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Creality Otter Lite

Creality Otter Lite 3D Scanner User Manual

Model: Otter Lite

1. Introduction

This manual provides comprehensive instructions for the safe and efficient operation of your Creality Otter Lite 3D Scanner. Please read this manual thoroughly before using the device to ensure proper setup, usage, and maintenance. Keep this manual for future reference.

2. Product Overview

The Creality Otter Lite is a portable, wireless 3D scanner designed for high-precision 3D model acquisition. It features a fully wireless design with a built-in WiFi 6 module and a detachable handle, offering flexibility for both handheld and stationary scanning. The device is capable of scanning objects ranging from 20mm to 2000mm with an accuracy of up to 0.05mm and a scanning speed of up to 30 frames per second (fps).

Figure 2.1: Creality Otter Lite 3D Scanner in operation, capturing a detailed statue.

The Otter Lite, especially when paired with the Lite Bridge, provides a seamless scanning experience without the need for external cables, thanks to its innovative Pogo Pin power interface. It supports 24-bit full-color scanning, anti-shake tracking, and can scan challenging black or metal objects without requiring spray.

3. Key Features

- **Wireless Design:** Features a built-in WiFi 6 module and a detachable wireless handle for untethered operation. The Pogo Pin interface ensures seamless power delivery.
- **High Accuracy:** Achieves scanning accuracy of up to 0.05mm, capturing fine details and contours.
- **Fast Scanning Speed:** Capable of scanning at up to 30 frames per second, enabling efficient data acquisition for various objects.
- **Anti-Shake Tracking:** Equipped with One-Shot 3D imaging technology for stable tracking and reduced likelihood of tracking loss, even during handheld scanning.
- **Versatile Object Scanning:** Scans objects ranging from 20x20x20mm³ to 2000x2000x2000mm³.
- **Black/Metal Object Scanning:** Capable of scanning black and metal surfaces directly without the need for

scanning spray.

- **24-Bit Full-Color Scanning:** Utilizes a million-pixel full-color RGB camera and advanced algorithms for true-to-life color reproduction.
- **Innovative 4-Lens Stereo Vision:** Features dual sets of lenses (short-focal and long-focal) to optimize scanning for both small and large objects.
- **Marker Scanning Support:** Incorporates 8 infrared lights for enhanced marker tracking, improving accuracy for objects with fewer geometric features.
- **CrealityScan 4.0 Software:** Professional 3D scanning software with user-friendly interface, powerful point cloud processing, and editing features.
- **Real-Time Mobile Preview:** Allows for real-time scanning preview and control via a connected mobile device.
- **Extended Battery Life:** The Lite Bridge handle includes a 3400mAh battery, providing up to 3 hours of continuous scanning.
- **Lightweight Design:** The main unit weighs only 300g, ensuring portability and ease of use.

Figure 3.1: Overview of Creality Otter Lite's primary features.

4. Setup

4.1 Unboxing and Initial Inspection

Carefully remove the Creality Otter Lite 3D Scanner and all accessories from the packaging. Verify that all components listed in the "What's in the Box" section are present and undamaged. The package includes the Otter Lite 3D Scanner unit.

4.2 Charging the Device

The Otter Lite is powered by a 3400mAh Lithium Ion battery integrated into the Lite Bridge handle. Before first use, fully charge the device. Connect the provided charging cable to the scanner's charging port and to a suitable power source. The device supports fast charging, reaching 80% capacity in approximately one hour. Battery indicator lights will show the charging status.

Figure 4.1: The Lite Bridge handle houses a 3400mAh battery for extended use.

4.3 Software Installation (CrealityScan 4.0)

Download and install the CrealityScan 4.0 software on your computer or mobile device. This software is essential for controlling the scanner, processing scan data, and exporting 3D models. Refer to the official Creality website for the latest software version and installation instructions.

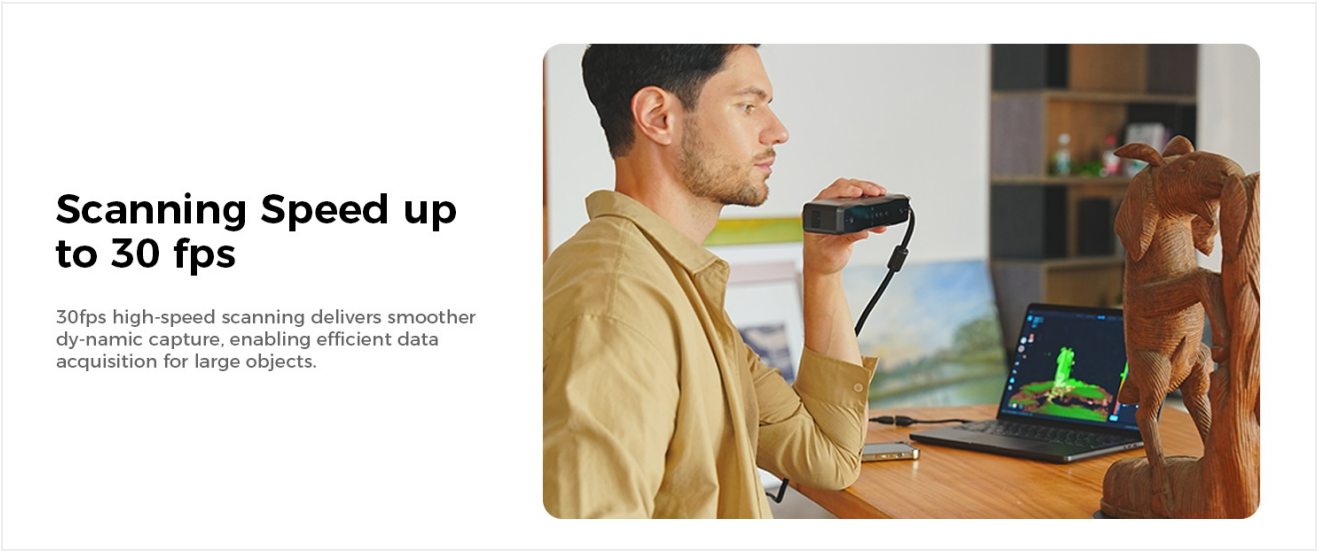

Figure 4.2: CrealityScan 4.0 software interface.

4.4 Connecting the Scanner

The Otter Lite connects wirelessly via WiFi 6. Ensure your computer or mobile device is connected to the same network or directly to the scanner's WiFi hotspot. The Pogo Pin interface on the Lite Bridge handle facilitates a stable and fast data transmission connection.

