



Herelink Tablet Mount

User Manual

Revision A.0
Publish Date: 01.16.2024



Vision Aerial

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Safety Information

Flight Safety

While the Herelink Tablet Mount increases the operator’s situational awareness during flight operation, the Herelink Tablet Mount shall never be used in place of direct visual observation of the flight operation. The pilot retains full responsibility for maintaining a safe flight environment in relation to other crewed and un-crewed aircraft, people, infrastructure, vegetation, and other flight hazards.

Battery Safety

The Herelink controller, Microsoft Surface Go 3, and Battery Bank contain lithium ion batteries which pose inherent safety risks in use and storage. Read and follow the safety and instruction information for each specific product before use. Vision Aerial assumes no responsibility for damages due to defective or improper use of lithium ion batteries.

Limited Product Warranty

Visit <https://visionaerial.com/legal/#warranty> for information regarding the Limited Warranty. The warranty only includes products manufactured by Vision Aerial specifically excluding damages to the tablet(s), battery bank(s), or other accessories.

What's In The Box

1. Tablet Mount Backpack
2. Tablet Mount Tower
3. Neck Strap
4. Herelink Screw
5. USB A to USB C Adaptor
6. Extra Tablet Teeth
7. Sunglasses
8. Phillips Screwdriver
9. Transport Case (opt. acc.)
10. Tablet (opt. acc.)
11. Wall Adapter (opt. acc.)
12. Battery Bank (opt. acc.)



NOTE: The Tablet Mount and accessories will not ship in the transport case. The full case is shown for configuration purposes only.

Tablet Mount Components

1. Tension Adjustment Knob
2. Battery Strap
3. Controller Charging Cable
4. Tablet Teeth
5. Tablet Holder
6. Neck Strap Bracket



Key Features

- » **Two Pivot Points For Optimal Tablet Positioning**
- » **Toolless Quick Disconnect of Tablet Mount Tower**
 - » **Use the Controller with just the Battery Bank and Neck Strap**
 - » **Detach For Rapid Stowing**
- » **Balanced Neck Strap to Help Support the Controller and Tablet**
- » **Battery Bank Retention with Integrated Controller Charging Cable**
 - » **Compatible with a Variety of Battery Banks**
- » **Optional High Power Output Battery Bank and Wall Adapter**
 - » **Extend the Controller and Tablet Battery Life**
- » **Wide Range of Compatible Tablet Sizes**
- » **Blue and Black Herelink Variants**
- » **Limited Product Warranty**

Payload Specifications

Tablet Compatibility Specifications		
MAX Tablet Mass	900 g (2.0 lbs)	
MAX Tablet Height	21.0 cm (8.3 in)	
MIN Tablet Height	16.5 cm (6.5 in)	
MAX Tablet Thickness	1.0 cm (0.4 in)	
MAX Battery Dimensions	16.0 x 8.6 x 2.6 cm (L x W x H)	
Tablet Compatibility List	Microsoft Surface	Go 3, Go 4, Pro 7+, Pro 9
	Samsung Galaxy Tab	S9 Ultra, S9+, S9, S9 FE, S8 Ultra, S8+, S8, S7 FE
	Google Pixel Tablet	
	Lenovo Tab	P12, Extreme

