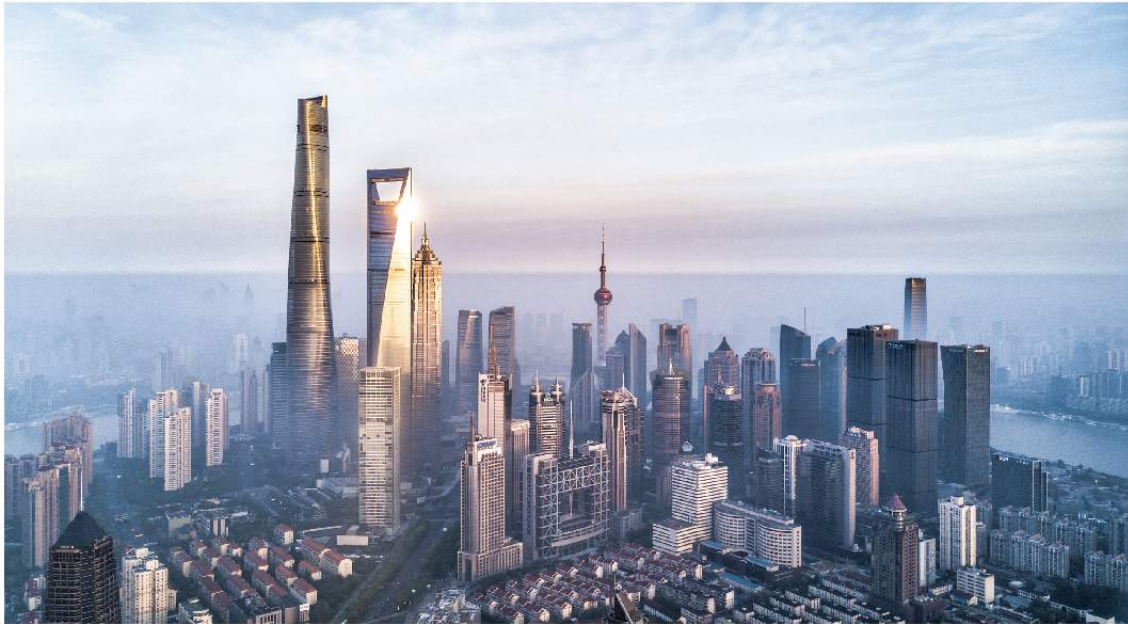# ACTION

HANDHELD TERMINAL

Product Manual

Action Prowave Technology Co., Ltd.

COMPANY PROFILE

Founded in 2010, Action Prowave Technology Co., Ltd. has been recognized as a "Specialized, Refined, Unique, and New" Enterprise, "High-tech Enterprise" ,and "Private Technology Enterprise in Jiangsu Province" .Specializing in data capture equipment, our core team originates from industry giants like Huawei and ZTE and boasts over 20 years of experience in mobile terminal R&D.

We are proud to be one of the earliest Independent Design Houses (IDH) authorized by Qualcomm for Android smart handheld terminals. Having achieved a cumulative shipment of over 5 million units, we have extended our product deployment services to well-known domestic and international companies, including Honeywell and Newland. Our diverse customer base spans various sectors such as logistics, retail, healthcare, and intelligent manufacturing.

Dedicated to technological innovation and the pursuit of excellence, we firmly believe that high-quality products and professional services are the keys to sustained enterprise development. Under the banner of exploration, innovation, and excellence, Action Prowave Technology Co., Ltd. is committed to collaborating with industries across the spectrum to jointly promote digital transformation and intelligent evolution.

AW100

ULTRA-COMPACT PDA

1 Ultra-compact PDA, with a size and weight reduction of over 30% compared to conventional PDAs, providing comfortable and flexible usability for women as well.

2 Drop resistance up to 2.5 meters.

3 Equipped with a high-capacity 5000mAh lithium battery, providing a battery life of over 32 hours, suitable for automotive-grade applications.