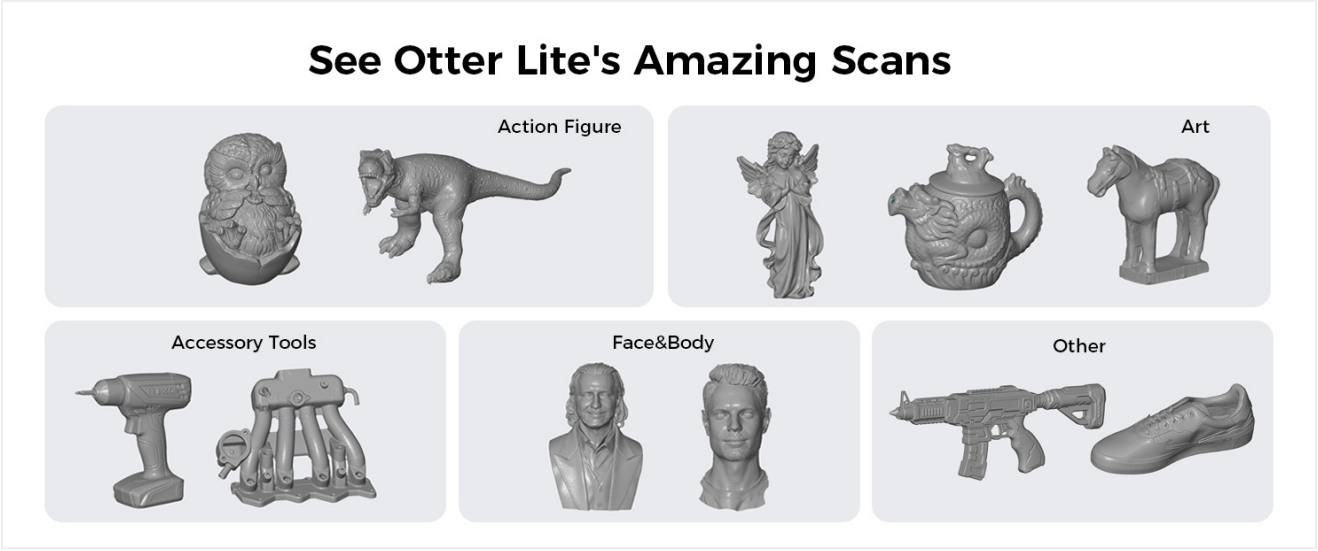

Figure 4.3: Real-time mobile preview during scanning.

5. Operating Instructions

5.1 Basic Scanning Process

1. **Power On:** Press the power button on the scanner. The indicator lights will illuminate.
2. **Launch Software:** Open CrealityScan 4.0 on your connected device.
3. **Select Scan Mode:** Choose the appropriate scanning mode (e.g., general, marker, face & body) based on your object and requirements.
4. **Position Object:** Place the object to be scanned on a stable surface. For optimal results, ensure good lighting.
5. **Start Scanning:** Press the 'Start/Pause' button on the scanner or within the software. Move the scanner smoothly around the object, maintaining a consistent distance.
6. **Monitor Progress:** Observe the real-time preview on your screen to ensure proper data capture and tracking.
7. **Adjust Exposure:** Use the exposure adjustment buttons on the scanner to optimize scanning in varying light conditions.
8. **Complete Scan:** Once the desired data is captured, press 'Start/Pause' again to stop.
9. **Process Data:** Use CrealityScan 4.0 to process the raw scan data, including alignment, point cloud editing, and mesh generation.
10. **Export Model:** Export the final 3D model in a compatible format for 3D printing or other applications.

Figure 5.1: Scanner controls for operation.

5.2 Scanning Specific Object Types

- **Small to Large Objects:** The 4-lens stereo vision system automatically adapts. For very small objects, ensure close proximity. For large objects, maintain a steady, sweeping motion.
- **Black/Metal Objects:** The Otter Lite is designed to scan these surfaces without spray. Ensure adequate lighting and a stable scanning environment.
- **Objects with Few Features (Marker Mode):** For smooth or featureless objects, apply scanning markers to the object. Select 'Marker Mode' in CrealityScan 4.0 for improved tracking and accuracy.
- **Face & Body Scanning:** Utilize the dedicated 'Face & Body mode' in the software. This mode employs a unique algorithm for detailed capture, including hair, and ensures eye safety with Class 1 laser technology.
- **Outdoor Scanning:** The advanced DOE (Diffractive Optical Element) 3D structure-light technology allows for excellent performance even in sunlight (up to 30,000 lux).

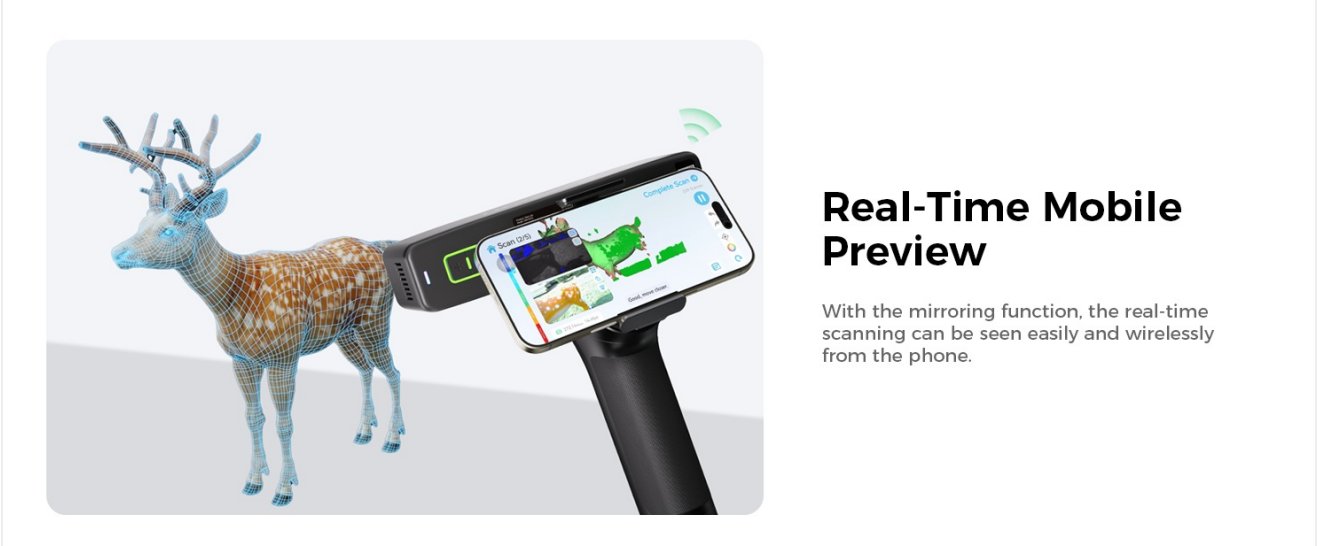

Figure 5.2: Using marker scanning for objects with limited features.

