

# MD6850

## Handheld Image Scanner

**1D/2D**

### Features

- Megapixel image ensures better performance in decoding hard-to-read barcodes
- Read all common 1D/2D barcodes from paper labels and electronic screens
- Directly output Chinese characters contained in 2D barcodes
- Support image auto-induction function
- Plug-and-play interfaces enable the scanner to utilize with different host devices
- Optional vibration mode is ideal for both noisy and quiet circumstances
- Soft white auxiliary lighting and green aiming cursor deliver comfortable and convenient scanning experience

# MD6850 Specifications

## Mechanical & Electrical Characteristics

|                    |  |
|--------------------|--|
| Dimensions         | Height × Width × Depth: 175 mm × 65 mm × 81 mm |
| Weight             | 178 g, without cable                           |
| Cable              | Straight 2.0 m                                 |
| Connector Type     | RJ-45 phone jack connector                     |
| Indicator          | Beeper, LED, Vibrator                          |
| Interface          | RS-232, PS/2, USB Keyboard, USB virtual COM    |
| Operating Mode     | Hand-held, Auto-detection                      |
| Programming Method | Manual (reading special barcode)               |
| Program Upgrade    | Online   |
| Input Voltage      | 5 ± 0.25 VDC                                   |
| Current            | 135 mA (standby), 475 mA (scanning)            |

## Performance Characteristics

|                     |   |
|---------------------|---|
| Image Size          | 1280 × 800 pixels   |
| Field of View       | Horizontal: 42°, vertical: 26.5°  |
| Scanning Angle      | ±70°, ±75°, 360° (Skew, Pitch, Roll)  |
| Print Contrast      | 20% minimum reflectance difference  |
| Decoding Capability | 1D: UPC-A, UPC-E, UPC-E1, EAN-13, EAN-8, ISBN (Bookland EAN), ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Codabar (NW7), Code 128, UCC/EAN 128, ISBT 128, Code 93, Code 11 (USD-8), MSI/Plessey, UK/Plessey, China Post, China Finance, GS1 DataBar (formerly RSS) variants<br>2D: PDF417, MicroPDF417, QR Code, DataMatrix, Han Xin Code, Aztec Code |
| Minimum Resolution  | HD: 1D (Code 39): 3 mil, 2D (QR): 5 mil<br>SR: 1D (Code 39): 4 mil, 2D (PDF417): 6.7 mil  |

|                | High density series (HD) | Standard range series (SR) |
|----------------|--------------------------|----------------------------|
| Decoding Depth |                          |                            |
|                | 10 mm – 61 mm            | /                          |
|                | 5 mm – 88 mm             | 55 mm – 106 mm             |
|                | 0 mm – 179 mm            | 0 mm – 335 mm              |
|                | 10 mm – 253 mm           | 8 mm – 480 mm              |
|                | 7 mm – 65 mm             | /                          |
|                | 0 mm – 105 mm            | 37 mm – 145 mm             |
|                | 0 mm – 134 mm            | 0 mm – 168 mm              |
|                | 0 mm – 215 mm            | 0 mm – 345 mm              |

## Environmental Characteristics

|             |  |
|-------------|--|
| Temperature | -20° to 55°C (-4° to 131°F), operating; -20° to 75°C (-4° to 167°F), storage   |
| Humidity    | 5% to 95% (non-condensing)   |
| Safety      | EMC: EN55022, EN55024   Electrical Safety: EN60950-1<br>Photobiological Safety: EN62471:2008   Illumination: 0~100,000 LUX<br>Sealing: IP50   Drop Resistance: Withstands multiple 2.0 m (6.6 ft.) drops to concrete |

[Notice]: Specifications are subject to change without notice.

### For more information:

[www.mindeo.cn](http://www.mindeo.cn)

Shenzhen MinDe Electronics Technology Ltd.

Telephone : +86 (0)755 8614 1288

Fax : +86 (0)755 8602 2683

MD6850 V1.1  
© 2017 MINDEO

**MINDEO**<sup>®</sup>