FC · CCC · CE · RoHS

System Configuration

CPU	Qualcomm QM215
OS	Android 9
ROM+RAM	16GB+2GB /64GB+4GB
Expansion Slots	Micro SD Card
SIM	Nano-SIM Card
Display	2.8 inches IPS, 640*480
Touchscreen	Industrial–grade Capacitive Screen
Camera	Rear 8M camera , FixedFocus , Flashlight
Keyboard	29keys , Includ2 Scankeys , 1 Power Key
Speaker	1.2W High–power Speaker
Notification	Vibration/LED/Sounds
Vibration Motor	Built–in Motor
Battery	3.6V 4700mAh

Operating Environment

ESD	+15KV (air discharge),+8KV (contact discharge)
Protection Ratin	IP65
Drop Height	Multiple drops from 1.5 meters,with protective cover for multiple drops from 1.8 meters
Storage Temperature	-40C-60C(Including battery)
Operating Temperature	-20C-60C

Structural Parameters

Dimensions	173mm*63mm*33mm
Weight	249g

I/O

USB	1个(Type-C interface) support OTG
Charging Port	1个

Peripheral Devices and Accessories

Standard Accessories	Power Adapter, USB Data Cable, Hand Strap
Optional Accessories	Battery Charger, Wrist Strap, or Protective Case

Transmission

WLAN	Wi-Fi 802.11a/b/g/n/r/ac (DUAL–BAND : 2.4G+5G)5G PA AMPLIFY
RF	DOMESTIC ALL NETWORK COMMUNICATION: CDMA 1X/EVDO: BC0; GSM: 900,850,1800,1900MHz; WCDMA: B1/B5/B8 TDD-LTE: B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B8 OVERSEAS FREQUENCY BAND： CDMA 1X/EVDO: BC0; GSM: 900,850,1800,1900MHz; WCDMA: B1/B5/B8 TDD-LTE: B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B8
Bluetooth	BT 4.2 LE
GPS	Support GPS/AGPS/Glonass/ Beidou Target SNR≥39dB（Signal level -130dBm)
NFC	13.56MHz, readable range within 30mm Agreement ISO14443A/14443B/15693

2D Image Scanning Engine

Scanning Accuracy	≥3mil
Viewpoint	360°
Range	Tilt+60˚Deflection+60˚Rotation+360˚
Laser Safety Class	Class II
Recognition rate	20 Order/S
Light Source System	White Light Illumination　Laser Targeting

4G · 3G · WiFi · Bluetooth · NFC

ACTION

AW300

INDUSTRIAL PDA

1 Ultra-comfortable ergonomic design, pro-viding maximum comfort for extended use.

2 It maintains its performance as new regard-less of changes in environment and time.

3 With a drop resistance of up to 2.8 meters and an IP67 protection rating

4 Equipped with WiFi gain technology and in-telligent roaming protocols, allowing it to navigate complex WiFi environments with ease.

System Configuration

CPU	Qualcomm Snapdragon Platform
OS	Android 9
ROM+RAM	16GB ROM+2GB RAM/64GB+4GB
Expansion Slots	Micro SD slot
Display	3.5 inches, resolution 800 * 480 IPS
Touchscreen	Industrial grade capacitive screen
Camera	13 million pixels, autofocus, support for PDAF
Keypad Backlight	white
Keyboard	Crystal keyboard
Microphone	Single main microphone
Horn	2W high-power horn
Scan Prompt	Scan prompt light/audio prompt/vibration prompt
Charging Reminder	Tricolor lamp
Vibration Reminder	Built-in motor
Anti Condensation Heating Indication	support
G-sensor	Supports 3 axes
Light Sensor	support
Battery	4900mAh, 3.7V
Charging	2A fast charging, bottom 6pin charging terminal
Input Output	USB2.0 Bottom 6 Pogo Pin
Otg Interface	support
Internal Interface	1 SIM card, 1 TF card