Figure 5.3: Scanning a red model car without spray.

6. Maintenance

6.1 Cleaning the Scanner

Regularly clean the scanner's lenses and body with a soft, dry, lint-free cloth. Avoid using abrasive cleaners or solvents that could damage the device. Ensure no dust or debris obstructs the optical components.

6.2 Battery Care

To prolong battery life, avoid fully discharging the device frequently. Store the scanner in a cool, dry place when not in use. If storing for extended periods, ensure the battery is charged to approximately 50%.

6.3 Software Updates

Periodically check the official Creality website for software updates for CrealityScan 4.0. Keeping your software updated ensures access to the latest features, performance improvements, and bug fixes.

6.4 Storage

Store the scanner in its original packaging or a protective case to prevent damage from impacts or environmental factors. Avoid exposing the device to extreme temperatures or humidity.

7. Troubleshooting

Problem	Possible Cause	Solution
Tracking Loss During Scan	Rapid movement, insufficient features on object, poor lighting.	Scan more slowly and smoothly. Ensure adequate lighting. For featureless objects, use marker mode. The anti-shake technology helps stabilize tracking.
Difficulty Scanning Black/Metal Objects	Highly reflective or light-absorbing surfaces.	The Otter Lite is designed to scan these without spray. Ensure consistent lighting and try adjusting exposure settings in the software.
Scanner Not Connecting to Software	WiFi connectivity issues, outdated software, driver problems.	Verify both scanner and device are on the same WiFi network. Restart both devices. Ensure CrealityScan 4.0 is the latest version. Check device drivers.
Poor Scan Quality/Accuracy	Incorrect scanning distance, object movement, dirty lenses.	Maintain a consistent scanning distance. Ensure the object is stable. Clean the scanner lenses. Calibrate the scanner if necessary (refer to software instructions).
Battery Drains Quickly	Prolonged use, battery degradation.	Ensure the battery is fully charged before use. Reduce continuous scanning time. Consider replacing the battery if it's old and performance has significantly degraded.

8. Specifications

Feature	Detail
Model	Otter Lite
Scanning Accuracy	Up to 0.05mm
Scanning Speed	Up to 30 fps
Object Size Range	20x20x20mm³ to 2000x2000x2000mm³

Feature	Detail
Color Scanning	24-Bit Full-Color (Million-pixel RGB camera)
Connectivity	WiFi 6, Pogo Pin
Battery Type	1 Lithium Ion battery (included)
Battery Capacity	3400mAh (in Lite Bridge handle)
Main Unit Weight	300g
Package Dimensions	12.6 x 10.24 x 4.33 inches
Package Weight	5.73 Pounds
Manufacturer	Creality
First Available Date	May 21, 2025

9. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official Creality website. Creality provides customer support for technical assistance, troubleshooting, and service inquiries.
Official Creality Website: www.creality.com
Please retain your proof of purchase for warranty claims.

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Related Documents - Otter Lite

	Creality Otter Lite 3D Scanner Quick Guide - Features, Specs, and Setup Explore the Creality Otter Lite 3D Scanner with this comprehensive quick guide. Learn about its features, technical specifications, setup instructions, and troubleshooting tips for high-precision 3D scanning.
	Creality CR-Scan Otter 3D Scanner Product Manual This manual provides a comprehensive guide to the Creality CR-Scan Otter, a high-precision, handheld 3D scanner. It covers product introduction, specifications, equipment overview, button functions, LED indicator status, packing list, software installation, device connection, first scan procedures, FAQs, and troubleshooting.

	[Creality CR-Scan Ferret 3D Scanner User Manual] Comprehensive user manual for the Creality CR-Scan Ferret 3D Scanner, detailing its specifications, setup, scanning workflows, PC software usage, tips, and frequently asked questions. Learn how to achieve high-quality 3D scans for various applications.
	[Creality Ender-5 Plus 3D Printer Guide Book] Comprehensive guide book for the Creality Ender-5 Plus 3D printer, covering assembly, setup, operation, and maintenance. Includes detailed instructions, safety warnings, and component lists.
	[Creality Scan Bridge Quick Guide: Wireless 3D Scanning Setup] A comprehensive quick guide to setting up and using the Creality Scan Bridge for wireless 3D scanning. Learn about its features, connection methods, and troubleshooting tips for Creality 3D scanners.
	[Creality CR-10 SE 3D Printer: User Manual and Guide] Comprehensive guide for the Creality CR-10 SE 3D printer, covering setup, operation, maintenance, troubleshooting, and specifications. Learn how to get started with your new 3D printer.

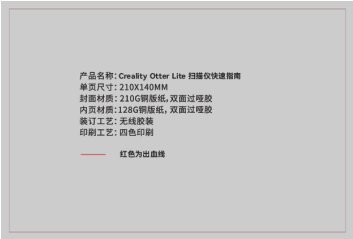
Documents - Creality – Otter Lite

[pdf] User Manual Guide

Creality Otter Lite 20250422 BedienungsanleitungCreality 3D Material ShopCreality Manualcdn shopify s files 1 0264 8791 4555 Manual v 1750161081 Download manualen her og få vejledningBedienungsanleitungCreality Scanner Køb hos Saga 3DsagaCreality d2f782ca 8445 48dd 9082 0e3a8c9effcbCreality 0609 2115 1637 0e3a8c9effcb 1751282020cdn ||| ||| Creality Otter Lite Creality Otter Lite 3D Scanner No Wires, No Limits Quick Guide V1.0 01 PRODUCT INTRODUCTION Creality Otter Lite is a high-precision, handheld, all-in-one 3D scanner compatible with scanning small, medium and large object

Creality **Otter Lite** Creality **Otter Lite** 3D Scanner No Wires, No Limits Quick Guide V1.0 01 PRODUCT INTRODUCTION Creality **Otter Lite** is a high-precision, handheld, all-in-one 3D scanner compatible with scanning small, medium and large objects, with a maximum accuracy of 0.05mm. From small scre...

lang:en score:47 filesize: 4.1 M page_count: 40 document date: 2025-05-06



[Creality Otter Lite 3D Scanner Quick Guide - Features, Specs, and Setup]

Explore the Creality Otter Lite 3D Scanner with this comprehensive quick guide. Learn about its features, technical specifications, setup instructions, and troubleshooting tips for high-precision 3D scanning.

