



# 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

- 902–928 MHz Operation
- 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** IP64 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>1.0 m/3.28 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 1.0 M/3.28 ft drop qualification</li> </ul>

\*4G coverage limited. Contact Alien Technology for details



## Android Portable Ruggedized Computer For Data Collection

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

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 (1280 x 800 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 (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 / A-GPS
Communications	USB 2.0 Type C, OTG (Direct attach to H460)
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	Sim 1 (micro) and Sim 2 (nano) or microSD

\*4G coverage limited. Contact Alien Technology for details





<b>Physical Characteristics</b>	
Ingress Protection	IP64
ESD	Contact ± 6KV / Air ± 15KV
Humidity	5-95% RH non-condensing
Operating Temp	-10°C to 50°C / 14°F to 122°F
Storage Temp	-40°C to 70°C / -40°F to 158°F
Weight	520 g / 18.4 oz
Dimensions (w/ pistol grip)	7" (L) x 3.4" (W) x 5.7" (H) 178 mm (L) x 86 mm (W) x 146 mm (H)
Drop	1.0 meter / 3.28 feet

<b>Model Number</b>	<b>Countries</b>	<b>Frequency</b>	<b>Transmit Channels</b>	<b>Channel Spacing</b>	<b>RF Power</b>	<b>Compliance Certification</b>
ALR-H460	USA	902 - 928 MHz	50	500 KHz	1 Watt	Emissions: FCC Part 15 Safety: EN 60950-1, UN 38.3





# Android Portable Ruggedized Computer For Data Collection

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

The following accessories are included in the ALR-H460 package.  
 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



September 21, 2019

Copyright © 2019 Alien Technology LLC. All rights reserved.  
 Alien, Alien Technology, the Alien Technology logo, Spider, Higgs, Dynamic Authentication, QuickWrite, BlockWrite, Squiggle, and the Squiggle logo are trademarks or registered trademarks of Alien Technology Corporation in the U.S. and other countries.  
**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](http://www.alientechnology.com)