KDC®280

Bluetooth Barcode Scanner
and Data Collector

Small but Mighty:
Versatility Without the Premium Price

The KDC280 is a lightweight, compact, and rugged Bluetooth barcode scanner engineered for professional mobile data collection. Despite its small size, it delivers enhanced scanning performance, with up to 80,000 scans per charge[1] and over 300% greater battery life[2] compared to similar companion scanners. A clear display and intuitive interface ensure efficient operation, while terminal capabilities enhance functionality beyond simple batch scanning. The KDC280 provides added versatility at the price of a typical companion scanner.

1 Achieves approximately 80,000 scans, if scanned at 1sec intervals using the Laser model. Based on internal testing.
2 Approximately 3x the battery life when compared to typical consumer-grade products. Based on internal testing.

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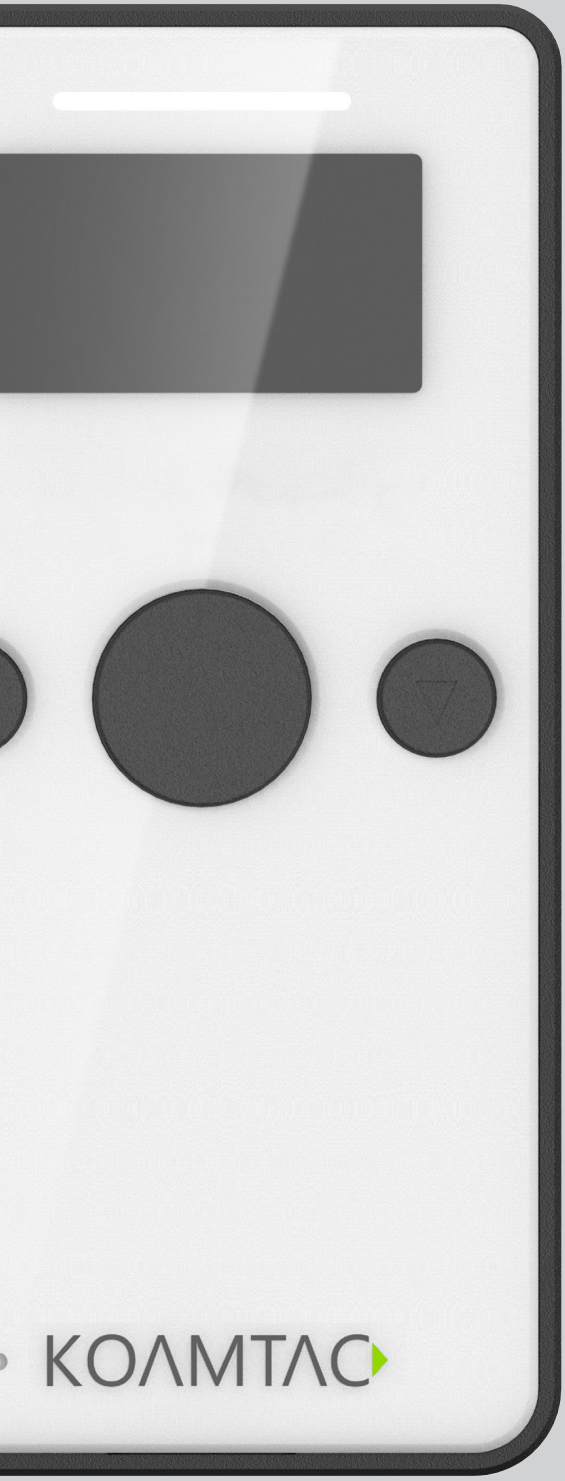

Keyboard wedging and configuration features are included in the complementary SDK for Android, iOS, macOS, Windows, Xamarin, Cordova, React Native, Flutter, and Web. Additionally, receive technical support from top engineers and the development team to ensure ease of data collection in any situation.

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Small Size, Big Impact

The KDC280 is roughly 50% smaller[3] and much lighter than competing devices, making it incredibly portable. Small enough to fit in a pocket and light enough to wear on a lanyard for a full day without strain. The 1" OLED display and intuitive 3-button design simplify interaction. Results are displayed directly on screen, eliminating guesswork.

Longer-lasting Power

The KDC280 offers up to 300% longer battery life than competing scanners[4], despite its compact 650mAh rechargeable battery. This exceptional performance comes from advanced power management that places the scanner into a low-power hibernation mode during inactivity. The KDC280 delivers impressive battery life on a single charge when scanning once every 10 seconds: over 7 days for the Laser model (KDC280L), over 3 days for the CCD model (KDC280D), and nearly 2 days for the Imager model (KDC280C), depending on usage patterns[5]. As a result, the battery can easily last through multiple shifts. Recharging is simple via USB-C or an optional charging cradle, ensuring minimal downtime.

Customizable, Configurable, Capable

Available in 1D Laser, 1D CCD, and 2D Imager models, the KDC280 supports all major barcode symbologies and includes 5MB of memory for storing over 256,000 barcodes or running lightweight applications. Unlike standard keyboard wedge or batch scanners, the KDC280 operates as a barcode terminal with a Application Mode that allows users to run custom programs directly on the device. This functionality supports interactive, workflow-specific tasks without dependence on a host system for enhanced control and flexibility in the field.