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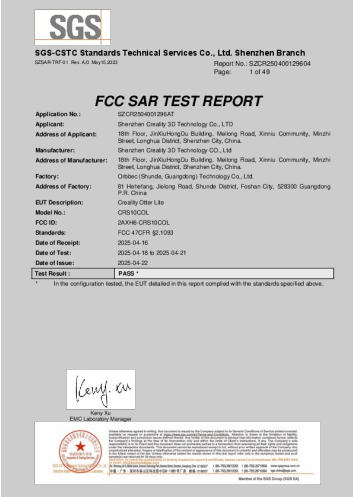
SGS

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR250400129604

Page: 1 of 49

FCC SAR TEST REPORT

Application No.:	SZCR250400129AT
Applicant:	Shenzhen Creality 3D Technology Co., LTD
Address of Applicant:	18th Floor, JinXuHongDu Building, Meilong Road, Ximiu Community, Minzhi Street, Longhua District, Shenzhen City, China.
Manufacturer:	Shenzhen Creality 3D Technology CO., Ltd
Address of Manufacturer:	18th Floor, JinXuHongDu Building, Meilong Road, Ximiu Community, Minzhi Street, Longhua District, Shenzhen City, China.
Factory:	Cktbec (Shunde, Guangdong) Technology Co., Ltd.
Address of Factory:	81 Hehefang, Jielong Road, Shunde District, Foshan City, 528300 Guangdong P.R. China
EUT Description:	Creality Otter Lite
Model No.:	CRS10COL
FCC ID:	2AXH6-CRS10COL
Standards:	FCC 47CFR §2.1093
Date of Receipt:	2025-04-16
Date of Test:	2025-04-18 to 2025-04-21
Date of Issue:	2025-04-22
Test Result :	PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Kerry Xu
EMC Laboratory Manager

[pdf] Test Report SAR Rating

SAR report Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZSAR-TRF-01 Rev. A/0 May15,2023 R ... ion: 81 Hehefang, Jielong Road, Shunde District, Foshan City, 528300 Guangdong P.R. China Creality **Otter Lite** Model No.: CRS10COL FCC ID: 2AXH6-CRS10COL Standards: FCC 47CFR 2.1093 Date of Rec...

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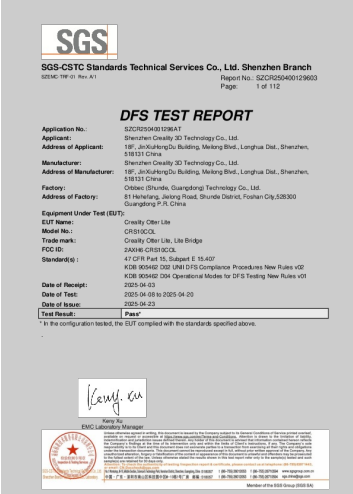
SGS

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR250400129603

Page: 1 of 112

DFS TEST REPORT

Application No.:	SZCR250400129EAT
Applicant:	Shenzhen Creality 3D Technology Co., Ltd.
Address of Applicant:	18F, JinXuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, 518131 China
Manufacturer:	Shenzhen Creality 3D Technology Co., Ltd.
Address of Manufacturer:	18F, JinXuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, 518131 China
Factory:	Cktbec (Shunde, Guangdong) Technology Co., Ltd.
Address of Factory:	81 Hehefang, Jielong Road, Shunde District, Foshan City,528300 Guangdong P.R. China
Equipment Under Test (EUT):	
EUT Name:	Creality Otter Lite
Model No.:	CRS10COL
Trade mark:	Creality Otter Lite, Lite Bridge
FCC ID:	2AXH6-CRS10COL
Standard(s) :	47 CFR Part 15, Subpart E 15.407 KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 KDB 905462 D04 Operational Modes for DFS Testing New Rules v01
Date of Receipt:	2025-04-03
Date of Test:	2025-04-08 to 2025-04-20
Date of Issue:	2025-04-23
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Kerry Xu
EMC Laboratory Manager

[pdf] Test Report

DFS report Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: ... District, Foshan City,528300 Guangdong P.R. China Equipment Under Test EUT : EUT Name: Creality **Otter Lite** Model No.: CRS10COL Trade mark: Creality **Otter Lite**, Lite Bridge FCC ID: 2AXH6-CRS1...

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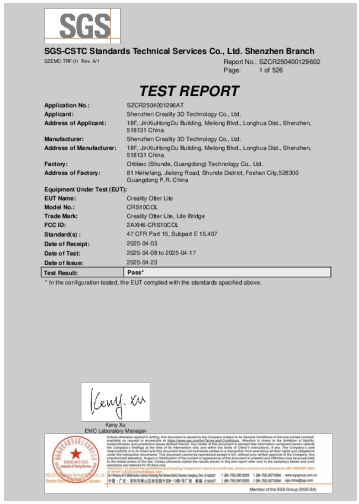
SGS

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400129602 Page: 1 of 526

TEST REPORT

Application No.:	SZCR250400129602AT
Applicant:	Shenzhen Creality 3D Technology Co., Ltd.
Address of Applicant:	18F, JinXuKong Du Building, Meilong Blvd., Longhua Dist., Shenzhen, 518131 China
Manufacturer:	Shenzhen Creality 3D Technology Co., Ltd.
Address of Manufacturer:	18F, JinXuKong Du Building, Meilong Blvd., Longhua Dist., Shenzhen, 518131 China
Factory:	Ohbec (Shunde, Guangdong) Technology Co., Ltd.
Address of Factory:	81 Hehefang, Jielong Road, Shunde District, Foshan City,528300 Guangdong P.R. China
Equipment Under Test (EUT)	
EUT Name:	Creality Otter Lite
Model No.:	CRS10COL
Trade Mark:	Creality Otter Lite, Lite Bridge
FCC ID:	2AXH6-CRS10COL
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2025-04-03
Date of Test:	2025-04-08 to 2025-04-17
Date of Issue:	2025-04-23
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Kenny Xu

EMC Laboratory Manager

[pdf] Test Report

5G report P1 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: ... District, Foshan City,528300 Guangdong P.R. China Equipment Under Test EUT : EUT Name: Creality **Otter Lite** Model No.: CRS10COL Trade Mark: Creality **Otter Lite**, Lite Bridge FCC ID: 2AXH6-CRS1...

lang:en score:22 filesize: 5.44 M page_count: 230 document date: 2025-05-16

Shenzhen Creality 3D Technology Co.,Ltd.

Date: 2025-04-09

TO: Federal Communication Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Regarding: FCC ID: 2AXH6-CRS10COL

To whom it may concern:

We, the undersigned, hereby authorize SGS-CSTC Standards Technical Services Co., Ltd. (SGS) to act on our behalf in all manners relating to application for equipment authorization with respect to the FCC ID above, including signing of all documents relating to these matters. Any and all acts carried out by the agent on our behalf shall have the same effect as acts of our own.

We, the undersigned, hereby certify that we are not subject to a denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).

Where our agent signs the application for certification on our behalf, I acknowledge that all responsibility for complying with the terms and conditions for Certification, as specified by SGS North America, Inc., still resides with Shenzhen Creality 3D Technology Co.,Ltd.