Transmission

WLAN	Wi-Fi 802.11a/b/g/n/r/ac
Bluetooth	DOMESTIC ALL NETWORK COMMUNICATION: CDMA 1X/EVDO: BC0;
	GSM: 900,850,1800,1900MHz;
	WCDMA: B1/B5/B8
	TDD-LTE: B38/B39/B40/B41
	FDD-LTE: B1/B3/B5/B8
	OVERSEAS FREQUENCY BAND:
RF	GSM: 900,850,1800,1900MHz;
	WCDMA: B1/B2/B4/B5/B6/B8/B9/B19
	TDD-LTE: B38/B39/B40/B41
	FDD-LTE: B1/B3/B5/B8
Bluetooth	BT 4.2 LE
GPS	Supports GPS/AGPS/Glonass/ Beidou Target SNR≥39dB
NFC	13.56MHz, with a readable range of 3cm Protocol ISO14443A/14443B/15693

Environmental parameters

ESD	+15KV (air discharge),+8KV (contact discharge)
Protection Ratin	IP67
Drop Height	Multiple cement floor drops of 2.0 meters

Structural Parameters

Dimensions	66mm*195mm*38mm
Weight	330g

2D Image Scanning Engine

Scanning Accuracy	≥3mil
Viewpoint	360°
Range	Tilt+60 ° Deflection+60 ° Rotation+360 °
Laser Safety Class	Class II
Recognition rate	20 Order/S
Light Source System	White Light Illumination Laser Targeting

Peripheral Devices and Accessories

Standard Accessories	Power adapter,USB card clip cable,wrist strap,hand rope
Optional Accessories	Single battery charger, expansion handle

ACTION

AW300C

COLD CHAIN HEATING PDA

❶ A handheld terminal designed specifically for cold storage environments, capable of continuous use for over 15 hours at −18℃ and supports operation in extremely low temperature environments as low as −30℃

❷ Smart electric heating and condensate removal technology

❸ The core components have all undergone anti−condensation treatment. The scanning engine is equipped with optimized algorithms for frost, moisture, damage, and bubble bags, ensuring seamless and

FC CCC CE RoHS

System Configuration

CPU	Qualcomm Snapdragon 8-core 1.8GHz
OS	Android 9.0
ROM+RAM	32 GB ROM+3GB RAM
Expansion Slots	Micro SD slot
Display	3.5 inches, resolution 800 * 480 IPS
Touchscreen	Industrial grade capacitive screen
Camera	13 million pixels, autofocus, support for PDAF
Keypad Backlight	white
Keyboard	Crystal keyboard
Microphone	Single main microphone
Horn	2W high-power horn
Scan Prompt	Scan prompt light/audio prompt/vibration prompt
Charging Reminder	Tricolor lamp
Vibration Reminder	Built-in motor
Anti Condensation Heating Indication	support
G-sensor	Supports 3 axes
Light Sensor	support
Battery	4900mAh, 3.7V
Charging	2A fast charging, bottom 6pin charging terminal
Input Output	USB2.0 Bottom 6 Pogo Pin
Otg Interface	support
internal Interface	1 SIM card, 1 TF card
anti-condensation	Heating defogging algorithm

Environmental parameters

ESD	+15KV (air discharge),+8KV (contact discharge)
Protection Ratin	IP67
Drop Height	Multiple cement floor drops of 2.0 meters

Structural Parameters

Dimensions	66mm*195mm*38mm
Weight	330g

Peripheral Devices and Accessories

Standard Accessories	Ac Adapter Usb Card Clip Cable, Wrist Strap
Optional Accessories	Quadruple charging

Transmission

WLAN	Wi-Fi 802.11a/b/g/n/r/ac
RF	DOMESTIC ALL NETWORK COMMUNICATION: CDMA 1X/EVDO: BCO; GSM: 900,850,1800,1900MHz; WCDMA: B1/B5/B8 TDD-LTE: B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B8
Bluetooth	BT 4.2 LE
GPS	Supports GPS/AGPS/Glonass/ Beidou Target SNR≥39dB
NFC	13.56MHz, with a readable range of 3cm Protocol ISO14443A/14443B/15693

2D Image Scanning Engine

Scanning Accuracy	≥3mil
Viewpoint	360°
Range	Tilt+60°Deflection+60°Rotation+360°
Laser Safety Class	Class II
Recognition rate	20 Order/S
Light Source System	White Light Illumination Laser Targeting

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ACTION

AW300DP

DPM CODE DEDICATED HANDHELD TERMINAL

1 World's first auto-focus barcode scanning engine, capable of detecting QR codes as small as 0.5mm x 0.5mm.

2 Native non-USB camera ensures information security for manufacturing industries.

3 Dedicated light source and algorithms for Direct Part Marking (DPM), enabling easy recognition of various materials and engraving techniques.

