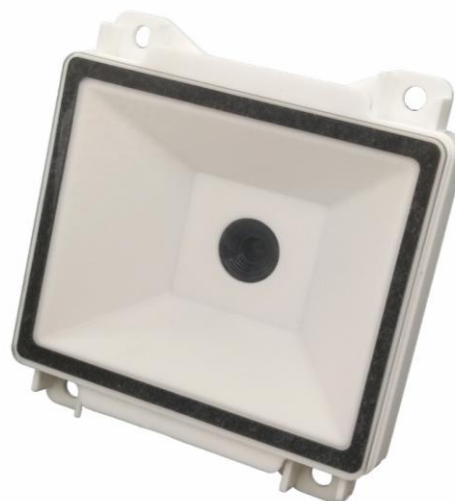


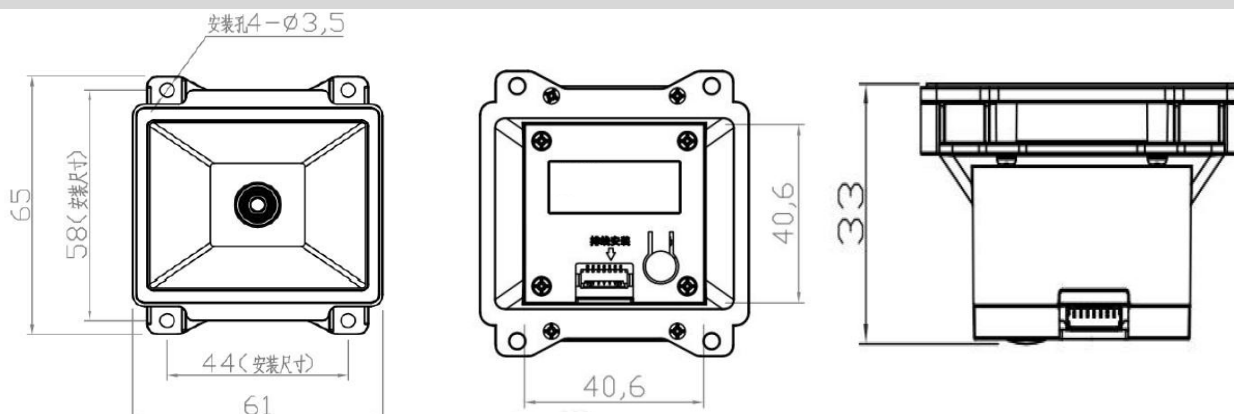
## HW-1870C (HD)

### FEATURES & BENEFITS

- Global shutter
- 32-bit high performance CPU, 1GHz frequency
- Decoding min barcode density: 4mil
- Support 1D/2D barcode on paper and screen
- Extremely high sensitivity, quick scanning
- Motion tolerance up to 50cm/s for code 128(25mil)
- Interface RS232 and USB(HID, COM)
- Decoding at low and high brightness environment
- Manual, Auto-sensing, Continuous, Host Mode
- Large window, small size, fast convenient installation



### Installation Dimensions



### Application Scenario



Ticket on bus



Turnstile



Vending machine



Ticket on cinema



Cabinet for logistics



self order machine(KFC)

# Technical Specification

## HW-1870C Parameters

|                           |                   |                                                                                                                                                                             |                                                                                                 |                                                                              |
|---------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Reading performance       | Image Sensor      | CMOS                                                                                                                                                                        |                                                                                                 |                                                                              |
|                           | Exposure          | Global shutter                                                                                                                                                              |                                                                                                 |                                                                              |
|                           | Resolution        | 300 thousand                                                                                                                                                                | 640*480pixels                                                                                   | 60fps                                                                        |
|                           | Decoding capacity | Support paper and screen barcodes                                                                                                                                           |                                                                                                 |                                                                              |
|                           |                   | 2D: QR, Micro QR, PDF417, Micro PDF417, Data Matrix, Maxicode, Aztec, GM code etc.                                                                                          |                                                                                                 |                                                                              |
|                           |                   | 1D: Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial |                                                                                                 |                                                                              |
|                           |                   | 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey etc. all normal 1D                                                                                                            |                                                                                                 |                                                                              |
|                           | Precision         | 4mil                                                                                                                                                                        |                                                                                                 |                                                                              |
|                           | Light Source      | LED(630nm±10nm)                                                                                                                                                             |                                                                                                 |                                                                              |
|                           | View Angle        | 76.7° (H) x53.4° (V)                                                                                                                                                        |                                                                                                 |                                                                              |
|                           | Scan Angle        | Rotation360° ,tilt±65° ,skew±65°                                                                                                                                            |                                                                                                 |                                                                              |
|                           | Min Contrast      | 25%                                                                                                                                                                         |                                                                                                 |                                                                              |
|                           | Motion Tolerance  | 50cm/s Code 128(25mil)                                                                                                                                                      |                                                                                                 |                                                                              |
|                           | IR Sensing        | Support                                                                                                                                                                     |                                                                                                 |                                                                              |
|                           | Typical DOF       | 10-90mm(5mil code39)<br>10-110mm(5mil UPCA)<br>25-150mm(15mil QR)<br>12-40mm(5mil PDF417)                                                                                   | 10-150mm(10mil code39)<br>10-120mm(10mil UPCA)<br>10-40mm(8mil QR)<br>11-38mm(8mil Data Matrix) | Performance may be impacted by bar code quality and environmental conditions |
| RFID performance          | Frequency         | 13.56MHz                                                                                                                                                                    |                                                                                                 |                                                                              |
|                           | Card Type         | S50,S70, ULTRALIGHT Type A etc.                                                                                                                                             |                                                                                                 |                                                                              |
|                           | Data format       | Default 8 bit Hex(format customized, like 10 bit 10 system,10 bit Hex)                                                                                                      |                                                                                                 |                                                                              |
|                           | Reading Rate      | 106K/Bit                                                                                                                                                                    |                                                                                                 |                                                                              |
|                           | Reading Speed     | 0.1S                                                                                                                                                                        |                                                                                                 |                                                                              |
|                           | Interval          | 0.5S                                                                                                                                                                        |                                                                                                 |                                                                              |
|                           | Reading Time      | ≤100ms                                                                                                                                                                      |                                                                                                 |                                                                              |
| Mechanical and electrical | Interface         | RS232(DB9..),USB(HID, COM)                                                                                                                                                  |                                                                                                 |                                                                              |
|                           | Working Voltage   | DC 5V                                                                                                                                                                       |                                                                                                 |                                                                              |
|                           | Current           | 360mA(Max)                                                                                                                                                                  | 220mA(working)                                                                                  | 5mA(wait)                                                                    |
|                           | Dimensions        | 65*61*33mm                                                                                                                                                                  |                                                                                                 |                                                                              |
|                           | Weight            | 35g(without cable)                                                                                                                                                          |                                                                                                 |                                                                              |
|                           | Indication        | Buzzer&LED                                                                                                                                                                  |                                                                                                 |                                                                              |
| Environment               | Working Tem       | -20~60℃                                                                                                                                                                     |                                                                                                 |                                                                              |

|         |             |                        |
|---------|-------------|------------------------|
| Request | Storage Tem | -40~70℃                |
|         | Humidity    | 5%-95%(Non-condensing) |
|         | Light       | 0~100,000Lux           |
|         | Immunity    |                        |
|         | Drop Test   | 1.8M(6ft)              |



**RS232 Cable**



**USB/USB COM Cable**