KOAMTAC▸

KDC®180
Wearable Barcode Scanner & UHF Reader

Rugged ▸ Powered ▸ Designed ▸ Connected ▸ Equipped ▸

The compact and lightweight KDC180 designed for use with KOAMTAC's Ring Scanner 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 alongside other KOAMTAC products via pogo pins in our unique Multi-bay Charging Cradles.

Rugged
The KDC180 is IP65-rated and has a 5' 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 multi-bay charging cradle. Some KDC180 models support inductive charging allowing you to charge using your favorite wireless charging pad.

Designed
The KDC180 easily and securely integrates with wearable scanning solutions such as the Ring Scanner 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.

Equipped
The KDC180M and KDC180H are equipped with a 2D imager and are able to read all major barcode symbologies. While both KDC180 scan engines are powerful, the KDC180H provides more aggressive scanning for a variety of environments. The KDC180 is 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 and technical support from top engineers and the development team ensure ease of data collection in any situation.

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KDC®180
1D Imager
Barcode Scanner & Data Collector

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 (Inductive): 2.24 oz (63.5 g)
Weight (Keypad): 2.26 oz (64 g)
Weight (UHF): 2.86 oz (81g)
Weight (Ring Scanner Only): 0.72 oz (20.5 g)
Weight (Glove Only): 1.76 oz (50 g)

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

Interfaces
Bluetooth® Low Energy, HID/SPP/Open
USB to Serial (Micro USB port)
HID/Flash Memory

User Environment
Ingress Protection Rating: IP65
Drop Spec: 5' (1.5 m)
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 ROM: 256 KB Program, 256KB User Data
Memory RAM: 64KB

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, and Windows
Application generation tool
Database Lookup, Inventory Management, and Matching

OS Support
Android, iOS, Mac OS X, Tizen, and Windows

Regulatory Conformance
R&TTE, FCC, KC, TELEC, VCCI, SRRC, RoHS Compliant
LED Safety: IEC62471:2006

Scan Range (10mil Code39)
KDC180M: 1.81" to 9.68" (46 mm to 246 mm)
KDC180H: 1.10" to 13.3" (28 mm to 338 mm)

Supported RFID Standards (UHF Companion)
EPC Class1 Gen2, EPC Gen2 V2

Symbologies (KDC180M)
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, Netherlands (KIX) Post, Australian Post, Japanese Post, Chinese Post, Korean Post
OCR Options: OCR Passport

Symbologies (KDC180H)
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

Your KDC

Models
KDC180U, KDC180M, KDC180H

Compatible Accessories
Ring Scanner
Finger Trigger Glove
Multi-bay Charging Cradles

Package Contents
1 x KDC180 Reader
1 x KDC Lanyard
1 x KDC Micro USB Cable
1 x KDC180 Protective boot (Optional)
1x Ring Scanner or Finger Trigger Glove (Optional)