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› Champtek SD120 CCD Barcode Reader User Manual

## champtek SD120

# Champtek SD120 CCD Barcode Reader User Manual

Model: SD120 | Brand: Champtek

## 1. INTRODUCTION

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Thank you for purchasing the Champtek SD120 CCD Barcode Reader. This lightweight and stylish barcode reader supports both Type-C and USB Type-A connections, offering versatility for various applications. It is designed for efficient and accurate scanning of 1D barcodes, including those displayed on LCD screens.

The SD120 is a middle-range CCD barcode reader, capable of reading barcodes from a slight distance, unlike traditional touch-type scanners. The optimal reading distance ranges from 0mm to approximately 6cm. It is compatible with major 1D barcodes and supports single-layer GS1 codes. Please note that reversed or color two-layer GS1 codes may not be readable with this model. For such requirements, we recommend the Barcode Reader SD380.

This manual provides detailed instructions for setting up, operating, and maintaining your SD120 barcode reader.

## 2. PACKAGE CONTENTS

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Please check the box for the following items:

- Champtek SD120 Barcode Reader Unit
- USB Cable (1.5m)
- Type-C Cable (1.5m)
- Japanese Quick Manual

If any items are missing or damaged, please contact your vendor or customer support.



付属品

- 本体
- USB ケーブル 1.5m
- TypeC ケーブル 1.5m
- 日本語クイックマニュアル

Image: Champtek SD120 with Type-C cable. This image shows the barcode reader connected via a Type-C cable, illustrating one of the included connection options.



付属品

- 本体
- USB ケーブル 1.5m
- 日本語クイックマニュアル

Image: Champtek SD120 with USB cable. This image displays the barcode reader connected via a standard USB cable, highlighting another included connection option.

## 3. SETUP

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### 3.1. Connecting the Barcode Reader

The SD120 barcode reader is a plug-and-play device. No special driver installation is required for most operating systems.

1. Identify the appropriate USB port on your computer or tablet (USB Type-A or Type-C).
2. Connect the corresponding cable (USB Type-A or Type-C) to the barcode reader.
3. Plug the other end of the cable into the USB port on your computer or tablet.
4. The device will be automatically recognized by your system. A confirmation sound or light indicator may signal successful connection.



Image: USB and Type-C connectors. This image illustrates the different types of USB connectors available for connecting the barcode reader to your device.

## 4. OPERATING THE BARCODE READER

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### 4.1. Basic Scanning Procedure

To scan a barcode:

1. Ensure the barcode reader is properly connected to your computer or tablet.
2. Open a text editor, spreadsheet, or any application where you want the scanned data to appear.
3. Point the scanner at the barcode, ensuring the red scanning line covers the entire barcode.
4. Press the trigger button on the scanner. A successful scan will be indicated by a beep and/or a green light.
5. The scanned data will appear in your active application.

### 4.2. Scanning from LCD Screens

The SD120 is capable of reading barcodes displayed on digital screens, such as smartphones and tablets.

- Ensure the screen brightness is sufficient for optimal reading.
- Hold the scanner at a slight distance (0-6cm) from the screen, aligning the red scanning line with the barcode.
- Press the trigger button to scan.



Image: Scanning a barcode on a smartphone screen. This image demonstrates the SD120 barcode reader successfully scanning a barcode displayed on a smartphone.

### 4.3. General Scanning Demonstration

Video: General Barcode Scanning Demonstration. This video, though featuring a different model (BUSICOM BC-BR1000U), illustrates the general process of scanning barcodes with a wired scanner connected to a computer. It shows scanning various types of barcodes, including those on product packaging and test charts.

## 5. BARCODE COMPATIBILITY

The Champtek SD120 supports a wide range of 1D barcodes. Key compatibility details include:

- **Supported:** Major 1D barcodes, single-layer GS1 codes.
- **Limitations:** Reversed or color two-layer GS1 codes may not be readable.

For applications requiring the scanning of two-layer GS1 codes, we recommend considering the Champtek SD380 barcode reader.

### 「SD120」のGS1コード対応表

GS1 DataBarリミテッド



GS1 DataBarリミテッド

合成シンボルCC-A



読むことができる



反転・色付きコードが読めない場合がある



読むことができない

※ 医薬品を処方される事業者様（薬局、病院など）  
は上位機種の「SD380」をお薦めします。

Image: GS1 Code Compatibility Table for SD120. This table visually indicates which types of GS1 codes are readable (circle), potentially unreadable (triangle for reversed/color two-layer), or unreadable (cross) by the SD120 model.

## 6. MAINTENANCE

To ensure optimal performance and longevity of your Champtek SD120 barcode reader, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the scanner window with a soft, lint-free cloth. If necessary, dampen the cloth slightly with water or a mild, non-abrasive cleaner. Avoid using harsh chemicals or abrasive materials that could scratch the window.
- **Storage:** Store the scanner in a clean, dry environment away from direct sunlight, extreme temperatures, and excessive dust.
- **Handling:** Handle the scanner with care. Avoid dropping it or subjecting it to strong impacts. The device has a drop resistance of up to 1.2 meters, but repeated impacts can cause damage.



Image: Drop resistance of 1.2m. This image illustrates the durability of the SD120 barcode reader, showing its ability to withstand drops from up to 1.2 meters.

## 7. TROUBLESHOOTING

If you encounter issues with your SD120 barcode reader, please refer to the following common problems and solutions:

| Problem                                  | Possible Cause                                                                                   | Solution                                                                                                                                       |
|------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Scanner does not read barcodes.          | Incorrect aiming, barcode damaged/unreadable, scanner not powered, incorrect symbology settings. | Ensure the red line covers the entire barcode. Check barcode quality. Verify USB connection. Refer to the quick manual for symbology settings. |
| No data transmitted to the computer.     | Loose cable connection, incorrect input focus on computer, scanner not recognized.               | Reconnect the USB/Type-C cable. Ensure the cursor is in the desired input field on your computer. Restart the computer if necessary.           |
| Scanned data is incorrect or incomplete. | Partial scan, incorrect data format settings.                                                    | Ensure the entire barcode is scanned. Check the quick manual for data format or prefix/suffix settings.                                        |
| Cannot read two-layer GS1 codes.         | SD120 model limitation.                                                                          | The SD120 supports only single-layer GS1 codes. For two-layer GS1 codes, consider the SD380 model.                                             |

## 8. SPECIFICATIONS

| Feature | Detail |
|---------|--------|
|---------|--------|

| Feature                 | Detail                              |
|-------------------------|-------------------------------------|
| Brand                   | Champtek                            |
| Model                   | SD120                               |
| Connectivity Technology | USB Cable (Type-C / Type-A)         |
| Scan Rate               | 120 fps                             |
| Barcode Type Support    | 1D Barcodes, Single-layer GS1 Codes |
| LCD Reading             | Supported                           |
| Reading Distance        | 0mm to approx. 6cm                  |
| Drop Resistance         | 1.2 meters                          |
| Item Weight             | 320 g                               |
| Package Dimensions      | 24.5 x 10 x 7.5 cm                  |

## 9. WARRANTY AND SUPPORT

The Champtek SD120 CCD Barcode Reader comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation of your device.

For any inquiries regarding product settings, troubleshooting, or warranty claims, please refer to the included Japanese Quick Manual or contact our customer support. We are committed to providing assistance for settings changes and other support needs. An optional dedicated holder (Model: SDH001) is available separately to enhance usability. Please search for 'Holder SDH001' to find more information.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**