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SCANTECH ID DDG175-01

SCANTECH ID DDG175-01 Barcode Scanner User Manual

Model: DDG175-01

1. INTRODUCTION

The SCANTECH ID DDG175-01 is a robust 2D barcode scanner designed for various applications including logistics, inventory management, and warehousing. This device is capable of reading a wide range of barcode types, including 1D, 2D, GS1 Databar, and OCR-B characters, even when displayed on LCD screens. Its durable construction ensures reliable performance in demanding environments.

2. PRODUCT OVERVIEW

The DDG175-01 scanner features an ergonomic design for comfortable handling and a high-rebound trigger button for efficient operation. Key features include:

- **Versatile Scanning:** Supports 1D, 2D, GS1 Databar, and OCR-B character reading.
- **Screen Reading Capability:** Can read barcodes displayed on labels and digital screens.
- **Durable Construction:** IP52 dust and splash protection, with 1.2m drop resistance.
- **Vibration Feedback:** Provides tactile confirmation for successful scans.
- **Connectivity:** USB interface for easy integration.



Image 1: Side view of the SCANTECH ID DDG175-01 Barcode Scanner, showcasing its ergonomic design and scanning window.



Image 2: Two DDG175-01 scanners, illustrating different orientations and the overall form factor.

3. PACKAGE CONTENTS

Please verify that all items are present in the package:

- SCANTECH ID DDG175-01 Barcode Scanner Unit
- USB Cable
- Quick Guide (refer to this manual for detailed instructions)

4. SETUP

Follow these steps to set up your barcode scanner:

1. Connect the provided USB cable to the scanner's interface port.
2. Plug the other end of the USB cable into an available USB port on your computer or host device.
3. The scanner is typically plug-and-play and should be recognized by your operating system automatically without requiring additional driver installation.
4. Once connected, the scanner will power on and be ready for use.

5. OPERATING INSTRUCTIONS

To operate the DDG175-01 barcode scanner:

1. Hold the scanner comfortably in your hand, ensuring the scanning window is facing the barcode.
2. Point the scanner's aimer at the center of the barcode you wish to read.
3. Press and hold the trigger button. The scanner will emit a light beam to target the barcode.
4. Upon a successful read, the scanner will typically provide an audible beep and/or vibrate (if the vibration function is enabled). The scanned data will be transmitted to your connected device as keyboard input.
5. Release the trigger button after a successful scan.

Tips for Optimal Scanning:

- Ensure the barcode is clean and free from obstructions or damage.
- Adjust the distance between the scanner and the barcode. The optimal reading distance can vary depending on the barcode size and type.

- For barcodes on reflective surfaces or screens, try adjusting the scanning angle to minimize glare.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your scanner:

- **Cleaning the Casing:** Use a soft, dry, lint-free cloth to wipe the exterior of the scanner. For stubborn dirt, a slightly damp cloth with a mild, non-abrasive cleaner can be used, ensuring no liquid enters the device.
- **Cleaning the Scanning Window:** Gently wipe the scanning window with a soft, lint-free cloth. Avoid using abrasive materials or harsh chemicals that could scratch the surface.
- **Storage:** Store the scanner in a clean, dry environment within the recommended storage temperature range of -20°C to 70°C.
- **Handling:** While the scanner is designed to be rugged with 1.2m drop resistance, avoid unnecessary drops or impacts to prevent potential damage.

7. TROUBLESHOOTING

If you encounter issues with your DDG175-01 scanner, refer to the following common problems and solutions:

- **Scanner not reading barcodes:**
 - Ensure the barcode is clean, undamaged, and clearly printed.
 - Verify that the scanner's aimer is centered on the barcode.
 - Adjust the distance between the scanner and the barcode.
 - Check if the barcode type is supported by the scanner (refer to Specifications).
- **No data transmitted to the computer:**
 - Confirm the USB cable is securely connected to both the scanner and the computer.
 - Try connecting the scanner to a different USB port on your computer.
 - Ensure your computer's operating system has recognized the scanner.
- **No beep or vibration after scanning:**
 - This may indicate an unsuccessful scan. Re-attempt scanning, ensuring proper aiming and distance.
 - If the scanner has configurable settings for feedback, ensure the beep and vibration functions are enabled.

For further assistance, please contact your vendor or SCANTECH ID support.

8. SPECIFICATIONS

Detailed technical specifications for the SCANTECH ID DDG175-01 Barcode Scanner:

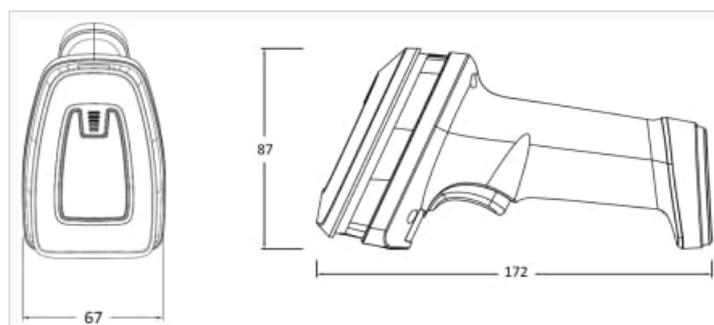


Image 3: Dimensions of the DDG175-01 scanner (Width: 67mm, Height: 87mm, Length: 172mm).

