

AIDC GO HX-27

Keypad barcode handheld

Detailed technical reference

Detailed technical tables and diagrams are retained in this reference.

Configuration, accessories and regional options are confirmed through AIDC GO.



AIDC GO HX-27 | Technical reference

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System Configuration

Processor	Octa-core 2.0GHz high-performance processor
Operating System	Android 12.0 (GMS)
Memory (ROM+RAM)	64GB + 4GB (standard)
SIM	Dual Nano SIM card
(eSIM: Not supported)	WIFI ONLY version: No SIM, not supported
Expansion Slot	Micro SD card (up to 512 GB)
Display Screen	4-inch, resolution: 800*480 pixels IPS HD Retina Screen
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch
Camera	13 megapixels of rear camera, support auto-focus/PDAF, 5 megapixels of front camera
Flashlight	800mA flashlight
Keypad	Version A: Front key*29, side scan key *2, side PTT key *1, side ±volume key *2 Version B: Front key*38, side scan key *2, side PTT key *1, side ±volume key *2
Battery	3.85V lithium battery, with 6700mAh, detachable, backup-battery support; Execution standard: GB31241-2022
Audio	Built-in dual microphone (noise-canceling microphone)
Charging Method	Type-C charging and pin port charging, support 9V/2A, 5V/3A fast charging
Reminder	High-power speaker/3 sides scan LED reminder/Vibration reminder/Charging LED reminder
Vibrating Motor	Built-in vibrating motor
Sensors	G-sensor/ Proximity sensor/Light sensor
Intercom Function (Optional)	Support one-button PTT calls

Structure Parameter

Dimension (L*W*D)	205mm*76mm*31mm
Weight	440g (including the battery)

Environmental Parameter

Working Temperature	-20°C - 55°C *Do not charge under low temperature conditions
Storage Temperature	-40°C - 70°C
Humidity	0 - 95% (no moisture condensation)
Drop Specification	Multiple drops to concrete floor from the height of 1.5m (without protective case) Multiple drops to concrete floor from the height of 1.8m (with protective case)
Roller Drop Specification	1000 times of roller drops from a height of 0.5 meter
Ingress Protection	IP68
ESD Protection	±15KV (air discharge), ±8KV (contact discharge)

Communication Interface

USB Interface	Type-C (with headset function) *1
OTG Interface	Support

Scanning Engine

Barcode Type	It can scan one-dimensional / two-dimensional barcodes
Scanning Accuracy	≥3.33mil
Scanning Angle	Pitch: ±60°; Skew: ±45°; Tilt: 360°
View Angle	Horizontal: 44.3°, Vertical: 28.4°, Diagonal: 51°
Motion Error Tolerance	8m/s

Communication Transmission

WWAN (Network Frequency)	Chinese & Eurasian Version 2G: B2/B3/B5/B8 3G: WCDMA:B1/B5/B8, CDMA BC0, TD-SCDMA:B34/B39 4G: FDD-LTE:B1/B3/B5/B7/B8/B20, TDD-LTE:B34/B38/B39/B40/B41 WIFI ONLY version: Not supported
WWAN (Data Service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO/WCDMA/TD-SCDMA/TDD-LTE/FDD-LTE WIFI ONLY version: Not supported
WLAN Function	Wi-Fi 802.11a/b/g/n/r/ac (2.4G + 5G dual-band Wi-Fi), support Wi-Fi 5G PA amplifier
Bluetooth	Bluetooth 5.0, support BLE
GPS	GPS/AGPS/Beidou/Galileo/GLONASS/QZSS

NFC (Standard)

Working Frequency	13.56 MHz
Reading Distance	Within 60 mm
Communication Protocol	ISO14443A/14443B/15693

Development Support

Programming Language	Java
Development API	iScan API (Scanning Development Kits), Device API (Device Management/Configuration Development Kits), Android Standard Interface
Development Tool	Eclipse/Android Studio

Accessories

Standard Accessories	USB cable*1, hand strap *1, power adapter*1,device-back strap*1, battery*1
Optional Accessories	Power adapter(fast charging), 2-in-1 charging cradle, multifunctional 5-slot base, single charging cradle, bottom charger, 4-slot charging cradle, 4-slot battery charging cradle, pistol grip, protective case

AIDC GO | sales@aidcgo.com | aidcgo.com

Product configuration, accessories and regional options are confirmed per project.

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Configuration, accessories and regional options are confirmed per project.

Each product comes with a pack of practical and cost-effective accessories

USB Cable

Type-C to USB cable, 1m in length, support charging and data transmission



CHA-USBC-GNR

Hand Strap

Wear on your wrist to carry the device, avoid accidental drops, and assure the safety of equipment



MNT-HS-GNR

Device-back Strap

Attach on the device back to help you hold the device easily and firmly, avoid accidental drops



Battery

6700mAh, detachable design.
ps: every product comes with 1 unit, you can purchase extra unit



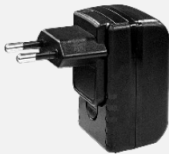
Power Adapter

Input voltage 100-240V, output 5V2A. Support plug types of China/Europe/UK/US/Australia, match with CHA-USBC-GNR

ps: you may have one of the power adapters



CHA-PWAD-GNR-5V2A-CN



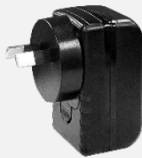
CHA-PWAD-GNR-5V2A-EU



CHA-PWAD-GNR-5V2A-UK



CHA-PWAD-GNR-5V2A-US



CHA-PWAD-GNR-5V2A-AU

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Improve management efficiency of devices and operational level of enterprises

Power Adapter (fast-charging)

Input voltage 100-240V, output 9V2A. Support plug types of China/Europe/UK/US/Australia, match with CHA-USBC-GNR

ps: choose one that fits your local standard



CHA-PWAD-GNR-9V2A-EU

Battery

6700mAh, detachable design.

ps: every product comes with 1 unit, you can purchase extra unit



2-in-1 Charging Cradle

Support maximum charging of 1 main unit+1 battery at the same time. Match with multifunctional 5-slot base. Support plug types of China/Europe/UK/US/Australia



Multifunctional 5-slot Base

Support maximum charging of 5 units of 2-in-1 charging cradle at the same time. Support plug types of China/Europe/UK/US/Australia



CHA-MCRD5S-GNR

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Bottom Charger

Bottom charger for the main unit, support charging for 1 device.
USB-A port, can connect with CHA-PWAD-GNR-5V2A-XX accessory



Single Charging Cradle

Support charging for 1 main unit. Support plug types of China/Europe/UK/US/Australia
ps: you may have one of the power adapters



4-slot Charging Cradle

Support maximum charging of 4 main units at the same time.
Support plug types of China/Europe/UK/US/Australia



4-slot Battery Charging Cradle

Support maximum charging of 4 batteries at the same time.
Support plug types of China/Europe/UK/US/Australia
ps: you may have one of the power adapters



Improve device portability and comfort for users, boost working efficiency

Pistol Grip

Pistol grip for main unit. Execute barcode scanning by pressing the grip trigger. Only those main units with pin port on the back are compatible



Accessories Guide

Lower risks of malfunction during usage, extend lifespan of devices

Protective Case

Protective case for the main unit. It can prevent the malfunction of main unit in case there's any accidental drops or impact during usage

