



Skaner 3D Creality Sermoon S1



Modelis: 4008050063

Gamintojas: CREALITY

EAN: 6977905741946

Prekės kodas: 577305

2,718.99€

Creality Sermoon S1 3D Scanner

The Sermoon S1 is a professional 3D scanner that combines very high accuracy and speed with remarkable versatility. The advanced Multi-Light system with blue lasers and NIR structured light enables precise scanning of both small details and large objects – without markers or spray, even in difficult lighting conditions. The device offers stable, smooth operation thanks to intelligent algorithms and effective temperature compensation. Powerful AI-enabled software simplifies the entire scanning and data processing process. It is a comprehensive tool designed for professional engineering, design, and manufacturing applications.

Versatile Multi-Light system

The Sermoon S1 uses a unique combination of several scanning technologies, allowing you to precisely match the operating mode to the specific task. A single laser line allows for accurate mapping of deep holes and hard-to-reach areas, 7 parallel blue laser lines capture fine details with

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high resolution, and 34 cross lines significantly speed up the scanning of medium and large objects. The whole is complemented by an innovative four-lens NIR structured light, which enables fast, markerless scanning of large objects, including human silhouettes.

Uncompromising metrological precision

The scanner offers a scanning accuracy of 0.02 mm and a volumetric accuracy of 0.02 mm + 0.08 mm/m. These parameters allow for precise, non-destructive inspections in various industries, as well as accurate reproduction of complex geometries and technical details. Thanks to its optimized optical path, the Sermoon S1 effectively handles deep cavities, narrow gaps, and recesses, maintaining high accuracy even in difficult scanning conditions.

High performance and impressive speed

The advanced hardware design allows for scanning speeds of up to 90 fps and data acquisition of up to 1,428,000 points per second. Parallel line and single line modes operate at up to 90 fps, while cross line mode operates at up to 70 fps, enabling fast scanning of large areas without losing detail. The increased field of view further speeds up work on larger objects by reducing the number of scanner passes required. The device allows you to scan objects ranging in size from 5 mm to 4000 mm, which means it is suitable for digitizing both small components and entire vehicles.

Intelligent software and stable operation

The built-in temperature compensation algorithm ensures stability and repeatability of measurements during long-term use. AI-supported software simplifies complex scanning processes by automating subsequent work steps. The Sermoon S1 integrates seamlessly with professional tools for further data processing, supporting standard file formats and enabling smooth post-processing. An additional advantage is the accurate, high-quality color reproduction, which enhances the visual value of the finished 3D models. One-Shot 3D imaging technology increases tracking stability and effectively reduces frame drops and alignment errors resulting from hand movement, which translates into higher accuracy and greater efficiency of the entire process.

Efficient scanning of large objects

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The enlarged field of view of a single frame significantly reduces the number of markers required, improves tracking stability, and realistically increases work efficiency. The maximum scanning area for the line laser is 506 × 433 mm at a distance of 600 mm, while the infrared mode allows you to scan an entire human silhouette in about 1 minute. This solution is designed for fast data acquisition without compromising quality control.

Stable operation in all lighting conditions

The scanner is designed to deliver repeatable and stable results both indoors and outdoors. Whether you're working in bright sunlight or complete darkness, the Sermoon S1 maintains high scan quality. The acceptable ambient light intensity reaches up to 100,000 lux for single and cross laser line modes and up to 50,000 lux for 7-line mode, giving you great freedom in choosing your workspace.

Professional software

The CrealityScan 4.0 system offers animated 3D calibrations, clear start screens, and a training environment that makes it easy for new users to get started. Advanced algorithms are responsible for precise local details, global marker tracking, and smooth scan alignment. AI features also include automatic model repair, including hairstyle changes to generate 3D-print-ready avatars. GPU acceleration enables real-time scanning at up to 90 fps, and laser line fusion is up to 2× more efficient. Availability on Windows, macOS, Android, and iOS makes working with data convenient and flexible, regardless of platform.