<p>●本体仕様</p> <p>重量 220g 材質 ABS 樹脂 ケーブル長 1.8m 外形寸法 67(W) x 87(H) x 172(L)mm</p> <p>●電気仕様</p> <p>インターフェイス RS232 USB</p> <p>供給電圧</p> <p>出力電圧 ±9V +5V Typ. 低出力電圧 - 0.7V Max 消費電流 待機時 <130mA <130mA Typ. 動作時 <280mA <280mA Typ.</p> <p>●性能仕様</p> <p>光源 白色 LED、緑 (エイマー) センサー 1280(H) x 800(V)ピクセル 視野角(FOV) 水平 45° 垂直 36° スキャンレート 60fps (フル解像度) 読取距離 450mm (20mil/0.5mm PCS 90% QR) PCS 20% (プリントコントラスト比) 解像度 1D バーコード : 3mil/0.076mm 2D バーコード : 6.67mil/0.2mm 読取角度 ピッチ 5° ~ 60° (±5°) スキュー 5° ~ 60° (±5°) 外乱光 100,000 Lux (Max) 防塵・防滴 IP52</p>	<p>●環境仕様</p> <p>動作温度 0°C ~ 50°C 保管温度 -20°C ~ 70°C 湿度 20% ~ 95% (結露なきこと)</p> <p>●信頼性仕様</p> <p>寿命 トリガースイッチ 1,000,000 回 (1Kg±50g サイクル) MTBF 50,000 時間</p> <p>サーマルショック</p> <p>高温 60°C 24 サイクル 低温 -20°C 24 サイクル (30 分/サイクル)</p> <p>ケーブルバンド 25,000 回以上 (30 回/分 200g/90°) 落下衝撃 1.2m コンクリート面落下 静電気放電 8KV (接触放電) 16KV (空中放電)</p> <p>●読取り可能バーコード</p> <p>1D バーコード UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, ISSN, UCC/EAN-128 , Code 39, Code 39 Full ASCII, Code 128, Interleaved 25, Industrial 25, Matrix 25, Codabar/NW7, Code 93, Code11, China Post, MSI, Telepen, GS1 Databar Omni-directional, GS1 Databar Limited, GS1 Databar Expanded</p> <p>2D バーコード Aztec, Data Matrix, MaxiCode, QRCode, PDF417, Micro PDF417, HANXIN, MicroQR Code, Dotcode, Grid Matrix</p> <p>OCR-B キャラクター</p>
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Image 4: Comprehensive table detailing electrical, performance, environmental, and reliability specifications.

Feature	Specification
Brand Name	SCANTECH ID
Model	DDG175-01
Connectivity	USB Cable
Weight	220g
Material	ABS Resin
Cable Length	1.8m
External Dimensions (W x H x L)	67mm x 87mm x 172mm
Interface	USB
Power Supply	Typ. +5V
Standby Current	<130mA
Operating Current	<280mA
Light Source	White LED, Red (Aimer)
Sensor	1280(H) x 800(V) pixels
Field of View (FOV)	Horizontal 45°, Vertical 36°

Scan Rate	60fps
Reading Distance (20mil/0.5mm PCS 90% QR)	450mm
Print Contrast Ratio (PCS)	20%
Resolution (1D Barcode)	3mil/0.076mm
Resolution (2D Barcode)	6.67mil/0.2mm
Reading Angle (Pitch)	5° ~ 60° (±5°)
Reading Angle (Skew)	5° ~ 60° (±5°)
Ambient Light	100,000 Lux (Max)
Dust/Splash Protection	IP52
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Humidity	20% ~ 95% (non-condensing)
Trigger Switch Life	1,000,000 operations
MTBF (Mean Time Between Failures)	50,000 hours
Drop Resistance	1.2m onto concrete
Electrostatic Discharge (ESD)	8KV (contact), 16KV (air)
Supported 1D Barcodes	UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, ISSN, UCC/EAN-128, Code 39, Code 32, Code 128, Interleaved 25, Industrial 25, Matrix 25, Codabar/NW7, Code 93, Code 11, China Post, MSI, Telepen, GS1 Databar Omnidirectional, GS1 Databar Limited, GS1 Databar Expanded
Supported 2D Barcodes	Aztec, Data Matrix, Maxicode, QRCode, PDF417, Micro PDF417, HANXIN, MicroQR Code, Dotcode, Grid Matrix

Supported Characters	OCR-B Characters
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9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official SCANTECH ID website. Keep your purchase receipt as proof of purchase for any warranty claims.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact your authorized SCANTECH ID dealer or the manufacturer's customer support directly.