This authorization is valid until further written notice from the applicant.

Print Name: Lucy Li Title: Safety engineer

Signature:

On behalf of Company: Shenzhen Creality 3D Technology Co.,Ltd.

Telephone: 13410218975

E-mail: liyulu@creality.com

[pdf]

DW8 FCC POA Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

Shenzhen Creality 3D Technology Co.,Ltd. Date: 2025-04-09 TO: Federal Communication Commission Equipment Authorization Branch 7435 Oakland Mills Road Columbia, MID 21046 Regarding: FCC ID: 2AXH6-CRS10COL To whom it may concern: We, the undersigned, hereby authorize SGS-CSTC Standards Technical Servi...

lang:en score:22 filesize: 27.38 K page_count: 1 document date: 2025-05-12

Shenzhen Creality 3D Technology Co.,Ltd.

Date: 2025-04-09

TO: Federal Communication Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

From:

Regarding: Confidentiality Request regarding application for FCC ID: 2AXH6-CRS10COL

LONG TERM CONFIDENTIALITY

Pursuant to 47 CFR Section 0.459 and 0.457 of the commission's rules, the applicant hereby requests confidential treatment of the documents listed below, associated with the certification application referenced above.

Schematic(s)
Block Diagrams
Operational Descriptions
Software Security Description
Tune-up procedure

The documents above contain proprietary information not released to the public. Public disclosure of this information may prove harmful to the business of the applicant.

SHORT TERM CONFIDENTIALITY

Additionally, the applicant requests the following documents be held confidential until the device is marketed or 180 days from the grant date, whichever is less. If the device is marketed within 180 days of the Grant Date, the applicant will notify the TCB per FCC KDB 726020 D01 Confidentiality Request Procedures.

Delete any document that is NOT included in your application
External Photos
Internal Photos
Test Setup Photos
User manual(s)

Print Name: Lucy Li Title: Safety engineer

Signature:

On behalf of Company: Shenzhen Creality 3D Technology Co.,Ltd.

Telephone: 13410218975

E-mail: liyulu@creality.com

[pdf] Confidentiality Request Letter

DW8 FCC Confidentiality Letter Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

Shenzhen Creality 3D Technology Co.,Ltd. Date: 2025-04-09 TO: Federal Communication Commission Equipment Authorization Branch 7435 Oakland Mills Road Columbia, MID 21046 From: Regarding: Confidentiality Request regarding application for FCC ID: 2AXH6-CRS10COL LONG TERM CONFIDENTIALITY Pursuant to...

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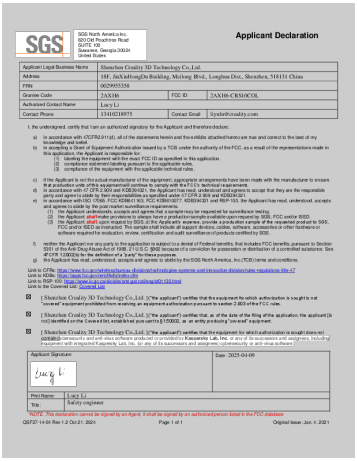


Applicant Declaration

SGS North America Inc.
620 Old Peachtree Road
Suite 100
Suwanee, Georgia 30024
United States

Applicant Legal Business Name	Shenzhen Creality 3D Technology Co.,Ltd.		
Address	18F, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, 518131 China		
FRN	0029955358		
Grantee Code	2AXH6	FCC ID:	2AXH6-CRS10COL
Authorized Contact Name	Lucy Li		
Contact Phone	13410218975	Contact Email	liyuhui@creality.com

I, the undersigned, certify that I am an authorized signatory for the Applicant and therefore declare:

a) in accordance with 47CFR2.911(d), all of the statements herein and the exhibits attached hereto are true and correct to the best of my knowledge and belief;
b) in accepting a Grant of Equipment Authorization issued by a TCB, under the authority of the FCC, as a result of the representations made in this application, the Applicant is responsible for:
(1) ensuring that the equipment for which FCC ID is specified in this application,
(2) compliance statement labelling pursuant to the applicable rules,
(3) compliance of the equipment with the applicable technical rules.
c) if the Applicant is not the actual manufacturer of the equipment, appropriate arrangements have been made with the manufacturer to ensure that the equipment will be produced with consistent characteristics as to meet the requirements of the rules;
d) in accordance with 47 CFR 2.903 and KDB 594281, the Applicant has read, understood and agrees to accept that they are the responsible party and agree to abide by their responsibilities as specified under 47 CFR 2.909 and KDB 594281;
e) in accordance with 47 CFR 2.911(d)(5), KDB 594281 and KDB 726920, KDB 594281 and RSP-100, the Applicant has read, understood, accepts and will implement in order to, for post market surveillance requirements:
(1) the Applicant understands, accepts and agrees that a sample may be requested for surveillance testing;
(2) the Applicant shall make provisions to always have a production sample available upon request by SGS, FCC and/or IISED;
(3) the Applicant shall upon request by SGS or the Applicant's expense, provide a production sample of the requested product to SGS, FCC and/or IISED, including any applicable support equipment, cables, power supplies, software or other hardware or software required for evaluation, review, certification and audit surveillance of products certified by SGS;
f) neither the Applicant nor any party to the application is subject to a denial of Federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862 because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the definition of a "party" for these purposes.
g) the Applicant has read, understood, accepts and agrees to abiding the SGS North America, Inc.(TCB) terms and conditions.

Link to CFRs: https://www.fcc.gov/wireless/bureau-divisions/technology-systems-and-innovation-division/rules-regulations-title-47
Link to KDBs: https://apps.fcc.gov/oetcf/kdb/index.cfm
Link to RSP-100: https://www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/h_sf01183.html
Link to the Covered List: Covered List

☒ I Shenzhen Creality 3D Technology Co.,Ltd.,("the applicant") certifies that the equipment for which authorization is sought is not "covered" equipment prohibited from receiving an equipment authorization pursuant to section 2.903 of the FCC rules.

☒ I Shenzhen Creality 3D Technology Co.,Ltd.,("the applicant") certifies that, as of the date of the filing of the application, the applicant [is not] identified on the Covered list, established pursuant to § 1.50002, as an entity producing "covered" equipment.

☒ I Shenzhen Creality 3D Technology Co.,Ltd.,("the applicant") certifies that the equipment for which authorization is sought does not contain cybersecurity and anti-virus software produced or provided by Kaspersky Lab, Inc. or any of its successors and assignees, cybersecurity or anti-virus software equipment with integrated Kaspersky Lab, Inc. (or any of its successors and assignees) cybersecurity or anti-virus software.

