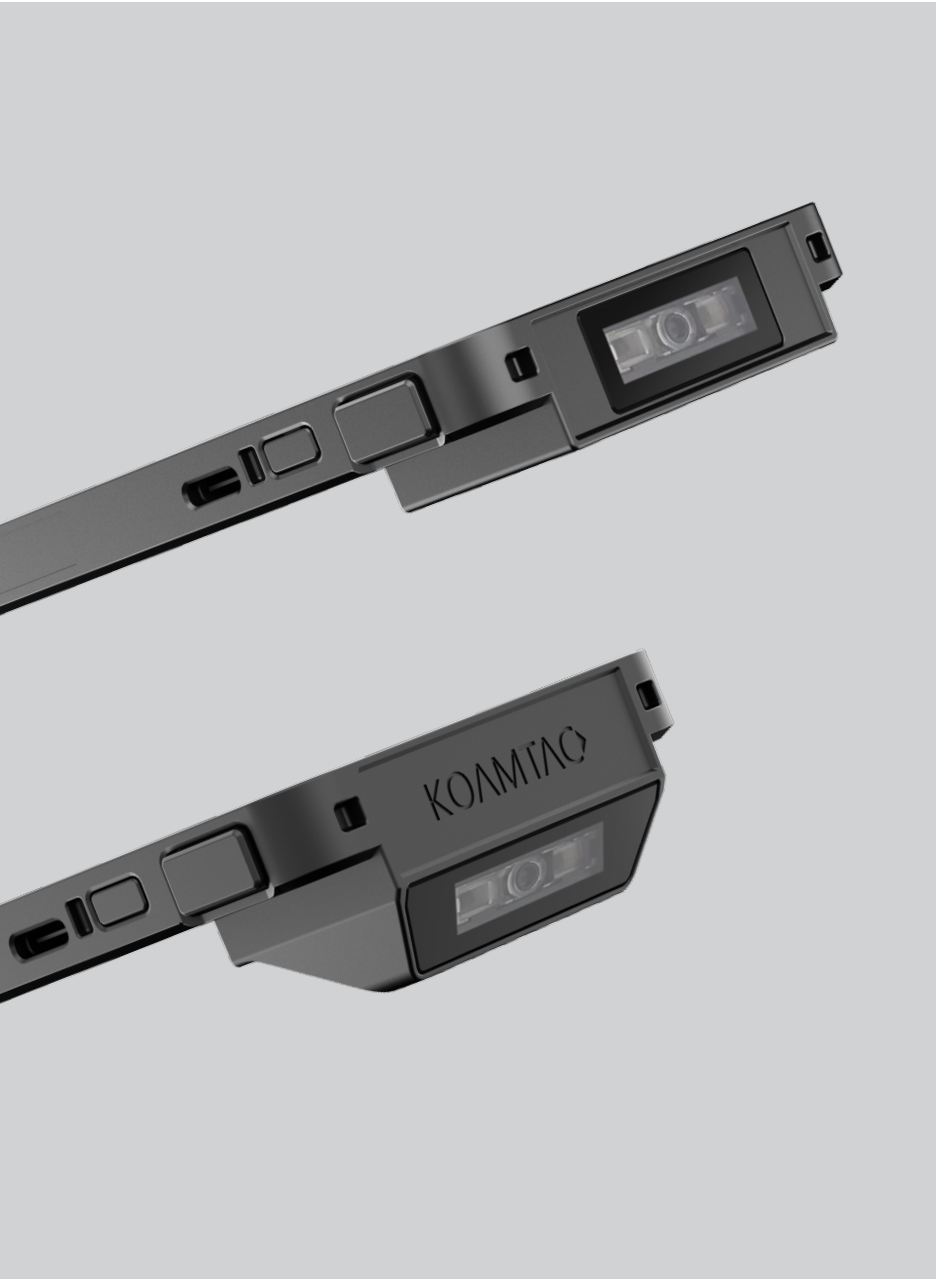

KDC480 & KDC485

Barcode/RFID/mPOS SmartSled®

Unrivaled Modular Performance

Whether you require barcode or RFID tag reading, this is the KDC for you. The KDC480 and KDC485 SmartSled scanners are rugged devices with an IP65 rating and are built to last. Designed to handle any data collection task swiftly and accurately, these devices offer companion modules tailored to your needs. Keep productivity uninterrupted with our innovative charging cases, ensuring you never miss a moment of efficiency.

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KDC480/485 - 20260729

KDC480 & KDC485

Barcode/RFID/mPOS SmartSled®

Attach to Any Smartphone or Tablet

The KDC480 and KDC485 SmartSled scanners seamlessly attach to any smart device using a custom case, creating a versatile sled scanning solution. This innovative modular design ensures you can upgrade your smart device without replacing the entire scanning solution, safeguarding your investment in the KDC against advancements in smartphone and tablet technology.