Stippling

Casting Surface

Parts Surface

Lines

Metal surface

Low Contrast

System Configuration

CPU	Qualcomm Snapdragon Platform
OS	Android 9
ROM+RAM	32GB ROM+3GB RAM
Display	3.5 inches, resolution 800 * 480
Touch Screen	Industrial grade capacitive screen
Keypad Backlight	white
Keyboard	Crystal keyboard
Microphone	Single main microphone
Horn	2W high-power horn
Scan Prompt	Scan prompt light/audio prompt/vibration
Charging Reminder	Tricolor lamp
Vibration Reminder	Built-in motor
Anti Condensation Heating Indication	support
G-sensor	Supports 3 axes
Light Sensor	support
Battery	4900mAh, 3.7V
Charging	2A fast charging, bottom 6pin charging end
Input Output	USB2.0 Bottom 6 Pogo Pin

Transmission

WLAN	Wi-Fi 802.11a/b/g/n/r/ac
Bluetooth	BT 4.2 LE
GPS	Supports GPS/AGPS/Glonass/ Beidou Target SNR≥39dB
NFC	13.56MHz, with a readable range of 3cm Protocol ISO14443A/14443B/15693

Environmental parameters

ESD	+15KV (air discharge),+8KV (contact discharge)
Protection Ratin	IP67
Drop Height	Multiple cement floor drops of 1.8 meters

Structural Parameters

Dimensions	66mm*195mm*45mm
Weight	330g

Peripheral Devices and Accessories

Standard Accessories	Power adapter, USB card clip cable, wrist strap, hand rope
Optional Accessories	Four connected charging charger, expansion handle

2D Image Scanning Engine

Scanning Accuracy	≥3mil
Viewpoint	360°
Range	Tilt+60 ° Deflection+60 ° Rotation+360 °
Laser Safety Class	Class II
Recognition rate	20 Order/S
Light Source System	DPM dedicated ring light source

4G 3G Wi Fi NFC

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AW400

LARGE SCREEN HANDHELD TERMINAL

1 Large–screen handheld terminal Equipped with OCR, batch scanning, and other special technologies.

2 4–inch large screen.

3 WiFi roaming with continuous connection, no dropouts, no packet loss,

FC CCC CE RoHS

System Configuration

CPU	Qualcomm SDM450
OS	Android 9.0
ROM+RAM	16GB ROM+2GB RAM/64GB+4GB
Expansion Slots	Micro SD slot
Display	4.0 inches, resolution 800 * 480
Touchscreen	Industrial grade capacitive screen
Camera	8 million pixels, autofocus, support for PDAF
Keypad Backlight	white
Keyboard	Power/Scan/Volume/Function/Number keys
Microphone	Single main microphone
Horn	15W high-power horn
Scan Prompt	Dual color scanning prompt (red and green)/audio prompt
Charging reminder	Bicolor lamp
G-SENSOR	Supports 3 axes
Light sensor	Not supported
battery	Potassium battery, 5000mAh, 3.8V
Battery hot switching	Not supported
charging	2A fast charging, bottom 2 pin charging terminal
Input output	USB2.0
OTG interface	support
Internal interface	1 SIM card, 1 TF card

Transmission

WLAN	Wi-Fi 802.11a/b/g/n/r/ac (Dual-band Wi-Fi: 2.4G+5G)	
RF	DOMESTIC ALL NETWORK COMMUNICATION: GSM: 900/1800 MHz WCDMA: B1/B5/B8 TDD-LTE: B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8 OVERSEAS FREQUENCY BAND: GSM: 900/1800 MHz WCDMA: B1/B5/B8 TDD-LTE: B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8	
Bluetooth	BT 4.2 LE	
GPS	Supports GPS/AGPS/Glonass/ Beidou Target SNR≥39dB (Signal level -130dBm)	
NFC	Optional	13.56MHz, with a readable range of 3cm Protocol ISO14443A/14443B/15693

