



## Barcode Scan Engine

E5

### Feature

Adopt the self-developed 6<sup>th</sup> generation **UIMG®** core decoding technology, with excellent decoding capabilities for various 1D/2D barcodes.

- Adaptable to low brightness and each kind of large amount of filmed on-screen barcodes.
- USB or TTL-232 are available to supply with, to meet different kinds of application.

- Stand-up can be dismantled for smaller size, to meet the needs of the smaller size of embedding into the devices
- With core technology **NLDC**, decrease the operating consumption, to extend the lifetime of the device

### Scenarios:

POS device, tablet, computer PAD, Straight Scanner, self-service kiosk.

# E5 Barcode Scan Engine

|               |                        |                                                      |                                                                                                                                                                                                                              |  |  |  |
|---------------|------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Function      | Image Sensor           |                                                      | 640*480 CMOS                                                                                                                                                                                                                 |  |  |  |
|               | Illumination           |                                                      | White Light LED                                                                                                                                                                                                              |  |  |  |
|               | Aiming                 |                                                      | Red Light 625nm                                                                                                                                                                                                              |  |  |  |
|               | Symbolologies          | 2D                                                   | PDF417, QR Code, Micro QR, Data Matrix                                                                                                                                                                                       |  |  |  |
|               |                        | 1D                                                   | Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, AIM128, Plessey, MSI- |  |  |  |
|               | Precision*             |                                                      | ≥3mil                                                                                                                                                                                                                        |  |  |  |
|               | Depth of Field         | EAN13 (13mil)                                        | 65-350mm(Typical)                                                                                                                                                                                                            |  |  |  |
|               |                        | PDF417 (6.7mil)                                      | 50-125mm                                                                                                                                                                                                                     |  |  |  |
|               |                        | Code39 (5mil)                                        | 40-150mm                                                                                                                                                                                                                     |  |  |  |
|               |                        | Data Matrix (10mil)                                  | 45-120mm                                                                                                                                                                                                                     |  |  |  |
|               |                        | QR Code (15mil)                                      | 30-170mm                                                                                                                                                                                                                     |  |  |  |
|               | Symbol Contrast        |                                                      | ≥25%                                                                                                                                                                                                                         |  |  |  |
|               | Sensitivity**          |                                                      | Tilt±60°, Skew±60°, Rotate 360°                                                                                                                                                                                              |  |  |  |
| Field Angle   |                        | Horizontal 42°, Vertical 31.5°                       |                                                                                                                                                                                                                              |  |  |  |
| Mechanical    | Interface              |                                                      | USB, TTL-232/RS232(Optional)                                                                                                                                                                                                 |  |  |  |
|               | Size(mm)               |                                                      | 38.5(W)×23.5(D)×19.6(H) (Max Value)                                                                                                                                                                                          |  |  |  |
| Electric      | Weight                 |                                                      | 1.2g                                                                                                                                                                                                                         |  |  |  |
|               | Voltage                |                                                      | 3.3 VDC±5%                                                                                                                                                                                                                   |  |  |  |
|               | Consumption            |                                                      | 452mW (Typical Value)                                                                                                                                                                                                        |  |  |  |
|               | Currency@3.3           | Operation Currency                                   | 138mA (Typical Value)                                                                                                                                                                                                        |  |  |  |
|               |                        | Idle Currency                                        | 11.8mA                                                                                                                                                                                                                       |  |  |  |
| Environmental | Operation Temperature  |                                                      | -20℃~+55℃                                                                                                                                                                                                                    |  |  |  |
|               | Storage Temperature    |                                                      | -40℃~+70℃                                                                                                                                                                                                                    |  |  |  |
|               | Operation Humidity     |                                                      | 5%~95% (Non-condensing)                                                                                                                                                                                                      |  |  |  |
|               | Environmental Lighting |                                                      | 0~100,000LUX                                                                                                                                                                                                                 |  |  |  |
| Certification |                        | FCC Part15 Class B,CE EMC Class B, RoHS2.0, IEC62471 |                                                                                                                                                                                                                              |  |  |  |
| Accessories   | Development Board      |                                                      | With trigger button and beeper, USB and RS-232 output                                                                                                                                                                        |  |  |  |
|               | Data Cable             | USB                                                  | USB cable, to connect with development board and info receiver host                                                                                                                                                          |  |  |  |
|               |                        | RS-232                                               | RS232 cable, to connect with development board and info receiver host                                                                                                                                                        |  |  |  |
|               | Power Adaptor          |                                                      | 5V Power adaptor, to assist “Power on” to development board                                                                                                                                                                  |  |  |  |

Test distance=(minimum depth of field + maximum)/2; temperature=23℃; environmental illumination=300 LUX light bulb, 2D: QR CODE; 10 Bytes; minimum barcode space width=15 mil; PCS=0.8;

\*Specification changes without previous notification\* V1.0



## Contact

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