

Specification

Basic information		
Product Category	AIDC Wearable Scanner	
Model#	XR700	
Certificates	<ul style="list-style-type: none"> ■ UN38.3, MSDS, Sea and Air Freight Certificates ■ CE ■ ROHS ■ WEEE 	
Domestic Explosion-proof Certificate	N/A	
Free Fall/Drop Specification	1.8 meter, MIL-STD 810G	
IP Protection Level/Sealing	IP68 tri-proof (waterproof, dustproof, shockproof), IK07 certification, enhanced artificial sweat and salt spray testing	
Tumble test	300°500 tumbles @ 1.6 ft./0.5 m, Slight dip with increased tightening ≥4000 times	
Operating Temperature	-20~55°C	
Storage temperature	-40~70°C	
Charging temperature	0°C to 45°C	
Relative Humidity	5%~95% (non-condensing)	
ESD	Air ±12kV, Contact ±8kV	
Exterior Design		
Dimensions (W x H x D)	Main: 37*27*13mm (Reference dimensions, excluding local protrusions; subject to final design specifications.)	
Weight	Main: 20g (Estimated weight includes batteries; subject to final design specifications.)	
Color	Two-colour injection moulding supports customisation	
Material	Engineering plastics	
Top of the Main Unit	Scan engine	
Front of the Main Unit	Display + LED light	
Left Side of the Main Unit	Scan button	
Right Side of the Main Unit	Scan button	
Bottom of the Main Unit	Chargin PIN + button PIN	
Back of the Main Unit	/	
Reference renderings (actual product may vary)		
Operation System		
OS	RTOS	Large-font, large-icon UI with low-power consumption optimisation
Languages support	Graphical	
Master controller SOC	NORDIC nRF52832 BLE 5.3, Support BLUETOOTH MESH, support NFC 512/256KB Flash, 64/32KB RAM, 64MHz/32KHz External 256Mbit memory supports local storage and upload of scanned data.	64MHz Arm Cortex-M4 HIGH SPEED SPI, 2xTWI/SPI, SPI, UART, 3PWM, PDM, I2S, ADC, COMPARATOR, TEMPERATURE SENSOR CE, FCC CERTIFICATIONS DEVELOPMENT KITS: PACKAGES: 6*6mm QFN48(32 GPIOs), 3*3.2mm WLCSP50(32 GPIOs)
Display		
Screen Size	0.84 inch PMOLED, resolution 128×64, Black background with white text (monochrome)	typ.200cd/m ² , Interfaces: Parallel port, 4-SPI, I2C, 22-pin connector, Driver IC: SP5040
Touch Panel	Not supported	
Cover plate bonding	Tempered glass cover plate with anti-fingerprint coating	0.7mm 2D, frame sticker
Sensors		
Standard	/	
Optional	/	
Interfaces		
USB	/	
Expansion Interface	2PIN button	
Charging via cradle	2PIN	Maximum charging current IC
Wireless funtion/Communication		
Bluetooth®	2.4GHz Frequency	
NFC	Frequency 13.56Mhz Support: ISO14443A/B, ISO15693 standard	NFC tag, Front-facing for Bluetooth pairing and clocking in
Wireless charging	Not supported	
Accessibility features/Indicator Type		
KEY	Light touch buttons, supporting glove mode	Tap once: Scan QR code Press and hold one side for 5 seconds: Power on/off Press and hold both sides simultaneously for 5 seconds: Glove mode toggle
Display	Supports black background with white text at 128×64 resolution	Auto-screen off after 60 seconds of inactivity Power on/off logo Status icons: Battery level, Bluetooth connection indicator, Date and time, Scan successful, Scan failed, Settings status Scan successful: Barcode type, Number of barcodes, Barcode content
LED	Supports red, green and blue tri-colour LEDs	Red light steady: Below 30% battery level Red light slow flash: Below 10% battery level; automatic shutdown at 5% Green light flash once: Power on, successful QR code scan Red and green light flash alternately for 3 seconds: QR code scan failed Blue light flash once: Bluetooth connection successful
Audio	Supports, built-in buzzer	One beep: Power on, power off, fully charged, Bluetooth connection successful, QR code scan successful Three beeps: QR code scan failed, Bluetooth connection disconnected
Vibrator	Support, built-in motor	Vibrate once: Power on, power off, successful scan Vibrate three times: Scan failed
Power Source		
Main battery	Over 200mAh (4.4V) built-in non-removable lithium polymer cell, supporting OV charging	
Charging current	Maximum charging current IC	≤1.5h Fully charged
Standby time	TBD	
Working Hours	TBD	
Functional device		
Scan Engine	Standard configuration: NLS-NI hardware-based professional barcode scanning module (standard range) Sensor: 640×480 CMOS Illumination: Soft white LED Focusing: Red light 625nm Identification Code System 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-Plessey, etc.	Scan precision*: ≥3mil (TBD) Contrast*: ≥25%(TBD) Scan field: Horizontal 42°, vertical 31.5° Electric current@3.3VDC: work 132mA Certification: FCC Part15 Class B, CE EMC Class B *Test condition:Operating Temperature=23°C;Ambient illuminance = 300 lux incandescent lamp *Specifications are subject to change without prior notice.*
Bluetooth gateway	Standard Bluetooth Gateway Charging Dock: 70 × 54 × 22/26 mm Front QR code label, supports Z200 scanning to connect to base station Bluetooth Bluetooth module: Supports one-to-many Z200 Bluetooth connections, data uploaded via USB interface TYPE-C interface: Supports USB charging and serial data transmission, compatible with 5V~1A adapters, also compatible with 5V~2A and standard commercial adapters Bulk charging port: 5.5mm dual DC female sockets, supports parallel bulk charging via docking station Output port: 2-pin POGO PIN, supports Z200 charging at 5V~200mAh Indicator lights: Red, green, blue Buzzer Drainage hole Magnetic counterweight (adheres to ferrous shelves or surfaces)	Red light steady: Powered on / Bluetooth not connected or connection unsuccessful Blue light steady: Bluetooth connection successful, buzzer emits one beep Green light steady: Fully charged, charging stopped Green light flashing: Data upload in progress Red and green flashing: Data upload failed, buzzer emits three beeps The base unit's sound switch can be configured via the WeChat mini-programme or by scanning the QR code on the printed leaflet.
package&Accessories		
The standard package contents	<ul style="list-style-type: none"> ■ Bluetooth Gateway Charging Dock (with DC-to-DC adapter, supports daisy-chained parallel charging) ■ Type-C Data Cable ■ Finger Loop (Large, Medium, Small) 	
Packaging material structure	<ul style="list-style-type: none"> ■ Logo Nameplate ■ Cover plate protective film 	
Package type	■ Flue box+ Sleeve	Leaflet, Service Guide, Protective Pouch
Accessories	<ul style="list-style-type: none"> <input type="checkbox"/> 5V~1A charger <input type="checkbox"/> 5V~2A charger <input type="checkbox"/> Z310 Smart Wearable Terminal 	

*Dimensions and weight may vary depending on configuration and manufacturing processes.

*The accuracy of the above technical specifications is current as of the product's release date. All rights reserved.