2D Barcode
Hand Scanner



Digital Product Passport:

Scan the QR-Code for manuals, declaration of conformity and other documents

https://dpp.digitus.com/4016032473657

Quick Installation Guide

DA-81003 Rev.B

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Introduction

The Battery-Operated 2D Barcode Scanner from DIGITUS® operates reliably and economically. Its ergonomic design makes it easy to handle, an excellent choice for a wide variety of working environments such as retail, logistics and commerce of all kinds. With 200 scans per minute, this bidirectional scanner delivers ideal results. The hand scanner is suitable for one- and two-dimensional high-resolution codes such as barcodes or QR codes. The scanner is also able to read QR codes from displays, ideal for scanning QR codes for mobile payment. Each scanning process is confirmed with visual and auditory signals, and the scanner supports the most popular code types. Wide scan angles ensure even faster barcode detection. The scanner is dust-protected and water-resistant, impacts are absorbed by the silicon cover to protect against damage.

Product Features

- Precise scanning of 1D & 2D barcodes (barcodes / QR codes)
- Supports wireless connection via Bluetooth or cabled via USB
- Anti-interference: External light sources have no influence on the scan
- Reads barcodes on screens – ideal for payment via smartphone/QR code
- Automatic mode enables highly efficient operation
- 200 scans per minute, bidirectional for reliable detection
- High resolution: Scans high-resolution barcodes
- Dust-protected and water-resistant (IP54)
- Silicon cover absorbs impacts and protects against damage
- Ideal for retail, logistics, and commerce of all kinds

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Package Content

- 1 x 2D Barcode Hand Scanner, Battery-Operated, Bluetooth & QR-Code Compatible
- 1 x Bluetooth receiver (USB A)
- 1 x Holder
- 1x Cable, 2m (RJ45 - USB-A)
- 1 x QIG



Safety Precautions

- DO NOT stare directly into the LED light.
  Do not look directly or with optical instruments into the light.
- DO NOT expose the scanner to any flammable sources.
- Under no circumstances, internal components are self-serviceable.
- For AC power adapter, a socket outlet should be installed near the equipment and shall be easily accessible. Make sure there is stable power supply for the scanner or it's peripherals to operate properly.

Care & Maintenance

- Use a clean cloth to wipe dust off the scanning window and the body of the scanner. DO NOT use/mix any bleach or cleaner.
- Keep the scanner away from any magnets and magnetic fields to prevent the laser engine from malfunctioning.
- If finding the scanner malfunctioning, write down the specific scenario and consult the local sales representative.

Product Diagram



1 Scan window
2 Anti-drop silicone
3 RJ45 connection
4 Indicator light

Specification

DIGITUS® Model	DA-81003
Support OS:	Windows 7. 8 or above, Android, IOS, Linux
Interface Support:	USB (wired) / Bluetooth (wireless)
Cable length:	2 meters
Communication distance:	8-10m indoor 30m in the open area
Bulit-in Memory:	2MB
Power supply:	Built-in rechargeable 3.7V/2000mA.H lithium battery
Electrical parameter:	DC 3.3-5V, 120mA, idle 0.8μA
Scanning type:	Area imaging
Sensor:	CMOS array sensor

CPU:	ARM 32-bit Cortex
Light source:	LED (CMOS)
Trigger Mode:	Handheld / Continuous / Auto-Induction
Auto -Induction interval time:	1 second
Trigger/ Auto-Induction switching time:	for 2D scanner, needs to scan the setting barcode on user manual to transfer from auto induction mode to trigger mode.
Indication:	Buzzer & Indicator lamp
Printing Contract:	≥25%
Decoding speed:	200 scans/sec
Resolution:	1D: ≥5mil 2D: ≥10mil
Bit error rate:	1/5millon ,1/20million
Scanning width:	10 cm
Depth of field:	EAN-13: 4.0~20.0cm (13mil) Code128: 4.5 ~ 25.0cm (15mil) QR Code: 4.0 ~ 18cm (15mil)
Scanning angle:	roll angel 360°, inclination ± 60°, deflection ± 60°
Anti inference:	Direct indoor light source
Decoding capability:	**1D:** GS1 Data Bar, GS1-128, ISSN, MSI, Industrial 2 of 5, JAN-8, J AN-13, EAN-128, Code 32, IATA, ITF, ITF-14, Matrix 2 of 5, ITF-6, Rss limited, Rss Expanded, Deutsche 12, Industrial 25, Code 128, Codabar, UPC, CODA BAR, Code 39, Code 93, BIGCODE, EAN 8, EAN 13 **2D:** PDF417, QR code, Datamatrix.