Applicant Signature: Lucy Li — Date: 2025-04-09

Print Name: Lucy Li
Title: Safety engineer

NOTE: This declaration cannot be signed by an Agent, it shall be signed by an authorized person listed in the FCC database

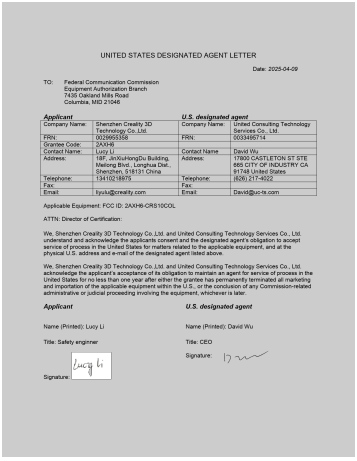
QSF27-14-04 Rev 1.2 Oct 21, 2024 — Page 1 of 1 — Original Issue: Jan. 4, 2021

[pdf] Decleration of Conformity Label

Item 1 Chris Bohn FCC Declaration Letter Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS North America Inc. 620 Old Peachtree Road SUITE 100 Suwanee, Georgia 30024 United States Applicant Declaration Applicant Legal Business Name Address FRN Grantee Code Authorized Contact Name Contact Phone Shenzhen Creality 3D Technology Co.,Ltd. 18F, JinXiuHongDu Building, Meilong Blvd., Long...

lang:en score:21 filesize: 116.64 K page_count: 1 document date: 2025-05-12



UNITED STATES DESIGNATED AGENT LETTER

Date: 2025-04-09

TO: Federal Communication Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MID 21046

Applicant		*U.S. designated agent*	
Company Name:	Shenzhen Creality 3D Technology Co.,Ltd.	Company Name:	United Consulting Technology Services Co., Ltd.
FRN:	0029955358	FRN:	0033495714
Grantee Code:	2AXH6		
Contact Name:	Lucy Li	Contact Name	David Wu
Address:	18F, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, 518131 China	Address:	17800 CASTLETON ST STE 669 CITY OF INDUSTRY CA 91748 United States
Telephone:	13410218975	Telephone:	(626) 217-4922
Fax:		Fax:	
Email:	liyuhui@creality.com	Email:	David@uc-tk.com

Applicable Equipment: FCC ID: 2AXH6-CRS10COL

ATTN: Director of Certification:

We, Shenzhen Creality 3D Technology Co.,Ltd. and United Consulting Technology Services Co., Ltd. understand and acknowledge the applicant's consent and the designated agent's obligation to accept service of process in the United States for matters related to the applicable equipment, and all the physical U.S. address and e-mail of the designated agent listed above.

We, Shenzhen Creality 3D Technology Co.,Ltd. and United Consulting Technology Services Co., Ltd. acknowledge the applicant's acceptance of its obligation to maintain an agent for service of process in the United States for no less than one year after either the grantee has permanently terminated all marketing and importation of the applicable equipment within the U.S., or the conclusion of any Commission-related administrative or judicial proceeding involving the equipment, whichever is later.

Applicant

Name (Printed): Lucy Li

Title: Safety engineer

Signature: Lucy Li

U.S. designated agent

Name (Printed): David Wu

Title: CEO

Signature:

[pdf] Decleration of Conformity Agent Authorization

4 FCC Agent Letter doc tst US letter Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

UNITED STATES DESIGNATED AGENT LETTER TO: Federal Communication Commission Equipment Authorization Branch 7435 Oakland Mills Road Columbia, MID 21046 Date: 2025-04-09 Applicant Company Name: FRN: Grantee Code: Contact Name: Address: Telephone: Fax: Email: Shenzhen Creality 3D Technology Co.,Ltd....

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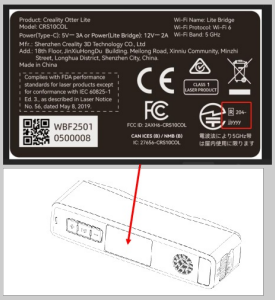

Product: Creality Otter Lite
Model: CRS10COL
Power(Type-C): 5V⎓ 3A or Power(Lite Bridge): 12V⎓ 2A
Mfr.: Shenzhen Creality 3D Technology CO., Ltd
Add: 18th Floor, JinXiuHongDu Building,Meilong Road, Xinniu Community, Minzhi Street, Longhua District, Shenzhen City, China
Made in China
Wi-Fi Name: Lite Bridge
Wi-Fi Protocol: Wi-Fi 6
Wi-Fi Band: 5 GHz
Complies with TÜV certification standards for laser products except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019
CLASS 1 LASER PRODUCT
WBF2501
0500008
FCC ID: 2AXH6-CRS10COL
CAN ICES (B) / NMB (B)
IC: 21744-CRS10COL

Size:48mm*28mm

[pdf] Label

Liao Christy Shenzhen Label Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

Size:48mm*28mm ...

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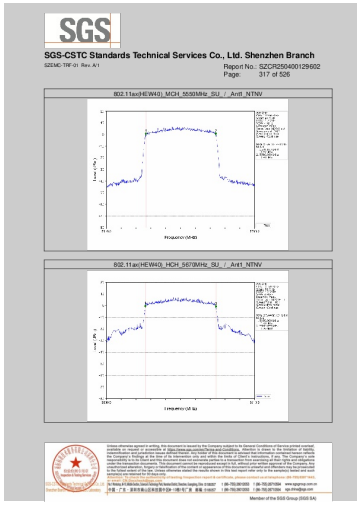

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5G report P4 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400129602 Page: 317 of 526 802.11ax HEW40 _MCH_5550MHz_SU_ / _Ant1_NTNV 802.11ax HEW40 _HCH_5670MHz_SU_ / _Ant1_NTNV SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC...

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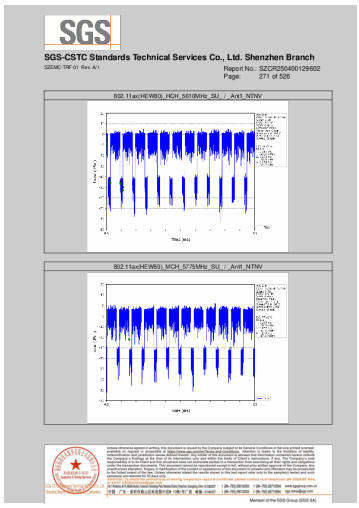

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5G report P3 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400129602 Page: 271 of 526 802.11ax HEW80 _HCH_5610MHz_SU_ / _Ant1_NTNV 802.11ax HEW80 _MCH_5775MHz_SU_ / _Ant1_NTNV SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC...

