



## 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.

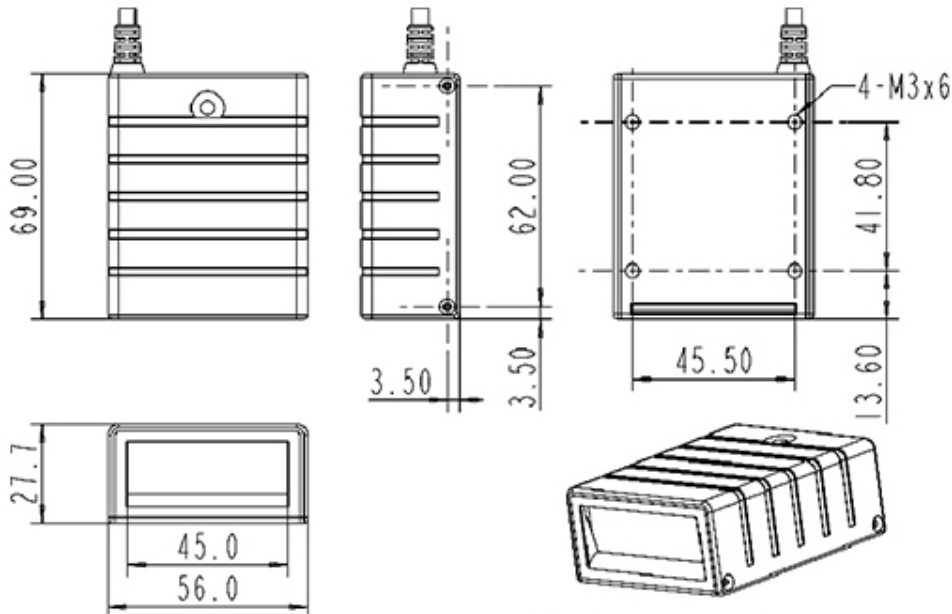


## CHARACTERISTICS

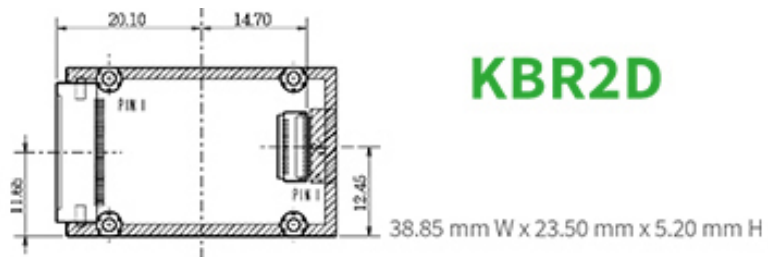
- **Easily integrated** with various OEM applications
- 1D and 2D barcode scanning
- **Omnidirectional scanning:** no need to align barcode and scanner, ensuring user comfort and protecting productivity
- **Long distance reading** from 3 to 28 cm without problems even in direct sunlight (100,000 lux)
- **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:

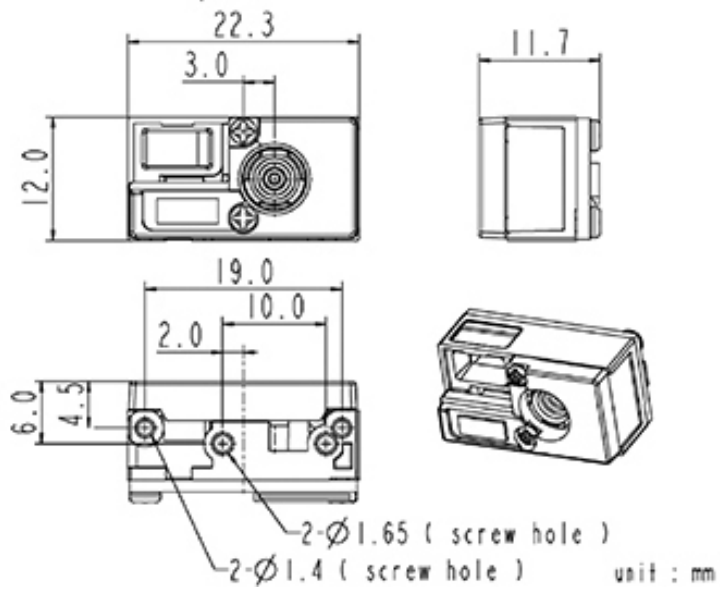
### KBR2D-C



56 mm W x 69 mm D x 28 mm H



## KBR2D

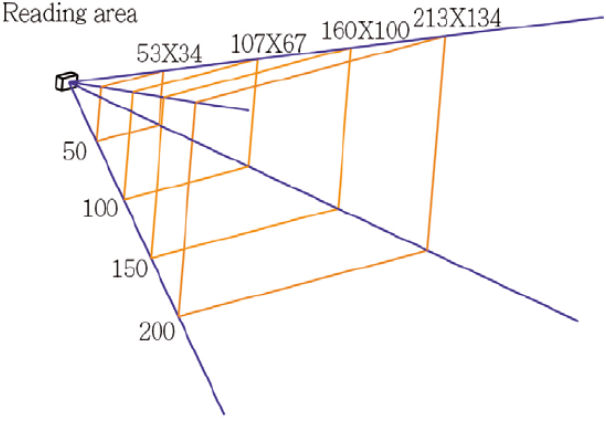


## TECHNICAL SHEET

|                             | 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 Expanded |                                    |
| Barcodes Supported (2D)     | Data Matrix, PDF 417, QR Code, Micro QR Code, Dot Code DISABLED BY DEFAULT: Aztec, Micro PDF 417, Han Xin Code, GM Code                                                                                                                |                                    |
| ELECTRICAL                  |                                                                                                                                                                                                                                        |                                    |
| Supply Voltage              | DC+5V±5%                                                                                                                                                                                                                               |                                    |
| Current Draw                |                                                                                                                                                                                                                                        |                                    |
| Stand By (Typ.)             | 40mA ±10%                                                                                                                                                                                                                              |                                    |
| Operation (Typ.)            | 380mA ±10%                                                                                                                                                                                                                             |                                    |
| PERFORMANCE                 |                                                                                                                                                                                                                                        |                                    |
| Light Source                | White light LED                                                                                                                                                                                                                        |                                    |
| Sensor                      | 1280 (H) x 800 (V) pixels                                                                                                                                                                                                              |                                    |
| Field of View               | Horizontal – 55°, Vertical – 35°                                                                                                                                                                                                       |                                    |
| Scan Rate                   | 60 fps (at full resolution)                                                                                                                                                                                                            |                                    |
| Reading Distance            | From 3 to 28 cm                                                                                                                                                                                                                        |                                    |
| Print Contrast Ratio        | PCS30%@5mil/0.127 mm                                                                                                                                                                                                                   |                                    |
| Resolution                  | 3mil/0.076 mm@PCS90% Code39, 8mil/0.2 mm@PCS90% QRCode                                                                                                                                                                                 |                                    |
| Reading Angle               | Test Conditions: Code 39, 10mil/0.25 mm, PCS90%                                                                                                                                                                                        |                                    |
| Pitch Angle/Skew Tolerance  | 5°~60° (±5°)                                                                                                                                                                                                                           |                                    |
| Ambient Light               | Works in any lighting conditions from 0 to 100,000 lux                                                                                                                                                                                 |                                    |
| Roll                        | 360°                                                                                                                                                                                                                                   |                                    |
| Indicator                   | Good 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    | 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                                                                      |                                                                                                                                                                                                                      |                                                                                                                                                                                                  |
|  | <b>3mil Code39</b> 50~90 mm<br><b>4mil Code39</b> 45~100 mm<br><b>10mil Code39</b> 30~220 mm<br><b>20mil Code39</b> 30~220 mm<br><b>20mil QR</b> 30~280 mm<br><b>Code</b> 30~210 mm<br><b>20mil PDF417</b> 30~120 mm | <b>3mil Code39</b> 60~100 mm<br><b>4mil Code39</b> 55~110 mm<br><b>10mil Code39</b> 50~220 mm<br><b>20mil Code39</b> 50~300 mm<br><b>20mil QRCode</b> 50~200 mm<br><b>20mil PDF417</b> 50~120 mm |

Note: The test is under ambient light 700 ~ 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



**9C3FH010000001**  
KIOSK BARCODE SCAN 1D/2D  
OPEN FRAME KBR2D

**9C3FH010000002**  
KIOSK BARCODE SCAN 1D/2D  
COVERED KBR2D-C

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