



# ALR-H460

## ANDROID PORTABLE RUGGEDIZED COMPUTER FOR DATA COLLECTION

The Alien ALR-H460 is the ultimate RFID handheld device, featuring unsurpassed data processing capability, memory, ergonomics, and affordability, in one compact package. It is feature-rich, and combines best-in-class ease of use and integration tools with a powerful RFID engine, enabling exceptional performance in the most demanding of scan environments and applications.

### FEATURES

- ETSI 865–868 MHz or FCC 902–928 MHz
- ERP 2W / EIRP 3.3W
- 2D imager supporting all major 1D / 2D barcodes
- 13 MP Auto-focus camera with flash
- **Ergonomic** design provides superior user comfort and use
- Supports Wi-Fi, Bluetooth and 4G cellular connectivity
- **Robust** IP65 sealing for dust and water resistance
- **Prolonged usage** enabled by built-in 8,000 mAh Li-Po rechargeable battery
- Android 6.0 OS

### APPLICATIONS

- Retail
- Warehouse
- Work in Progress
- Transportation
- Missing item location



Benefit	Enabled By:	What does this mean to me?
Ease of Use	<ul style="list-style-type: none"><li>• <b>Large 5.2" 1920x1080 resolution display</b></li><li>• <b>High capacity</b> lithium-polymer battery</li><li>• Open source Android software development</li></ul>	<ul style="list-style-type: none"><li>• Simplifies data input</li><li>• All day usage without recharging</li><li>• Easy to provide custom applications</li></ul>
High Performance	<ul style="list-style-type: none"><li>• <b>Unique high-performance, high gain antenna</b></li><li>• Cortex-A53 Quad-Core 1.45 GHz CPU</li><li>• Android 6.0 Operating System</li></ul>	<ul style="list-style-type: none"><li>• Superior read range</li><li>• Fast data collection &amp; processing</li><li>• Proven Android speed &amp; agility</li></ul>
A feature-rich handheld	<ul style="list-style-type: none"><li>• <b>WiFi 802.11 a/b/g/n dual-band</b></li><li>• <b>4G</b> cellular built in</li><li>• <b>Bluetooth 4.0 BLE</b></li><li>• <b>13MP</b> Auto-focus camera with flash</li><li>• <b>GPS</b></li></ul>	<ul style="list-style-type: none"><li>• Wireless simplicity</li><li>• Always connected</li><li>• Allows connection to corporate networks</li></ul>
Robust Design	<ul style="list-style-type: none"><li>• Dust and water ingress protection (<b>IP64</b>)</li><li>• Solid drop tested design (<b>1.5 m/4.9 ft</b>)</li></ul>	<ul style="list-style-type: none"><li>• Shock-resistant rubber seals used to ensure durability giving full IP64 water/dust proofing and 1.0M/3ft drop qualification</li></ul>



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High Performance, Easy to Use, Easy to Manage, Easy to Deploy

Fully featured and ready to use out of the box, ALR-H460 comes equipped with a 1D / 2D bar code scanner and WiFi connectivity for ease of connection to your corporate network. A microSD memory expansion slot is included for up to 128 GB additional local storage. In addition, a 13 MP Auto-focus camera with flash adds on-the-spot ability to photograph and add image to an asset data record.

Features included are:

- 1D and 2D bar code reader
- Bluetooth/Wi-Fi
- GPS (for location applications)
- 4G cellular connectivity for use beyond corporate WiFi areas
- 13MP Auto-focus camera with flash
- Speaker
- 2 Microphones
- Light sensors, proximity sensors and G-sensors
- Micro-SD expansion slot



All units are offered in regional frequency options including "US" and "Europe"

Specifications	ALR-H460
RFID Specification	EPC C1 GEN 2 / ISO18000-6C
RFID Power	1W (+5dBm to +30dBm)
Antenna	1dBiL / 4 dBiC (Circular)
Barcode	2-D bar code (752 x 480 pixels)
Camera	13 MP Auto-focus color camera with built-in flash
WLAN	Wireless WLAN 802.11 a/b/g/n, 2.4/5 GHz dual-band internal antenna
WWAN	WWAN (Europe) (2G: 850/900/1800/1900, 3G : 850/900/1900/2100, 4G: B1, B3, B5, B7, B8, B20, B40), WWAN (America) (2G : 850/900/1800/1900, 3G : 850/900/1700/1900, 4G : B2, B4, B7, B12, B17)
WPAN	Bluetooth 4.0 BLE
Location Services	GPS (embedded A-GPS)
Communications	USB 2.0 Type C, OTG
Operating System	Android 6.0
Display	5.2" FHD 1920x1080, Corning Gorilla Glass
CPU	Cortex-A53 1.45GHz quad-core
Memory	2GB RAM / 16GB Flash
Memory Expansion	MicroSD (128 GB Max)
Battery (lithium polymer)	8000 mAh internal
Expansion Slot	1 Micro SD slot, 1 SIM slot



Physical Characteristics	
Ingress Protection	IP64
ESD	Contact ± 4KV / ± Air 8KV
Humidity	5-95% RH non-condensing
Operating Temp	-20°C to 50°C / -4°F to 122°F
Storage Temp	-40°C to 70°C / -40°F to 158°F
Weight	654 g / 23.07 oz
Dimensions (w/ pistol grip)	7" (L) x 3.4" (W) x 5.7" (H) 178 mm (L) x 86.2 mm (W) x 146 mm (H)
Drop	1 meter / 3.28 feet

Model Number	Countries	Frequency	Transmit Channels	Channel Spacing	RF Power	Compliance Certification
ALR-H460	USA	902 - 928 MHz	50	500 KHz	1 Watt	Emissions: FCC Part 15 Safety: EN 60950-1, UN 38.3
ALR-H460-EMA	Europe	865.6 - 867.6 MHz	4	600 KHz	1 Watt	Radio : 2014 / 53 / EU (RED), Safety : EN 60950-1





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The following accessories are included in the ALR-H460 package (power adapter is region specific)  
Replacements and additions may be purchased separately using the order numbers indicated below.

Accessories Included	
Ordering Information	Description
ALX-720	ALR-H460 Pistol Grip
ALX-724	ALR-H460 Charging Dock
ALX-725	ALR-H460 USB Cable
ALX-726-1	ALR-H460 Power Adapter US (In US kit ALR-H460 only)
ALX-726-2	ALR-H460 Power Adapter Europe (for EU customers only)
ALX-726-3	ALR-H460 Power Adapter UK (for UK customers only)



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HANDLING PRECAUTIONS Observe standard handling practices to minimize ESD.

DISCLAIMER Application recommendations are guidelines only - actual results may vary and should be confirmed. This is a general purpose product not designed or intended for any specific application.

This product is covered by one or more of the following U.S. patents: 7716208, 7716160, 7688206, 7671720, 7659822, 7619531, 7615479, 7598867, 7580378, 7576656, 7562083, 7561221, 7559486, 7559131, 7554451, 7411503, 7385284, 7377445, 7364084, 7353598, 7342460, 7324061, 7321159, 7301458, 7295114, 7288432, 7265675, 7262686, 7215249, 7214569, 7199527, 7193504, 7173528, 7172910, 7172789, 7141176, 7113250, 7101502, 7080444, 7070851, 7068224, 7046328, 6998644, 6988667, 6985361, 6980184, 6970219, 6952157. Other patents pending.

This product is licensed under patents of Round Rock Research, LLC, for use solely with UHF RFID Readers (such as Alien reader products) that are licensed under an agreement with Round Rock Research, LLC.



Alien Technology  
845 Embedded Way.  
San Jose, CA 95138  
www.alientechnology.com