

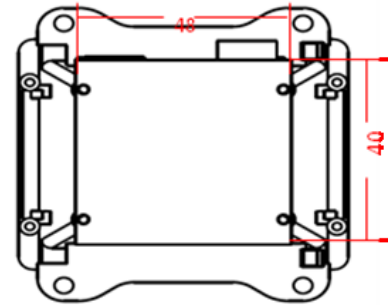
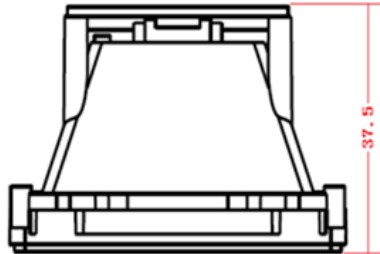
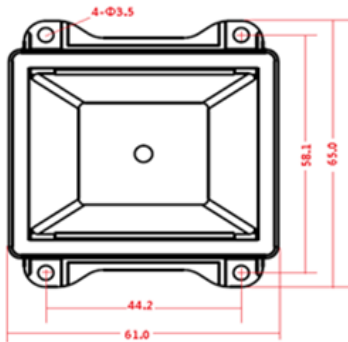
## HW-1800

### FEATURES & BENEFITS

- 32-bit high performance CPU
- Pixel resolution 640\*480 30FPS
- Decoding min barcode density:5mil
- Support 1D/2D barcode on paper and screen
- Manual, Auto-sensing, Continuous, Host(command)mode
- Host Mode: sending commands by serial port to control scanner
- USB,USB COM,TTL232,etc. interface
- Large window, small size, fast convenient installation



### Installation Dimensions & Interface



### Interface on scanner

| Connector         | PIN No | Signal name | Connector                      | Pin No | Signal name        |
|-------------------|--------|-------------|--------------------------------|--------|--------------------|
| 4Pin<br>Micro USB | 1      | VBUS        | 12Pin<br>For FFC<br>flat cable | 1      | VDD1               |
|                   | 2      | Data-       |                                | 2      | VDD2               |
|                   | 3      | Data+       |                                | 3      | GND                |
|                   | 4      | GND         |                                | 4      | RX                 |
| 6Pin UART         | 1      | VDD1        |                                | 5      | TX                 |
|                   | 2      | TX          |                                | 6      | USB D-             |
|                   | 3      | RX          |                                | 7      | USB D+             |
|                   | 4      | GND         |                                | 8      | Power_en/Ext_input |
|                   | 5      | D-          |                                | 9      | BEEP               |
|                   | 6      | D+          |                                | 10     | LED                |
|                   |        |             |                                | 11     | Ext_output         |
|                   |        |             |                                | 12     | TRIG               |



# Technical Specification

## HW-1800 Parameters

|                           |                   |                                                                                                                                        |                |                     |
|---------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|
| Reading performance       | Image Sensor      | CMOS                                                                                                                                   |                |                     |
|                           | Resolution        | 300 thousand 640*480pixels 30fps                                                                                                       |                |                     |
|                           | Decoding capacity | Support paper and screen barcodes                                                                                                      |                |                     |
|                           |                   | 2D: QR ,PDF417 , ,Data Matrix etc. code                                                                                                |                |                     |
|                           |                   | 1D: Code 39, Code 32, Code 128, UPC/EAN/JAN, Code 93, Interleaved 2 of 5, Codabar, Matrix 2 of 5, Industrial 2 of 5 etc. all normal 1D |                |                     |
|                           | Precision         | 5mil                                                                                                                                   |                |                     |
|                           | Light Source      | LED(630nm±10nm)                                                                                                                        |                |                     |
|                           | View Angle        | 80° (H) x60° (V)                                                                                                                       |                |                     |
|                           | Scan Angle        | Rotation360° ,tilt±65° ,skew±65°                                                                                                       |                |                     |
|                           | Min Contrast      | 25%                                                                                                                                    |                |                     |
| Mechanical and electrical | Motion Tolerance  | 20cm/s UPC (13mil)                                                                                                                     |                |                     |
|                           | Typical DOF       | 30-150mm(13mil code39)                                                                                                                 |                | 30-150mm(13mil UPC) |
|                           |                   | 30-200mm(15mil QR)                                                                                                                     |                | 40-300mm(25mil QR)  |
|                           |                   | Performance may be impacted by bar code quality and environmental conditions                                                           |                |                     |
|                           | Interface         | USB(HID, COM) UART TTL232                                                                                                              |                |                     |
|                           | Working Voltage   | DC 5V                                                                                                                                  |                |                     |
| Environment Request       | Current           | 120mA(Max)                                                                                                                             | 100mA(working) | 5mA(standby)        |
|                           | Dimensions        | 65*61*37.5mm                                                                                                                           |                |                     |
|                           | Weight            | 35g(without cable)                                                                                                                     |                |                     |
|                           | Indication        | Buzzer&LED                                                                                                                             |                |                     |
| Environment Request       | Working Tem       | -20~60℃                                                                                                                                |                |                     |
|                           | Storage Tem       | -40~85℃                                                                                                                                |                |                     |
|                           | Humidity          | 5%-95%(Non-condensing)                                                                                                                 |                |                     |
|                           | Light Immunity    | 0~100,000Lux                                                                                                                           |                |                     |

## Application



Cabinet for logistics



Turnstile



Vending machine



Self order machine(KFC)



BUS ticket