



# KOAMTAC

## KDC180

### Wearable Barcode Scanner & UHF Reader

Rugged ▶ Powered ▶ Designed ▶ Connected ▶ Equipped ▶

The compact and lightweight KDC180 designed for use with KOAMTAC's Ring Trigger or Finger Trigger Glove to create the perfect wearable solution for your business. With models supporting inductive charging, UHF tag reading, and an alphanumeric keypad, the KDC180 is ready to tackle any task. Charge your device via Micro USB cable or pogo pins in our 2- or 10-Slot Charging Cradles.

#### 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. When power does run out, easily charge the KDC via Micro USB cable or charging cradle. Some KDC180 models support inductive charging allowing you to charge using your favorite wireless charging pad. Lastly, the KDC180 is equipped with a replaceable battery, making swapping batteries a breeze.

#### Designed

The KDC180 easily and securely integrates with wearable scanning solutions such as the Ring Trigger or Finger Trigger Glove. 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.

#### Connected

The KDC180 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. 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.

#### Equipped

The KDC180 is equipped with a 2D imager scan engine capable of reading all major barcode symbologies. The KDC180 is also available in models with an integrated UHF reader capable of reading popular RFID standards.

KTSync® software with keyboard wedging, application generation, database look up, inventory management, and KDC configuration features is included for Android, iOS, and Windows devices. Complementary SDK for Android, iOS, Mac OS X, Tizen, Windows, Xamarin, and Cordova and technical support from top engineers and the development team ensure ease of data collection in any situation.



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### 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)

### Electrical Characteristics

Battery: 1010 mAh Lithium-ion (removable)  
Charging: Micro USB connector, Charging Cradle

### Interfaces

Bluetooth<sup>®</sup> Low Energy 5.0: HID (Android/iOS/Windows), SPP/Open (Android/Tizen)  
Micro USB: USB HID, USB Serial (Android with OTG cable / Windows)

### User Environment

Ingress Protection Rating: IP65  
Drop Spec: 6' (1.8 m)  
Operating: -4°F to 122°F (-20°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 ROM: 256 KB Program, 256KB User Data  
Memory RAM: 64KB  
Can store up to 13,000 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, iOS, Mac OS X, Tizen, Windows, Xamarin, Cordova  
Application generation tool  
Database Lookup, Inventory Management, and Matching

#### OS Support

Android, iOS, Mac OS X, Tizen, Windows, Xamarin, Cordova

#### Regulatory Conformance

R&TTE, FCC, KC, TELEC, VCCI, SRRC, RoHS Compliant  
LED Safety: IEC62471:2006  
Laser Safety: IEC60825-1 (Class II)

#### Scan Range (10mil Code39)

KDC180H: 1.57" to 20.30" (40 mm to 517 mm)

#### UHF Specs (for UHF models only)

Nominal Read Range: 1.5'+ (0.5 m+)  
Supported Standards: EPC Class1 Gen2, EPC Gen2 V2

#### 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 16K, 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 Options:** OCR-A, OCR-B, OCR Passport (optional), OCR MICR(E13B), OCR Semi Font

#### Special Features

NFC Pairing

### Your KDC

#### Models

KDC180H

#### Compatible Accessories

Ring Trigger (Left/Right/Double)  
Finger Trigger Glove  
2 and 10-Slot Charging Cradles

#### Package Contents

1 x KDC180 Reader  
1 x KDC Lanyard  
1 x KDC Micro USB Cable  
1 x KDC180 Protective boot (Optional)  
1 x Ring Trigger (Left/Right/Double) or Finger Trigger Glove (Optional)