Environmental parameters

ESD	+15KV (air discharge),+8KV (contact discharge)
Protection Ratin	IP65
Drop Height	Multiple cement floor drops of 1.5 meters

2D Image Scanning Engine

Scanning Accuracy	≥3mil
Viewpoint	360°
Range	Tilt+60 ° Deflection+60 ° Rotation+360 °
Laser Safety Class	Class II
Recognition rate	20 Order/S
Light Source System	White Light Illumination Laser Targeting

Structural Parameters

Dimensions	166.9*73*22.6(mm)
Weight	298 g

Peripheral Devices and Accessories

Standard Accessories	Power adapter, USB data cable, wrist strap
Optional Accessories	Single battery charger, whole machine charger, battery quad charger

🤖 | 4G | 3G | WI FI | 📡 | ✳ | NFC | 📷 | ▐▐▐ | ▣

ACTION

AW550

HIGH PRECISION FULL SCREEN PDA

1 5.5-inch full-screen display, powered by a Qualcomm octa-core industrial-grade processor.

2 supports OCR recognition, batch scanning, and also has the capability to scan DPM codes ·Goods scanning is just that simple.

3 A slim body with a thickness of 14mm and weighing less than 260 grams, featuring a 5000mAh high-capacity automotive-grade lithium battery. It has a drop resistance of up to 1.5 meters and is IP67 industrial-grade protected.

FC | CCC | CE | RoHS

System Configuration

Product Model	AW550
Overall Size	152*74*14mm
Weight	260g
Keys	Power button, scan button, volume button, PTT button
Battery	5000mAh
Display Screen	5.5 inches, resolution 1440 * 720
Touch Screen	Five point touch Corning third-generation cover plate
Wet Hand Operation	support
Wearing Gloves To Touch	support
Sensor	Gravity, gyroscope, geomagnetism, light distance
Prompt	LED prompt, audio prompt, vibration prompt
Voice	Horn: 1.5W * lpcs; Microphone: noise reduction silicon microphone * 2pcs
Card Slot	Two out of three: NANO SIM card+NANO SIM card/NANO SIM card+TF card
Communication Interface	Type C

performance parameter

CPU	Qualcomm 8-core, main frequency 2.0GHz
ROM+RAM	64GB+4GB

Environmental parameters

Drop Height	Multiple cement floor drops of 1.5 meters
Protection Ratin	IP67
ESD	+15KV (air discharge),+8KV (contact discharge)

Camera

Rear camera	13 Million, Autofocus, Support For Pdaf
Flash	1a High Flash
front camera	5 Million

Transmission

WLAN	Wi-Fi 802.11a/b/g/n/ac Dual-band Wi-Fi: 2.4G+5G)
WWAN	GSM850/900/1800/1900 WCDMA:B1/B2/B5/B8 FDD-LTE:B1/B2/B3/B5/B7/B8/B20; TDD-LTE:B34/B38/B39/B40/B41
蓝牙	BT5.0+BLE
GPS	Supports GPS, A-GPS, Beidou, Galileo, and GLONASS support high-precision positioning modules, L1/L5 dual frequency
NFC	3.56MHz， Supports MIFARE, ISO14443A/B, and ISO15693 protocols; Support MIFARE, FeliCa, second-generation ID card recognition

2D Image Scanning Engine

Scanning Accuracy	≥3mil
Viewpoint	360°
Range	Tilt ± 60 °, deflection ± 60 °, horizontal: 44.3 °; Vertical: 28.4 °; Focusing: 51
Laser Safety Class	Class II
运动容差	6m/s
Light Source System	Laser cross aiming, amber LED uniform fill light

System

OS	Android 11.0

Peripheral Devices and Accessories

Standard Accessories	Power adapter, USB data cable, wrist strap
Optional Accessories	Single battery charger,whole machine charger,battery quad charger

4G | 3G | WiFi | NFC