



2D/1D Imager  
Barcode Scanner



# DURASCAN® D820

## Linear Barcode Plus QR Code Scanner

The DuraScan D820 is a linear barcode & QR Code 1D/2D barcode reader with Bluetooth wireless technology. It reads the most popular 2D/1D barcodes and is perfect for retail point of sale, inventory management, sales order entry, field service, and other mobile business applications. Users can scan barcodes printed on labels or displayed on screens. Designed for mobility, durability and lasting up to two shifts. The external rubberized material increases drop protection. Easy to use and attachable to a mobile device, enabling one-handed operation, it slips neatly into your pocket and fits comfortably in the palm of your hand.



Bluetooth®

Certified by Apple® for iOS devices (iPad®, iPhone®, iPod Touch® devices) and compatible with Android and Microsoft Windows®

## FEATURES

- **Compatible - with Apple® iOS devices (iPad®, iPhone®, iPod Touch®) and Android, Windows®, Mac and Linux.**
- **Certified by Apple® for iOS devices** – Guaranteed Compatibility - With Capture SDK integrated in over 700+ applications, Socket Mobile scanners are one of the most natively integrated scanners available today.
- **Bluetooth Wireless Technology** - Connects easily to a wide range of Bluetooth enabled smartphones, tablets, notebooks and desktop computers.
- **Scanning** – 2D & 1D omni-directional barcode scanning with visible and safe aimer.
- **Decoding Ability** - Reads damaged and poorly printed barcodes.
- **Size & Weight** – Measuring a little over ½ inch (16.76mm) thick and weighing 2.52 ounces (71.5g).
- **User Feedback** - With audible tones, hand pulsation and Bluetooth indicator.
- **Long-Lasting Replaceable Battery** - Power to last a full workday.
- **One-Handed Operation** – Attachable Klip included.
- **Durable Casing** – Rubber material for increased protection from drops.
- **Native App Support** – Socket Mobile's CaptureSDK enables easy native app integration in your applications to improve business productivity.
- **Accessories** - Klip, Charging Dock, Adapter and Multi-Charger (sold separately or in a bundle).
- **Designed and Assembled in the USA.**
- **Developer Support Available** - The Socket Mobile development team is available to help integrate CaptureSDK into your app.
- **1-Year Warranty.**



## PACKAGE INCLUDES

- (1) DuraScan D820, Universal Barcode Scanner
- (1) Rechargeable battery (pre-installed)
- (1) Universal Klip