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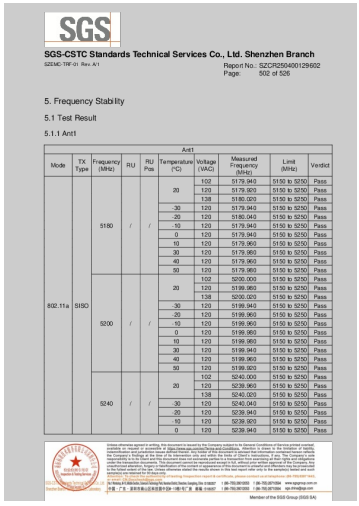

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5G report P8 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400129602 Page: 502 of 526 5. Frequency Stability 5.1 Test Result 5.1.1 Ant1 Mode TX Frequency Type MHz RU 5180 / 802.11a SISO 5200 / 5240 / Ant1 RU Temperature Voltage Pos ...

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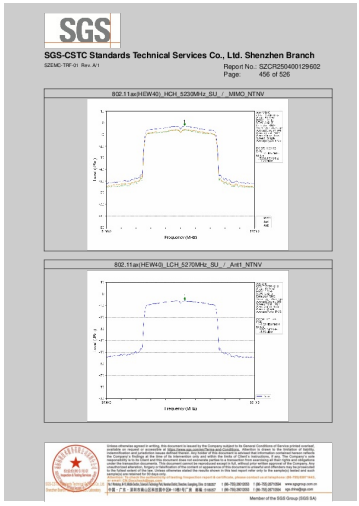

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5G report P7 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400129602 Page: 456 of 526 802.11ax HEW40 _HCH_5230MHz_SU_ / _MIMO_NTNV 802.11ax HEW40 _LCH_5270MHz_SU_ / _Ant1_NTNV SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC...

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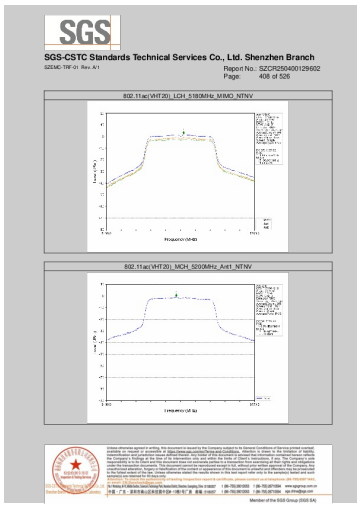

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5G report P6 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400129602 Page: 408 of 526 802.11ac VHT20 _LCH_5180MHz_MIMO_NTNV 802.11ac VHT20 _MCH_5200MHz_Ant1_NTNV SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A...

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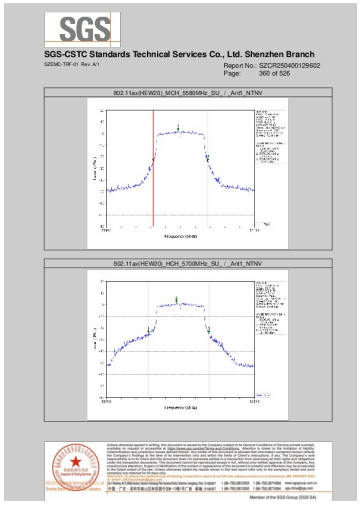

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5G report P5 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400129602 Page: 360 of 526 802.11ax HEW20 _MCH_5580MHz_SU_ / _Ant1_NTNV 802.11ax HEW20 _HCH_5700MHz_SU_ / _Ant1_NTNV SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC...

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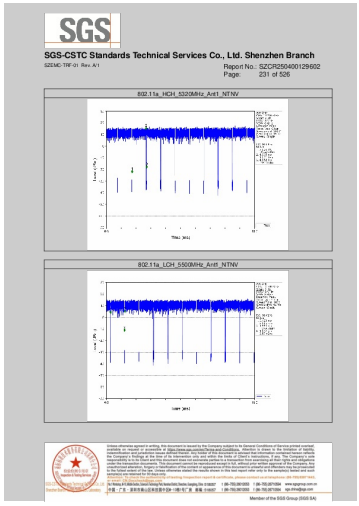

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5G report P2 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400129602 Page: 231 of 526 802.11a_HCH_5320MHz_Ant1_NTNV 802.11a_LCH_5500MHz_Ant1_NTNV SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZEMC-TRF-01 Rev. A/1 Report No.: ...

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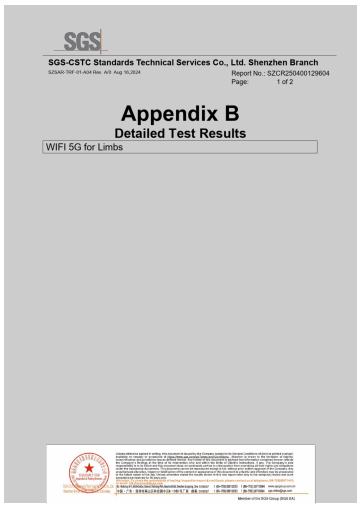

[pdf] SAR Rating

Appendix B Detailed Test Results Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZSAR-TRF-01-A04 Rev. A/0 Aug 16,2024 Report No.: SZCR250400129604 Page: 1 of 2 Appendix B Detailed Test Results WIFI 5G for Limbs Test Laboratory: SGS-SAR Lab Date: 2025/4/18 CRS10COL WIFI 5G 802.11n HT20 52CH Side 2 0mm MIMO ...

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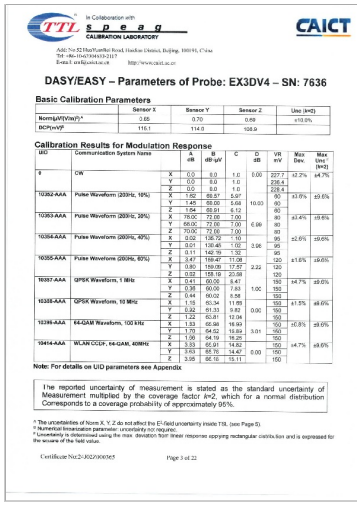

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evan mi Appendix C Calibration certificate p2 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

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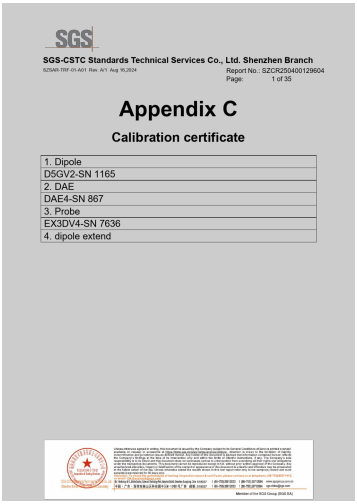
SGS

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01-A01 Rev. A/1 Aug 16,2024

Report No.: SZCR250400129604

Page: 1 of 35

Appendix C

Calibration certificate

1. Dipole
D5GV2-SN 1165
2. DAE
DAE4-SN 867
3. Probe
EX3DV4-SN 7636
4. dipole extend

[pdf]

evan mi Appendix C Calibration certificate p1 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZSAR-TRF-01-A01 Rev. A/1 Aug 16,2024 Report No.: SZCR250400129604 Page: 1 of 35 Appendix C Calibration certificate 1. Dipole D5GV2-SN 1165 2. DAE DAE4-SN 867 3. Probe EX3DV4-SN 7636 4. dipole extend ...

