KDC®180
Wearable Barcode Scanner & UHF Reader

Rugged ▶ Powered ▶ Designed ▶ Connected ▶ Equipped ▶

The compact and lightweight KDC180 is designed for use with the KOAMTAC Ring Trigger or Safety 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, charging cradle, or swap the rechargeable/replaceable battery. Some KDC180 models support inductive charging allowing you to charge using your favorite wireless charging pad.

Designed
The KDC180 easily and securely integrates with the Ring Trigger and Safety Glove 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.

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
All KDC180 models are equipped with 2D imager scan engines capable of reading all major barcode symbologies and offer three different read ranges: standard range (KDC180H), medium range (KDC180MR), and extended range (KDC180ER). This provides businesses with the flexibility to choose the best option for their scanning needs, whether it's scanning up close or from a greater distance. 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)

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 and Matching

OS Support

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

Regulatory Conformance

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

Electrical Characteristics

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

Interfaces

Bluetooth® Low Energy 5.0: HID (Android/iOS/Windows), SPP (Optional Secure Mode)
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)

Scan Range (20mil Code39)

Scan Range (KDC180H): 1.7" to 31.5" (44 mm to 800 mm)
Scan Range (KDC180MR): 3.3" to 59.0" (85 mm to 1500 mm)
Scan Range (KDC180ER): 3.4" to 104.1" (88 mm to 2848 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

Special Features

NFC Pairing

Your KDC

Models

KDC180H, KDC180MR, KDC180ER, KDC180HK, KDC180HW, KDC180HUU, KDC180UU

Compatible Accessories

Ring Trigger (Left/Right/Double)
Safety Glove
2 and 10-Slot Charging Cradles
KDC180 OtterBox uniVERSE Adaptor

Package Contents

1 x KDC180 Reader
1 x KDC Lanyard
1 x KDC Micro USB Cable
1 x KDC180 Protective Boot

KDC180H/ MR/ER

KDC180HW Inductive

KDC180K Keyboard

KDC180HU UHF+Barcode

KDC180U UHF Only