**\*Note: Charger NOT included - select the charging option that works best for you.**

**Socket Mobile  
Companion App  
Download for easy setup!**

## OPTIONAL ACCESSORIES

DuraScan® D820, Linear Barcode Scanner  
and Charging Dock\*\*



DuraScan® D820, Linear Barcode Scanner  
and Charging Dock\*\*



Holster



DuraCase Charging Adapter\*



DuraCase Charging Dock\*



6 Bay Charger\*

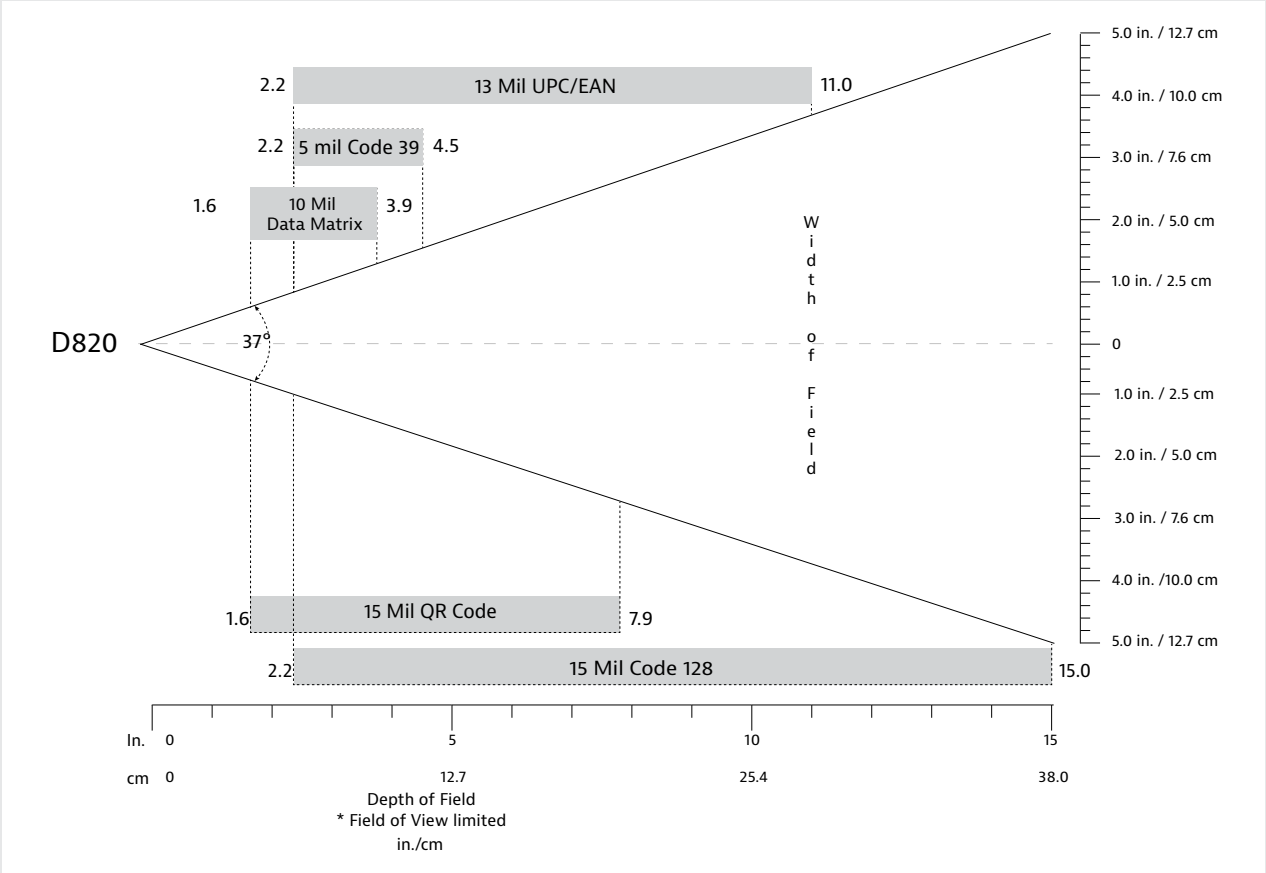


**\*\*Charging Bundles available**

## SCANNER TYPE

Technology:	2D/1D Barcode Imager
Light Source:	LED
Aimer:	Red

Default Barcode Symbologies:	<b>1D Symbologies:</b> Codabar, Code 39, Code 93, Code 128, EAN-13, EAN-8, Interleaved 2 of 5, ISBT 128, UPC A, UPC E1
	<b>2D Symbologies:</b> Data Matrix, Micro QR Code, PDF417, QR Code
Supported Barcode Symbologies:	<b>1D Symbologies:</b> Chinese 2 of 5, Codabar, Code 11, Code 16KCode 39, Code 93, Code 128, Discrete 2 of 5, EAN-13, EAN-8, GS1 Databar, Industrial 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI Plessey, UPC A, UPC E1, Standard 2 of 5, UK Plessey
	<b>2D Symbologies:</b> Aztec, Data Matrix, Han Xin, Micro PDF417, Micro QR Code, PDF417, QR Code
Scan Angle:	44.5° (Horizontal) - 33.5° (Vertical)
Sensor Resolution:	1280 horizontal x 960 vertical pixels
Print Contrast:	Down to 25%
Reading Distance:	4.0 to 38.0 cm (1.6 to 15 in.) Depends on barcode size, symbology, label media



Decode Ranges	<b>Near</b>	<b>Far</b>
5 mil Code 39	2.2 in/5.5 cm	4.5 in/11.5 cm
10 mil DataMatrix	1.6 in/4.0 cm	3.9 inc/10.0 cm
13 Mil UPC/EAN	2.2 in/5.5 cm	11.0 in/28.0 cm
15 Mil Code 128	2.2 in/5.5 cm	15.0 in/38.0 cm
15 mil QR Code	1.6 in/4.0 cm	7.9 inc/20.0 cm

Type of Battery:	Lithium Ion Polymer- rechargeable battery
Charge Time:	8 Hours
Battery Life: Per Full Charge:	Standby time: 25 hours Active Scan Time: 34,000 scans within 3 hours (based on 2 scans every 1 second) 9,000 scans within 10 hours (based on 1 scan every 4 seconds)
Note:	Battery life varies depending on ambient temperature, ambient light and age of battery. <i>For more battery information <a href="#">click here</a>.</i>
Number of Batteries Used:	1
Weight of battery:	12.5g
Percentage Lithium:	36%
Battery mAh:	700 mAh
Number of cells per battery:	1
Watt Hours per battery:	2.59
Type of Cell ( ex. AA):	Proprietary
Chemical Composition (ex. Alkaline):	Lithium - polymer
Lithium Content:	14g
Battery Voltage:	3.7v
Hazmat UN Number:	UN3481, P.I. 967
ROHS Compliance Indicator:	Yes, Included with Scanner
Battery only - Country of Origin:	China
Commodity Code:	8507.60.0000