Well-Equipped

At their core, the KDC480/485 are versatile barcode scanners, available in multiple models: 1D Laser, 1D CCD, and 2D Imager, ensuring compatibility across various barcode types used in any industry. The KDC480 has a forward-facing scan engine, while the KDC485 features downward angled scan engines for comfortable, level scanning of lower-positioned barcodes. Additionally, KDC485 models are available for three different read ranges: standard range (KDC485H), medium range (KDC485MR), and extended range (KDC485ER), providing businesses flexibility for close-up or distant scanning needs.

Rugged

The KDC480/485 has a 5' drop spec, and is IP65-rated. This means the device is dust tight and water resistant— ideal for any environment.

Powered

The KDC480/485 utilizes the display of the connected smart device, providing accurate information in a form and appearance that is familiar to the user. Furthermore, the SmartSled establishes a seamless wireless connection to the host device via Bluetooth Low Energy 5.0, with optional accessories for USB OTG connectivity if desired. A variety of charging cradles, are available for the KDC480/485 and can be scaled to large and small operations.

Rich Companion Ecosystem

With a modular architecture, the KDC480/485 facilitates the attachment of multiple accessories, expanding the functionality of your SmartSled. These companions include short and long-range UHF Readers, an HF (NFC) Reader, a 4,000mAh Extended Battery, a Pistol Grip with an optional 6,000mAh Extended Battery, as well as two mPOS options.

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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KDC480 & KDC485

Barcode/RFID/mPOS SmartSled®

Hardware Specifications

Physical Characteristics
Size (KDC480): 2.56" x 4.13" x 0.62" (65 mm x 105 mm x 15.8 mm)
Size (KDC485): 2.56" x 4.13" x 0.94" (65 mm x 105 mm x 24 mm)
Weight (KDC480): 3.07 oz (87g)
Weight (KDC485): 3.1 oz (88 g)

Electrical Characteristics
Battery: Lithium-ion (3.7V DC, 1100mAh)
Charging: USB-C, Charging Cradle via Pogo Pins

Operation Time (1 scan every 10 seconds)
KDC480L: Over 7 and days
KDC480D: Over 3 days
KDC480C: Over 3 and a half days

Interfaces
Bluetooth® Low Energy 5.0: HID (Android/iOS/Windows),
SPP (Optional Secure Mode)
USB: USB HID, USB Serial (Android with an integrated case)
Lightning: Serial (iOS with an integrated case)

User Environment
IP Rating SmartSled: IP65
IP Rating SmartSled w 1.0W UHF Reader: IP54
Drop Spec: 5' (1.5 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: 5MB User Data
Can store up to 256,000 barcodes (EAN-13)

Wedging & Synchronization
Keyboard wedge function
Add-on prefixes and suffixes
Barcode option selection

Application Generation
SDK for Android, iOS, macOS, Windows, Xamarin, Cordova, React Native, Flutter, and Web

OS Support
Android, iOS, macOS, Windows

Scan Range (20mil Code39)
L - Laser: 1.57" to 25.59" (40 mm to 650 mm)
D - CCD: 2.36" to 18.11" (60 mm to 460 mm)
C - Imager: 2.79" to 29.41" (71 mm to 747 mm)
S - Laser: 1.40" to 52.00" (35 mm to 1320 mm)
H - Imager: 1.73" to 31.5" (44 mm to 800 mm)
MR - Imager: 3.3" to 59.0" (85 mm to 1500 mm)
ER - Imager: 3.4" to 112.1" (88 mm to 2848 mm)

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

Symbologies

KDC480 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

KDC485 Symbologies
Laser (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 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 (H, MR, ER): OCR-A, OCR-B, OCR US Currency, OCR MICR, OCR Semi, OCR ISBN, OCR Passport

Your SmartSled

Models
KDC480L 1D Laser
KDC480D 1D CCD
KDC480C 2D Imager
KDC485S 1D Laser
KDC485H 2D Imager
KDC485MR Medium Range 2D Imager
KDC485ER Extended Range 2D Imager
KDC480 (no barcode)

Compatible Accessories
0.5W UHF Reader
1.0W UHF Reader
HF/NFC Reader
Extended Battery
Pistol Grip
SLED-MSRIC
SLED-mPOS
1/4-Slot Charging Cradles
1/5-Slot Pistol Grip Cradles

CAUTION
LASER RADIATION—
DO NOT STARE INTO BEAM
≤1 MILLIWATT LASER DIODE
IEC60825-1 CLASS II LASER PRODUCT

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