



KBR2D

Kiosk Barcode Reader

KBR2D is the family of barcode scanners designed for self-service kiosks, ATMs, price checkers, healthcare and for any OEM application, also available in a plastic case version (KBR2D-C). KBR2D is a high-performance, high-volume omnidirectional scanner, capable of quickly and accurately reading any 1D and 2D barcodes, whether printed on paper (badges, receipts, health bracelets) or displayed on the screen of a smartphone or of a tablet. KBR2D scanners are based on CMOS technology for optimal image sensitivity and dynamic range. KBR2D integration is quick and easy thanks to several mounting options.

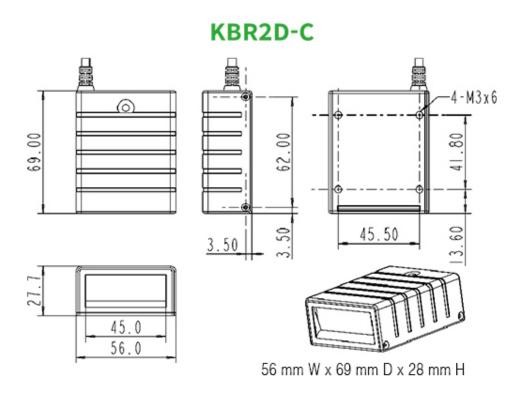




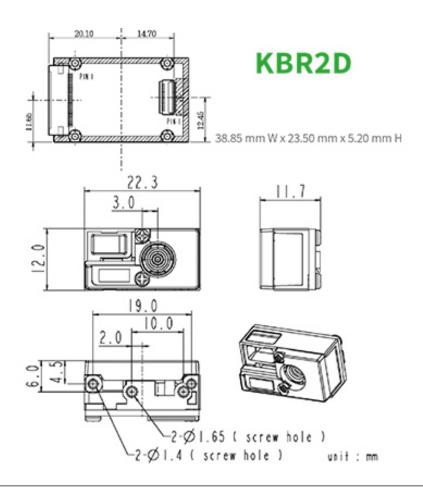
CHARACTERISTICS

- Easily integrated with various OEM applications
- 1D and 2D barcode scanning
- Omnidirectional scanning: no need to align barcode and scanner, ensuring user comfort and protecting productivity
- Long distance reading from 3 to 28 cm without problems even in direct sunlight (100,000 lux)
- **Reading barcodes on screens** of smartphones or tablets even with brightness reduced to 25/30%
- Red colored pointer for precise aiming and optimal barcode acquisition
- Flexibility: various external mounting options or internal screw holes
- Integrated decoder
- Custom ScannerSet configuration software

DIMENSION:









TECHNICAL SHEET

| | KBR2D-C | KBR2D |
|--------------------------------|--|------------------------------------|
| GENERAL | | |
| Interface | USB-HID(or Virtual COM port) | RS232/USB-HID(or Virtual COM port) |
| Barcodes Supported (1D) | UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, Code 39, Code 128, Interleaved 25, Industrial 25, Matrix 25, Codabar/NW7, Code 93, China Post, MSI/Plessey, Telepen, GS1 Databar Omni-directional, GS1 Databar Limited, GS1 Databar Expended | |
| Barcodes Supported (2D) | Data Matrix, PDF 417, QR Code, Micro QR Code, Dot Code DISABLED BY DEFAULT: Aztec, Micro PDF 417, Ha Xin Code, GM Code | |
| ELECTRICAL | | |
| Supply Voltage | | DC+5V±5% |
| Current Draw | | |
| Stand By (Typ.) | | 40mA ±10% |
| Operation (Typ.) | 380mA ±10% | |
| DEDEODMANOE | | |
| PERFORMANCE Light Source | W | |
| Sensor | | (H) x 800 (V) pixels |
| Field of View | Horizontal – 55°, Vertical – 35° | |
| Scan Rate | | (at full resolution) |
| Reading Distance | From 3 to 28 cm | |
| Print Contrast Ratio | PCS30%@5mil/0.127 mm | |
| Resolution | | Code39, 8mil/0.2 mm@PCS90% QRCode |
| Reading Angle | Test Conditions: Co | ode 39, 10mil/0.25 mm, PCS90% |
| Pitch Angle/Skew Tolerance | | 5°~60° (±5°) |
| Ambient Light | Works in any lighting | g conditions from 0 to 100,000 lux |
| Roll | 360° | |
| Indicator | G | ood read beep |
| ENVIRONMENTAL | | |
| Operating Temperature | | 0 °C to 50 °C |
| Storage Temperature | | 20 °C to 70 °C |
| Relative Humidity | 20% to 95% (Non-condensing) | |
| RELIABILITY | | |
| Life Time MTBF (calculated) | | 50,000 hours |
| Thermal Shock | | |
| High Temp. | | 60°C |
| Low Temp. | -20 °C | |
| Cycle Time | 30 minutes for high temp./30 minutes for low temp. | |
| Mechanical Shock | 2000G, 0.7ms, half sinus, 3axes | |
| Vibration | 8G r.m.s, from 10 to 500Hz, 2 hours per axis, 3 axes | |
| | | |



| KBR2D-C | | KBR2D | |
|-----------|--------------------------------|---------------------------------------|--|
| PHYSICAL | | | |
| Weight | | | |
| Reader | 106 g (optical + board + case) | 28 g (optical + board) | |
| USB cable | 51 g | - | |
| Material | Polycarbonate | - | |
| Dimension | 56 mm W x 69 mm D x 28 mm H | n H 38.85 mm W x 23.50 mm x 5.20 mm H | |

READING RANGE

| Barcode mil/Depth of Field mm | KBR2D-C | KBR2D |
|---|--|--|
| Reading area 160X100 213X134 50 100 200 200 | 10mil Code39 45~100 mm 10mil Code39 30~220 mm 20mil QR 30~280 mm | 3mil Code39 4mil Code39 10mil Code39 20mil Code39 50~220 mm 20mil Code39 50~300 mm 50~200 mm 50~120 mm |

Note: The test is under ambient light 700 $^{\sim}$ 800 Lux.

The difference in depth of field between the two models depends on the fact that in the KBR2D-C model the optics are housed in a frame.

MODELS





9C3FH01000001 KIOSK BARCODE SCAN 1D/2D OPEN FRAME KBR2D **9C3FH01000002** KIOSK BARCODE SCAN 1D/2D COVERED KBR2D-C

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The technical data on this website are not binding and may be changed without advanced notice. Last update: 02 December 2025