## BLUETOOTH (WIRELESS CONNECTION)

Bluetooth Radio:	Class 2 Bluetooth, version 2.1 + EDR (Enhanced Data Rates) with 56-bit data encryption
Bluetooth Range:	Up to 10 m (33 ft.) depending on environment, range limit is usually due to the Host Device (phone, tablet or notebook)
Bluetooth Profiles:	Basic Mode - Human Interface Device (HID), Application Mode - Serial Port Profile (SPP) and iOS App Mode*. Some Operating Systems or smartphone/tablet models may support only one profile. *By default, the scanner is set to iOS App Mode.

Apple, Android and Windows PC with Bluetooth Classic HID are compatible with all Socket Mobile scanners.

\*Chromebook and Linux supports HID mode only.

## USER ENVIRONMENT

Ambient Light:	From 0 to 100,000 lux From pitch black to direct sun light
Operating Temperature:	+32 to +122°F (0 to +50°C)
Storage Temperature:	-22 to +158°F (-30 to +70°C)
Relative Humidity:	5% to 95% (non condensing)
Sealing:	IP40
Drop Specifications:	Multiple 6.5 ft. (2 m) drops to concrete



Scanner:	Standard one year limited warranty
Accessories:	90 days
Extended Warranty: (sold separately)	<a href="http://www.socketmobile.com/socketcare">www.socketmobile.com/socketcare</a>



## COMMON USES

Retail	Hospitality	Point of Sale
Logistics	Life Sciences	Automotive
Healthcare	Inventory	Transportation
Warehouse Management	Field Sales & Service	Commercial Services

## OPERATING SYSTEM COMPATIBILITY

Android OS: Basic Mode (HID) & Application Mode (SPP)	Mac OS: Basic Mode (HID) only
Apple iOS: Basic Mode (HID) & iOS Application Mode*	Windows: 10, 8, and 7: Basic Mode (HID) & Application Mode (SPP)

Compatible with devices supporting Basic Mode (HID) protocol. Supported keyboard languages - ANSI, English UK, English, French, German, Italian, Japanese, Polish, Spanish and Swedish

Certified by Apple® for iOS devices (iPad®, iPhone®, iPod Touch®) and compatible with Android and Windows®.

iOS



OS X



## CERTIFICATION & REGULATORY

Bluetooth SIG:	Declaration ID: D030473 QDID: 82009
Electrical Safety:	Certified to IEC 60950-1, UL 60950-1, CAN/CSA C22.2
Environmental:	RoHS EN 50581
EMI / RFI:	FCC Part 15 Class C, RSS 210, iCES 003, C-Tick, CISPR 22, CE EN55022, EN55024, TELEC
LED Safety:	IEC/EN 62471 (Exempt Group) FCC ID: LUBMA41 IC ID: 2529A-MA41S8 Telec ID:  201-125709

ISO 9001  
Accreditation



[socketmobile.com](http://socketmobile.com)

Worldwide:	+1 510 933 3000
North America:	+1 800 552 3300
EMEA & Russia:	+41 62 834 07 80
France:	+33 (801) 840504
Malaysia (Toll Free)	+60 (1800) 818234

[sales@socketmobile.com](mailto:sales@socketmobile.com)

Asia Pacific:	+1 510 933 3122
Germany:	+41 62 834 07 80
Switzerland:	+41 62 834 07 80
Switzerland (Toll Free):	+41 (800) 898003
UK/Ireland/South Africa:	+44 (800) 0487363

[sales-japan@socketmobile.com](mailto:sales-japan@socketmobile.com)

Japan:	+8190 9808 0518
Japan (Toll Free):	+81 (800) 9190303
Latin America:	+1-510-933-3153
Taiwan (Toll Free)	+886 00801491497

©2022 Socket Mobile, Inc. All rights reserved. Socket®, the Socket Mobile logo, SocketScan®, DuraScan®, Battery Friendly® are registered trademarks or trademarks of Socket Mobile, Inc. Microsoft® is a registered trademark of Microsoft Corporation in the United States and other countries. Apple®, iPad®, iPad Air®, iPad mini®, iPad Pro®, iPhone®, iPod touch®, Objective-C®, Swift™, and Xcode® are registered trademarks of Apple, Inc., registered in the U.S. and other countries. The Bluetooth® Technology word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Socket Mobile, Inc. is under license. Other trademarks and trade names are those of their respective owners.