

# KBR2D



## CARATTERISTICHE PRINCIPALI

**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.

## SCHEDA TECNICA

|                                 | KBR2D-C                                                                                                                                                                                                                                | KBR2D                               |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| GENERAL                         |                                                                                                                                                                                                                                        |                                     |
| Interfaces                      | USB-HID (or Virtual COM port)                                                                                                                                                                                                          | RS232/USB-HID (or Virtual COM port) |
| Supported barcodes (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 |                                     |
| Supported barcodes (2D)         | Data Matrix, PDF 417, QR Code, Micro QR Code, Dot Code<br>DISABLED BY DEFAULT: Aztec, Micro PDF 417, Han Xin Code, GM Code                                                                                                             |                                     |
|                                 |                                                                                                                                                                                                                                        |                                     |
| ELECTRICAL                      |                                                                                                                                                                                                                                        |                                     |
| Supply voltage                  | DC +5V ±5%                                                                                                                                                                                                                             |                                     |
| When the scanner is in stand-by | 40 mA ±10%                                                                                                                                                                                                                             |                                     |
| When active                     | 380 mA ±10%                                                                                                                                                                                                                            |                                     |
|                                 |                                                                                                                                                                                                                                        |                                     |
| PERFORMANCE                     |                                                                                                                                                                                                                                        |                                     |
| Light source                    | White LED                                                                                                                                                                                                                              |                                     |

|                              |                                                                    |                                           |
|------------------------------|--------------------------------------------------------------------|-------------------------------------------|
|                              | KBR2D-C                                                            | KBR2D                                     |
| 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 lighting             | Works in any lighting condition from 0 to 100,000 lux              |                                           |
| Roll                         | 360°                                                               |                                           |
| Acoustic beep                | Good barcode reading                                               |                                           |
|                              |                                                                    |                                           |
| ENVIRONMENTAL                |                                                                    |                                           |
| Operating temperature        | 0 °C ~ 50 °C                                                       |                                           |
| Storage temperature          | -20 °C ~ 70 °C                                                     |                                           |
| Relative humidity            | from 20% to 95% (non-condensing)                                   |                                           |
|                              |                                                                    |                                           |
| RELIABILITY                  |                                                                    |                                           |
| Life MTBF (calculated)       | 50,000 hours                                                       |                                           |
| High temperatures            | 60°C                                                               |                                           |
| Low temperatures             | -20 °C                                                             |                                           |
| Cycle time                   | 30 minutes for high temperatures / 30 minutes for low temperatures |                                           |
| Mechanical shock             | 2000G, 0.7ms, half sine, 3 axes                                    |                                           |
| Vibration                    | 8G r.m.s, from 10 to 500Hz, 2 hours per axis, 3 axes               |                                           |
|                              |                                                                    |                                           |
| PHYSICAL                     |                                                                    |                                           |
| Reader                       | 106 gr (optics + board + case)                                     | 28 gr (optics + board)                    |
| USB cable                    | 51 gr                                                              | -                                         |
| Material                     | Polycarbonate                                                      | -                                         |
| Dimensions                   | 56 mm (W) x 69 mm (D) x 28 mm (H)                                  | 38.85 mm (W) x 23.50 mm (D) x 5.20 mm (H) |

|                                        |                |              |
|----------------------------------------|----------------|--------------|
| <b>READING RANGE</b>                   |                |              |
| <b>Barcode mil / Depth of field mm</b> | <b>KBR2D-C</b> | <b>KBR2D</b> |