Durable and Dependable

The KDC280 combines an IP65 rating with a 5-foot drop specification to ensure reliable operation in harsh environments. Many scanners in this class fall short in either impact resistance or environmental sealing, but the KDC280 offers both. A protective boot is also available to provide additional shock absorption for high-impact workflows.

Seamless Connectivity

The KDC280 features Bluetooth® Low Energy 5.0 to enable faster and simpler connection methods for use with smart watches, smart glasses, and other wearable smart devices. When connected via the BLE profile, users will experience low power consumption and fast data transmission while maintaining an uncompromisable connection.

Unmatched Value

The KDC280 offers extended battery life, advanced scanning capabilities, and rugged construction at a significantly lower price than comparable devices. It is engineered to deliver professional-grade performance while keeping total cost of ownership low, making it an ideal choice across various industries.

3 Approximately 50% the size of similar devices. Based on internal measurement data.
4 Approximately 3x the battery life when compared to typical consumer-grade products. Based on internal testing.
5 Battery life based on internal testing using 1 scan/10 seconds.

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Hardware Specifications

Physical Characteristics
Size: 1.57″ x 3.23″ x 0.71″ (40 mm x 82 mm x 18 mm)
Weight: 2.03 oz (57.5 g)

Electrical Characteristics
Battery: Lithium-Ion (3.7V DC, 650mAh)
Charging: USB, Charging Cradle

Operation Time (1 scan every 10 seconds)
KDC280L: Over 7 days
KDC280D: Over 3 days
KDC280C: Almost 2 days

Interfaces
Bluetooth Low Energy 5.0: HID (Android/iOS/Windows), SPP (Optional Secure Mode)
USB: Flash Memory (Windows), USB HID, USB Serial (Android with OTG cable / Windows)

User Environment
IP Rating: IP65
Drop Spec: 5 feet (1.5m)
Operating: 14˚F to 122˚F (-10˚C to 50˚C)
Storage: -4˚F to 140˚F (-20˚C to 60˚C)
Humidity: 5% to 95% (non-condensing)

Performance

Functionality
Memory Flash: Program 1MB / User Data 5MB
Memory RAM: 256KB
Can store up to 256,000 barcodes (EAN-13)

Wedging & Synchronization
Store to a file or transfer to an application
Keyboard wedge function
Add-on prefixes and suffixes
Barcode option selection

Application Generation
SDK for Android, Xamarin, Cordova, React Native, Flutter, and Web
Database Lookup and Inventory Management features

Regulatory Conformance
R&TTE, FCC, KC, J-MIC, VCCI, SRRC, RoHS Compliant
Laser Safety: IEC60825/CDRH Class II
LED Safety: IEC62471:2006

OS Support
Android, iOS, macOS, Windows

Scan Engine Specs (20mil Code39)
Laser: 1.57″ to 25.59″ (40 mm to 650 mm)
CCD: 2.36″ to 18.11″ (60 mm to 460 mm)
Imager: 2.79″ to 29.41″ (71 mm to 747 mm)

Symbologies
Laser/CCD(1D): EAN-13, EAN-8, UPC-A, UPC-E, Code 39, ITF14, Code 128, Interleaved 2 of 5, Codabar, GS1-128, Code 93, Code 35, Bookland EAN-13, EAN-13/8 incl. add on, UPC-A/E incl. add on, GS1 Omni, GS1 Limited, GS1 Expanded

Imager (1D): Codabar, Code 11, Code 39, Code 93, Code 128, EAN-8, EAN-13, GS1 Composite, Interleaved 2 of 5, Matrix 2 of 5, MSI, Plessey, GS1 Omni, GS1 Limited, GS1 Expanded, Straight 2 of 5 Industrial, Straight 2 of 5 IATA, Telepen, Tri-Optic, UPC-A, UPC-E0, UPC-E1
Imager (2D): Aztec Code, Aztec Runes, Codablock F, Data Matrix, MaxiCode, MicroPDF417, PDF417, QR Code
Postal Codes: POSTNET, Planet Code, British Post, Canadian Post, Netherlands (KIX) Post, Australian Post, Japanese Post, Chinese Post, Korean Post

Other Features

Special Features
NFC Pairing

Also available in a bundled package that includes everything you need for plug-and-play scanning:

1x KDC280-C 2D Imager Barcode Scanner
1x KBLED50 Bluetooth Low Energy (BLE) 5.0 USB Dongle
1× 1-Slot Charging Cradle
1x Retractable KOAMTAC Lanyard
1x KDC USB Cable
1x L-Shaped DC Jack USB Cable
1x Power Supply

Your KDC

Models
KDC280L, KDC280D,KDC280C
*L=1D Laser, D=1D CCD, C=2D Imager

Compatible Accessories
1-Slot Charging Cradle
4-Slot Charging Cradle
KDC280 Protective Boot
KBLED50 Dongle

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