Housing Material:	ABS+PC
Working times of button:	500,000 times
IP grade:	IP54
Working Temperature:	0°F-120°F/-20°C- 50°C
Storage Temperature:	-40°F-160°F/-40°C- 70°C
Relative Humidity:	5%-95% (Non-condensing)
Weight:	150 g
Dimensions:	16.5 x 6.3 x 8.7cm

Applicable bar code



Manual Mode



Continuous mode



Auto sense mode



Wireless Restore Factory Settings

Function Description

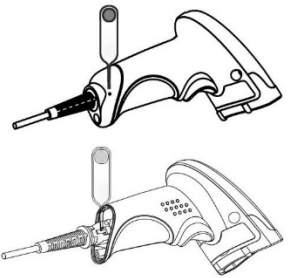
1. **Bluetooth bar code scanner match**

   Bluetooth BLE HID pairing: Scan the "BLE HID" pairing code, the LED flashes quickly, and the light is always on after the pairing is successful.

   Bluetooth BLE pass-through pairing: Scan the "BLE SPP" pairing code, the LED flashes slowly, and the light is always on after the pairing is successful.

2. **Charging**

   Connect the scanner to USB cable to charge:
   When charging the red light on
   Charging complete green light on.
   Use the included pin or paper clip and insert it into the small hole on the side of the handle. This will release the lock on the cable, and it can be easily removed.



3. **Indicator light**

   Red light on: charging mode

   Flashing green: Bluetooth pairing

   Green light is always on pairing succeeded.

4. **Prompt instructions**

   A short beep: The data transmission was successful.

Three short beeps: Pairing failed; data transmission failed.

Three long beeps: Low battery alarm.

Long beep for two seconds: Memory is full.

5. Others

1) BLE Bluetooth working frequency: 2402Mhz-->2478Mhz.
2) Bluetooth BLE HID pairing: Scan the Bluetooth HID pairing code. When the scanner in other modes, the scanner will be turned off and the next time it is powered on to enter pairing.
3) Bluetooth BLE SPP pairing: Scan the Bluetooth SPP pairing code. When the scanner is in other modes, the scanner will be turned off and the next time it is powered on to enter pairing.
4) The working modes are: Normal, inventory, and no loss of three working modes.

Bluetooth Setting Bar code

Bluetooth Match Setting



BLE HID mode (default)



BLE SPP mode

Language



English



German


French


Italian


Spanish


Portuguese


Finnish


French(Swiss)


German(Swiss)


Italian(Swiss)

Sleep Time Setting


Into sleep time setting


20secs


1mins


5mins


Not sleep


Normal working mode


Not lost mode


Inventory mode


Upload data


Total data


Zero clearing

Data Upload Speed


High-speed


Medium-speed


Low-speed

Other Setting


Shutdown


Wireless factory default

Trouble Shooting

How to pair the Bluetooth of scanner to the device:

1. Press the trigger of the scanner, the light is flashing.
2. Turn on the Bluetooth of laptop, search the Bluetooth device “BLE SCAN”, select it and pair with scanner, once pair successful, there is two sound "beep", the light on (not flashing)

   PS: user could pair the Bluetooth either by press the scanner trigger or scan the "Match" code on user manual

How to transfer between wireless to wired mode:

1. Plug the USB cable with the scanner to the device, the scanner works on wired mode.
2. Unplug the USB cable with the scanner to the device, the scanner works on wireless mode. (If the scanner has paired with the device before, no need to pair it again upon unplug the USB cable, the Bluetooth will be connected automatically.)

How to set back factory default are as following:

1. Scan the “Wireless Restore Factory Settings” on page 6.

Note:
Try to set back to factory defaults when the barcode reading, or wireless function is abnormal

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Wireless Restore Factory Settings

Technical Description

- Frequency Range: 2400-2483.5MHz
- Transmit Power: < 4 dBm
- Hardware Version: 20201114
- Software Version: 2024/03/01

The complete EU Declaration of Conformity can be found at the following link:
https://dpp.digitus.com/4016032473657