



KDC[®]180

Wearable Barcode Scanner
& UHF Reader



A Small but Mighty Compact Barcode Scanner

The KDC180, compact and lightweight, pairs effortlessly with the KOAMTAC Ring Trigger or Safety Glove, creating a dynamic wearable solution. With models supporting inductive charging, UHF tag reading, and an alphanumeric keypad, the KDC180 is ready to tackle any task. Charge conveniently via USB or pogo pins using our 2- or 10-Slot Charging Cradles.



KDC180

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Wearable-Ready

The KDC180 seamlessly integrates with both the Ring Trigger and Safety Glove wearable accessories for maximum functionality. The KDC180 Ring Trigger allows ambidextrous use, fitting on two fingers with a scan button accessible by the thumb. Easily switch between the Ring Trigger and Safety Glove configurations for optimal adaptability. The Safety Glove provides a comfortable fit over bare hands or work/winter gloves, featuring lightweight, washable, cut-resistant yarn. The KDC180 securely snaps into the palm base, with scanning triggered by a conveniently located button next to the thumb.

Designed

The KDC180 simply and securely integrates with KOAMTAC wearable accessories. The 1" OLED display along with a set of 5 programmable LED indicators provides scan feedback to the user. Additionally, the KDC180 is available in models including a number pad allowing for manual entry of unreadable or problematic barcodes.

Versatile

The KDC180 series features 2D imager scan engines across all models, capable of reading all major barcode symbologies and offering three distinct read ranges: standard (KDC180H), medium (KDC180MR), and extended (KDC180ER). This flexibility allows businesses to select the optimal scanning range, whether for close-up or distant scanning needs. The KDC180 is also available in models featuring a 0.5W UHF reader.

Rugged

The KDC180 is IP65-rated and has a 6' drop spec. This means the device is dust tight and water resistant; it's ideal for any environment.

Powered

Advanced power management puts the scanner in "hibernation mode" when not actively in use, allowing the battery to outlast an average work shift. Easily charge the KDC via USB, charging cradle, or swap the rechargeable/replaceable battery. Some KDC180 models support inductive charging allowing you to charge using your favorite wireless charging pad.

Connected

BLE offers low power consumption and fast data transmission while maintaining an uncompromised connection. The KDC180 also features NFC Pairing to Android host devices enabling users to connect in HID or SPP by simply approaching the NFC area of the host device with the KDC180.

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.



Hardware Specifications

Physical Characteristics

Size (Inductive, Keypad): 2.72" x 1.57" x 0.80"
(69 mm x 40 mm x 20.3 mm)

Size (UHF): 2.72" x 1.57" x 1.10" (69 mm x 40 mm x 27.1 mm)

Weight: 2.23 oz (63.2 g)

Weight (Inductive): 2.30 oz (65.3 g)

Weight (Keypad): 2.30 oz (65.3 g)

Weight (UHF): 2.87 oz (81.5 g)

Weight (UHF, No Scanner): 2.66 oz (75.4 g)

Weight (Single Ring Trigger Only): 0.72 oz (20.5 g)

Weight (Glove Only): 1.76 oz (50 g)

Operation Time (1 scan every 10 seconds)

KDC180: Over 3 days

KDC180MR: Over 2 days

KDC180ER: Over 2 days

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

Application generation tool and Matching

Regulatory Conformance

RED, FCC, KC, TELEC, VCCI, SRRC, RoHS Compliant

LED Safety: IEC62471:2006

Laser Safety: IEC60825-1 (Class II)

OS Support

Android, iOS, macOS, Windows

Your KDC

Models

KDC180H, KDC180MR (medium range), KDC180ER (extended range), KDC180HK, KDC180HW, KDC180HU, KDC180U

*H=2D Imager, K=Keypad, U=0.5W UHF, W=Inductive Charging

Compatible Accessories

Ring Trigger

Safety Glove

2 and 10-Slot Charging Cradles

KDC180 OtterBox uniVERSE Adaptor

Interfaces

Bluetooth Low Energy 5.0: HID (Android/iOS/Windows),

SPP (Optional Secure Mode)

USB: USB HID, USB Serial (Android with OTG cable / Windows)

Electrical Characteristics

Battery: 1010mAh Lithium-Ion (removable)

Charging: USB, Charging Cradle

User Environment

IP Rating: IP65

Drop Spec: 6 feet (1.8m)

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)

Scan Engine Specs (20mil Code39)

KDC180H: 1.38" to 31.5" (35 mm to 800 mm)

KDC180MR: 3.3" to 59.0" (85 mm to 1500 mm)

KDC180ER: 3.4" to 112.1" (88 mm to 2848 mm)

Symbologies

Imager (1D): Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, EAN-8, EAN-13, GS1 Composite, Interleaved 2 of 5, Matrix 2 of 5, MSI, Plessey, PosiCode, GS1 Omni, GS1 Limited, GS1 Expanded, Straight 2 of 5 Industrial, Straight 2 of 5 IATA, TCL39, Telepen, Tri-Optic, UPC-A, UPC-E0, UPC-E1

Imager (2D): Aztec Code, Aztec Runes, Codablock F, Code 49, Data Matrix, MaxiCode, MicroPDF417, PDF417, QR Code, Han Xin Code

Postal Codes: POSTNET, Planet Code, British Post, Canadian Post, Netherlands (KIX) Post, Australian Post, Japanese Post, Chinese Post, Korean Post

OCR/MRZ: OCR-A, OCR-B, OCR US Currency, OCR MICR, OCR Semi, OCR ISBN, OCR Passport

UHF Specs (for UHF models only)

Nominal Read Range: 1.5'+ (0.5 m+)

Supported Standards: EPC Class1 Gen2, EPC Gen2 V2

Special Features

NFC Pairing

