capture Range	205×147@200 / 293×217@300 / 355×289@400 / 417×361@500 / 506×433@600

Marker-Free Scanning Mode	
Light Source	NIR Structured Light
Accuracy	Up to 0.05 mm
Volumetric Accuracy	0.05 mm + 0.10 mm/m
Point Capture Rate	4,600,000 measurements/s
Scanning Speed	Up to 30 FPS
3D Resolution	0.1–2 mm
Min Scan Volume	150 × 150 × 150 mm
Working Distance	170–1200 mm
Outdoor Scanning	Below 30,000 lux
Alignment Mode	Marker / Global / Geometry / Texture
Single Capture Range	650×531@600 / 1300×935@1200
Marker-Free Scanning	Value





Innovative 4-Lens NIR Structured Light

Standard stereo Lenses provide high-accuracy scanning.
Wide FoV offer an ultra-wide field of view for fast, marker-free scanning of large objects and human bodies.



Full hardware upgrade



Supports Expandable Scan Bridge

Switch to wireless scanning for unrestricted mobility.



Creality Sermoon S1

Versatile to the core, accurate evermore

