iData J16

Faster, Farther and Stronger Hand-held Barcode Scanner

➢ **Strong identification and read functions for touch and scanning**

♦ It is mounted with the million-level global exposure industrial image sensor customized for the AIDC industry to satisfy the device service stability and reliability requirements in strict environments;

♦ The unique Soc NPU acceleration technology to enhance the time efficiency of data collection and improve users' task performance;

♦ The up-to-date SmartLight3.0 decoding algorithm has been optimized and calibrated with a library consisting of hundreds of thousands of barcode cases, making the barcode identification and read more accurately and quickly and allowing users to work accurately and at ease;

♦ It is suitable for all scenarios, e.g. industrial manufacture, logistics, transport, warehousing, medical care and retail and is available to read barcodes bent, folded, broken or smudgy;

➢ **Unique deep learning and multispectral technology**

♦ For scenarios where barcode quality is poorer, the J16 series can quickly create the optimal identification and read parameters under this scenario through the intelligent learning model and help users to improve their work efficiency more effectively;

♦ For blurry, broken, low-contract and other special barcodes, J16 series is equipped with the unique multispectral technology and can use the embedded intelligent algorithm to provide the optimal light source in a quick and targeted way through collecting the multispectral images in a unit of time domain, making the above-mentioned barcodes easy to read;

- For metal, glass, tile and other highly reflective materials, J16 series is equipped with an up-to-date optical design. The innovative polarized light solution addresses the overexposure, double image and other difficulties due to surface reflection, raising the device suitability in extreme scenarios;

➢ **Ergonomic design and high durability**

- The stream-lined handle grip design better suits the ergonomic requirements and improves users' use experience in high-intensity usage scenarios;

- The high-resilience button design can provide clear feedback and reduce hand stress, designed with a service life of over 5 million times of press;

- With the IP52 protection level equipped, it can bear repeated drop impact from a 1.8m high site to the concrete ground. The unavoidable drop and the destructive damages to the device should be prevented during daily high-intensity device service;

➢ **More humanized device service experience**

- Quick power on reduces the time for users to wait for a startup;

- The bright and sharp laser frame design is equipped with the DOE laser diffraction solution. It is manufactured in strict accordance with the industrial laser safety standard, ensuring both safety and reliability and relieving users' eyestrain in a more humanized way;

- The 90DB high decibel buzzer is adopted to suit noisy environments and the device can prompt scanning succeeded/failed automatically;

➢ **Simple and easy PSSA/MSSA remote management software allowing device use upon it is available**

- The device is equipped with the one-button batch setting function, device information acquisition and other MDM device management functions, providing user managers with the shortcut solution to manage several devices at a single site;

- Special functions more suitable for users' actual service scenarios are provided, facilitating user managers to manage device assets, etc.;

- The OTA device upgrading function is supported, so users can update firmware online and experience the current solution service of the J16 series devices;

- The device can assist users to better use the intelligent barcode learning functions and create barcode identification and read experts near users through barcode training, scenario settings, etc.;

Market application

Manufacture:

Inventory management

Statement management

In-warehouse management

Component tracing

Home appliance assembly

Automobile manufacture

Parts management

Electronic manufacture

Performance parameter

Image Sensor	1280*800 pixel
Light source	WHITE，RED，BLUE

Scan performance

Scanning accuracy	≥3.33mil
Scanning angle	Pitch：±60°; Deflection (skew)：±45°; Rotation (tilt): 360°
Angular Field of View	Horizontal: 44.3°, vertical: 28.4°, diagonal: 51°
Motion tolerance	13mil UPC 2m/s (up to 8m/s in high motion fault tolerance mode)
Minimum reading contrast	15%

Physical parameter

Size	174.82mm（H）*85.3mm（W）*64.48mm（D）
Weight	153g
Operating Voltage	4.5V~5.5V（DC）
Current value	175mA (typical value), 460mA (maximum value)
Interface	USB-HID，USB-CDC，RS232
Prompts	Vibration prompt/LED prompt
Shell material	PC+ABS

Operating Environment

Working temperature	0℃~50℃
Storage temperature	-20℃~70℃
Humidity	5% ~ 95% (no condensation)
Drop specification	1.8m concrete floor dropped several times
Protection level	IP52
Ambient lighting	0Lux~100000Lux
Electrostatic	±15KV (air discharge)，±8KV (contact discharge)

protection	

Relevant regulation

Electrical Safety	IEC 60950
Environmental parameters	RoHS directive 2011/65/EU，GB/T 26572
LED safety	IEC 62471:2006
EMI/RFI	FCC Part 15 Class B，EN 55032:2015，EN 55035:2017

Decoding range

Decoding range	XD (Extra High Density)	HD (High Density)	SR (Standard Distance)
3.33mil Code 128	0.5cm~3cm (0.016 inch to 0.1 inch)	2.5cm~14cm (0.98 inch to 5.51 inch)	9.5cm~16.0cm (3.74 inch to 6.30 inch)
10.83mil Code 128	0.5cm~5cm (0.016 inch to 0.16 inch)	0.5cm~19cm (0.2 inch to 7.48 inch)	2.0cm~50.0cm (0.79 inch to 19.69 inch)
5.83mil QR Code	/	3.5cm~8.5cm (1.38inch to 3.35 inch)	11.0cm~13.5cm (4.33 inch to 5.31 inch)
20.83mil QR Code	/	1.5cm~21cm (0.59 inch to 8.27 inch)	4.0cm~95.0cm (1.57 inch to 37.4 inch)

Code system

1D	Codabar，Code 11，Code 128，Code 32，Code 39，Code 93，EAN 13，EAN 8，UPC-A，UPC-E，IATA 2 of 5，Interleaved 2 of 5，Matrix 2 of 5，Straight 2 of 5，MSI/Plessey，GS1 DataBar，etc
2D	Aztec，Data Matrix，MicroPDF 417，PDF 417，QR，Micro QR，Grid Matrix，etc

Accessories

Standard accessories	Data cable*1, user manual*1
Optional accessories	Bracket, serial line