



1D & 2D



Bluetooth
4.0



Megapixel



Laser
aimer



CMOS



IP42



1.2M
drop



EasySet



Warranty
3 Years



**BS80 Piranha
II 2D**
Handheld Scanners

Features

Superior Reading Performance

The BS80 Piranha II is offered in 2 versions, containing a 1D or a 1D+2D barcode scanning engine. Both of these engines read virtually any barcode from paper or screen. The 2D device has been equipped with a laser aimer with a red cross to make barcode reading easier and faster.

Easy Bluetooth Pairing

With Bluetooth 4.0 wireless technology, the BS80 Piranha II enables effortless pairing to any Android, iOS, or Windows device, making it simple and convenient for users to transmit data.

Seamless Barcode Capture and Storage

Offering versatile barcode scanning capabilities, the BS80 Piranha II enables fast real-time scanning with seamless data transfer to the host via Bluetooth. However, users can also take advantage of the 1MB memory when operating in batch collection mode, which can store thousands of barcodes offline for subsequent download via Bluetooth or cable.

Edits On the Go

The BS80 Piranha II boasts not only a reliable scan button but also two extra buttons for convenient data editing. For data collection mode, the Delete button allows users to quickly rectify scanning errors by deleting the last scanned barcode. Meanwhile, the Function button serves as a virtual keyboard recall feature, enabling manual data input on a wide range of host devices, including iOS products. This makes the BS80 Piranha II an ideal companion for all your data collection needs.

Versatile Charging & Communication

The BS80 Piranha II features a fast and reliable USB-C port that can be used both for charging and establishing a connection to a host to download data or access the EasySet configuration software. In addition, the device also supports the use of pogo pins to charge via the cradle.

Multi-Device Charging

The BS80 Piranha II offers an optional two-bay charging solution that can be easily linked together to create a multi-charging station. With optimized charging capabilities, users can daisy-chain up to five cradles, allowing them to charge up to ten scanners simultaneously using a single power supply.

Suggested industries



Entertainment



Healthcare



Hospitality



Retail



BS80 Piranha II 2D Technical specifications

Data Capture

1D	All major 1D symbologies, including Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, ISSN, Interleaved 2 of 5, ISBN, Code 93, UCC/EAN-128, GS1 Databar, etc.
2D	All major 2D symbologies, including PDF417, QR Code, Data Matrix, etc.
Image Sensor	1280x800 CMOS
Resolution	≥5mil
Depth of Field EAN 13 (13mil)	50-540mm
Depth of Field Code 39 (5mil)	65-260mm
Depth of Field Code 128 (10mil)	38-411mm
Depth of Field DataMatrix (10mil)	40-250mm
Depth of Field QR (15mil)	20-320mm

Performance

Minimal Print Contrast	20%
Scan Angle	Roll 360°; Pitch ±60°; Skew ±60°

Physical

Dimensions (mm)	88.0(L) × 46.0(W) × 24.5(H) mm
Weight	63g
Interfaces	Type-C USB, Bluetooth HID/SPP/BLE profiles
Battery Type	3.7V 900mAh rechargeable Li-ion battery
Expected Battery Life	5 hours of continuous operation (scan once per 6s)
Notifications	Beep, LED and vibration
Current Operating/Standby	280mA (Bluetooth is on)/11 mA

Environmental

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charge Temperature	0°C to 45°C (32°F to 113°F)
Humidity	5%~95% (non-condensing)
Electro Static Discharge (ESD)	±4 KV (direct discharge); ±12 KV (air discharge)
Drop	1.2m
IP Rating	IP42

Wireless

Wireless Standards	2.4 - 2.5GHz ISM band, compatible with Bluetooth 4.0/3.0/2.1+EDR
Bluetooth Transmission Range	50m (open space)

Software

Configuration Tools	EasySet
---------------------	---------

Certifications

Hardware	CE RED, CE UK, FCC, TELEC, IEC 62471, RoHS, IEC60825
----------	--

Newland EMEA HQ

+31 (0) 345 87 00 33

info@newland-id.com

newland-id.com

Feel free to contact us or a partner near you

visit newland-id.com/partners

Specifications are subject to change without notice

© Newland EMEA 2023, all rights reserved

BS80 Piranha II 2D Technical specifications

Warranty	
Standard	3 years