Included

- scanner
- USB 3.0 data cable (Type-C/Type-A)
- power adapter
- reflective markers (D6 mm x 10 sheets, D3 mm x 10 sheets)
- high-precision glass calibration plate
- Type-C adapter
- strap
- cleaning cloth
- waterproof box

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- user manual

General

Manufacturer	Creality
Model	Sermoon S1
Weight	508 g
Dimensions	225mm×53mm×76mm
Calibration plate	High-precision glass calibration plate
Wireless scanning	Supported in combination with wireless scanning accessories
Compatible systems	Windows/macOS; wireless scanning accessories are required for Android and iOS
Computer configuration requirements	Windows: The following or higher configurations are recommended: i7-Gen10 processor, Nvidia graphics card (8 GB VRAM), 32 GB RAM, Windows 10/11 (64-bit) Minimum configuration: i7-Gen7 processor, Nvidia graphics card (6 GB VRAM), 16 GB RAM, Windows 10/11 (64-bit); macOS: M1/M2/M3/M4 series, 16 GB RAM
Operating temperature	-10°C to 40°C
Operating humidity	10-90%RH

Single blue laser line mode

Accuracy	Up to 0.02 mm
Volume accuracy	0.02mm+0.08mm/m
Scanning speed	108,000 measurements per second
3D resolution	0.05-2mm
Scanning speed	Up to 90 frames per second

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Minimum scanning volume	5mm x 5mm x 5mm
Single capture range	205 mm x 147 mm at 200 mm; 293 mm x 217 mm at 300 mm; 355 mm x 289 mm at 400 mm; 417 mm x 361 mm at 500 mm; 506 mm x 433 mm at 600 mm
Working distance	200 mm–600 mm
Color mapping	Yes
Alignment mode	Marker / Global marker
Colored supplementary light	12 white LEDs
Outdoor scanning	Below 100,000 lux
Marker recognition enhancement	12 blue LEDs / 12 white LEDs
Safety class	Class II (eye safe)

7 parallel blue laser lines mode

Accuracy	Up to 0.02 mm
Volume accuracy	0.02 mm + 0.08 mm/m
Scanning speed	756,000 measurements per second
3D resolution	0.05-2mm
Scanning speed	Up to 90 frames per second
Minimum scanning volume	5mm x 5mm x 5mm
Single capture range	205 mm x 147 mm at 200 mm; 293 mm x 217 mm at 300 mm; 355 mm x 289 mm at 400 mm; 417 mm x 361 mm at 500 mm; 506 mm x 433 mm at 600 mm
Working distance	150 mm-400 mm
Color mapping	Yes
Alignment mode	Marker / Global marker

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Colored supplementary light	12 white LEDs
Outdoor scanning	Below 50,000 lux
Marker recognition enhancement	12 blue LEDs / 12 white LEDs
Safety class	Class I (eye safe)

34 intersecting blue laser lines mode

Accuracy	Up to 0.02 mm
Volume accuracy	0.02 mm + 0.08 mm/m
Scanning speed	1,428,000 measurements per second
3D resolution	0.05-2mm
Scanning speed	Up to 90 frames per second
Minimum scanning volume	5mm x 5mm x 5mm
Single capture range	205 mm x 147 mm at 200 mm; 293 mm x 217 mm at 300 mm; 355 mm x 289 mm at 400 mm; 417 mm x 361 mm at 500 mm; 506 mm x 433 mm at 600 mm
Working distance	200-600 mm
Color mapping	Yes
Alignment mode	Marker / Global marker
Colored supplementary light	12 white LEDs
Outdoor scanning	Below 100,000 lux
Marker recognition enhancement	12 blue LEDs / 12 white LEDs
Safety class	Class II (eye safe)

Minimum scanning range (mm): 5mm x 5mm x 5mm, Accuracy (mm): 0.02, Maximum scanning range (mm): 506 mm x 433 mm przy 600, GPSR Link: <https://psr->

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