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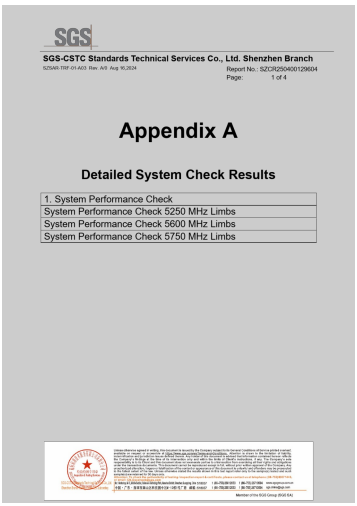
SGS

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01-A03 Rev. A/0 Aug 16,2024

Report No.: SZCR250400129604

Page: 1 of 4

Appendix A

Detailed System Check Results

1. System Performance Check
System Performance Check 5250 MHz Limbs
System Performance Check 5600 MHz Limbs
System Performance Check 5750 MHz Limbs

[pdf] SAR Rating

evan mi Appendix A Detailed System Check Results Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch SZSAR-TRF-01-A03 Rev. A/0 Aug 16,2024 Report No.: SZCR250400129604 Page: 1 of 4 Appendix A Detailed System Check Results 1. System Performance Check System Performance Check 5250 MHz Limbs System Performance Check 5600 MHz Limbs Sy...

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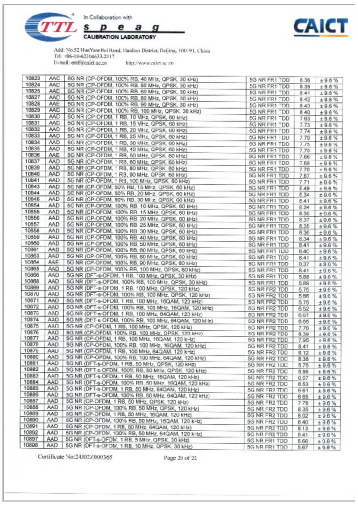
In Collaboration with

CALIBRATION LABORATORY

CAICT

[pdf]

evan mi Appendix C Calibration certificate p3 Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

Frequency MHz 5250 5600 5750 Dipole 5GHzV2 SN 1165 Head Liquid Date of Measurement Return Loss dB 2022/11/1 -26.3 2024/10/30 -26.0 2022/11/1 -28.9 2024/10/30 -29.4 2022/11/1 -26.5 2024/10/30 -26.9 / 1.15 / 1.73 / 1.51 Impedance 49 49.7 53.5 53.7 54.6 54.9 / 0.7 / 0.2...

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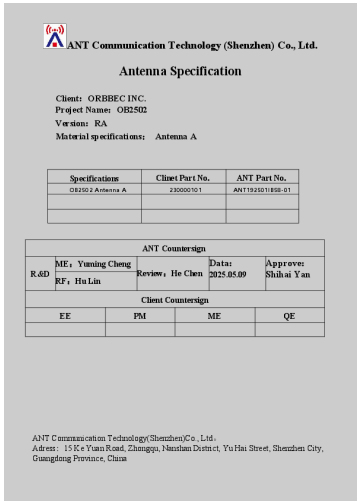

ANT Communication Technology (Shenzhen) Co., Ltd.

Antenna Specification

Client: ORBBEC INC.
Project Name: OB2502
Version: RA
Material specifications: Antenna A

Specifications	Clinet Part No.	ANT Part No.
OB2502 Antenna A	230000101	ANT192501IB58-01

ANT Countersign				
R&D	ME：Yuming Cheng RF：Hu Lin	Review：He Chen	Data: 2025.05.09	Approve: Shihai Yan
Client Countersign				
EE	PM	ME	QE	

ANT Communication Technology(Shenzhen)Co., Ltd.
Adress: 15 Ke Yuan Road, Zhongqu, Nanshan District, Yu Hai Street, Shenzhen City, Guangdong Province, China

[pdf] Specifications

liiang Antenna specification A Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

ANT Communication Technology Shenzhen Co., Ltd. Antenna Specification ClientORBBEC INC. Project NameOB2502 VersionRA Material specifications Antenna A Specifications OB2502 Antenna A Clinet Part No. 230000101 ANT Part No. ANT192501IB58-01 ANT Countersign MEYuming Cheng Data R D RFHu Lin Re...

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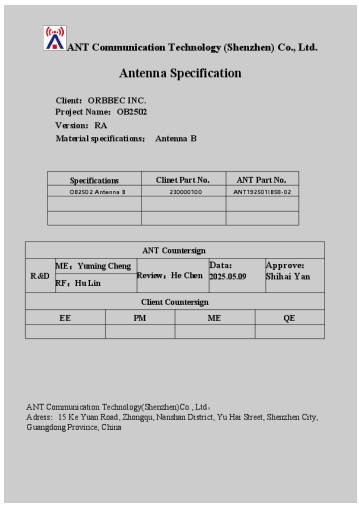

ANT Communication Technology (Shenzhen) Co., Ltd.

Antenna Specification

Client: ORBBEC INC.
Project Name: OB2502
Version: RA
Material specifications: Antenna B

Specifications	Clinet Part No.	ANT Part No.
OB2502 Antenna B	230000100	ANT192501IB58-02

ANT Countersign				
R&D	ME：Yuming Cheng RF：Hu Lin	Review：He Chen	Data: 2025.05.09	Approve: Shihai Yan
Client Countersign				
EE	PM	ME	QE	

ANT Communication Technology(Shenzhen)Co., Ltd.
Adress: 15 Ke Yuan Road, Zhongqu, Nanshan District, Yu Hai Street, Shenzhen City, Guangdong Province, China

[pdf] Specifications

liiang Antenna specification B Shenzhen Creality 3D Technology Co Ltd CRS10COL Otter Lite 2AXH6 2AXH6CRS10COL crs10col

ANT Communication Technology Shenzhen Co., Ltd. Antenna Specification ClientORBBEC INC. Project NameOB2502 VersionRA Material specifications Antenna B Specifications OB2502 Antenna B Clinet Part No. 230000100 ANT Part No. ANT192501IB58-02 ANT Countersign MEYuming Cheng Data R D RFHu Lin Re...

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