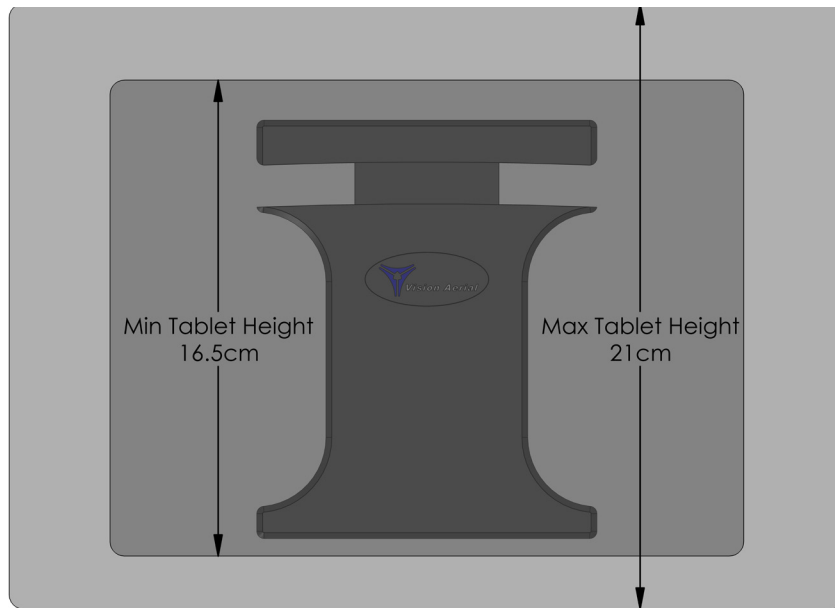


Figure 1: Range of compatible tablet sizes.

Compatibility

The Herelink Tablet Mount is physically compatible with the Herelink 1.0 and Herelink 1.1 hand controller.

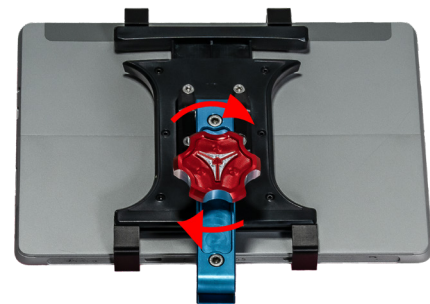
The Herelink Tablet Mount can be used with any aircraft that uses a Herelink controller, including non-Vision Aerial aircraft.

NOTE: The Herelink Tablet Mount - Black Herelink variant is only compatible with the Black Herelink controller and the Herelink Tablet Mount - Blue Herelink variant is only compatible with the Blue Herelink variant. The two Tablet Mount variants are **NOT** cross-compatible.

Set Up

Install Herelink

Slide the Herelink controller into the backpack hooks. Remove the rubber cover on the bottom of the controller and tuck it between the controller and the backpack. Use the screwdriver to secure the screw into the Herelink controller. If using a battery bank, connect the micro-USB connector to the controller.



Assemble Tablet Mount

Attach the neck strap buckles to the bracket on the backpack. Place the tower onto the pivot shaft. Adjust the tower to the desired position and tighten the knob.



CAUTION: Ensure the knob is fully tightened before installing a tablet.

Change Tablet Teeth

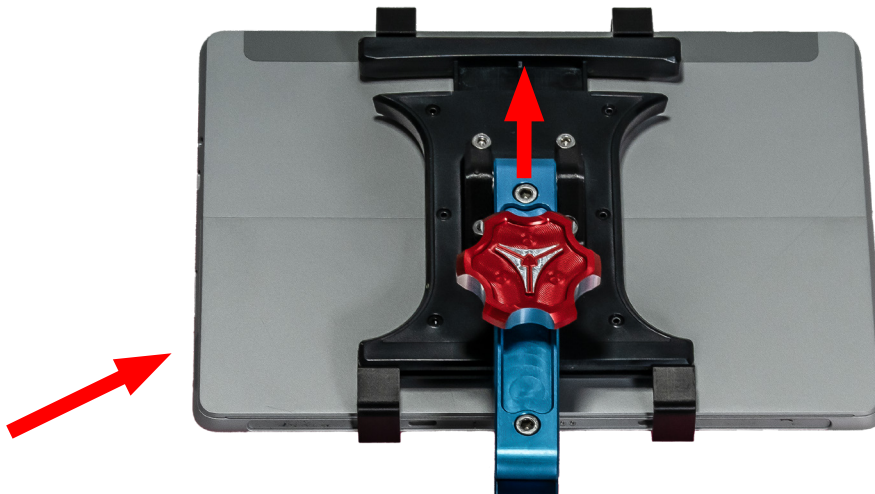
Slide the teeth out of the T-slot and install the desired teeth. For large tablets, such as the Surface Pro, use the tall teeth.



CAUTION: For the most ergonomic setup, do not use the tall teeth on the bottom of the tablet holder as they can inhibit finger movement with the controller controls.

Install Tablet

Slide the tablet up and into the tablet holder. The expansion joint in the top of the tablet holder will auto-fit to the size of your tablet.



Position Battery Bank

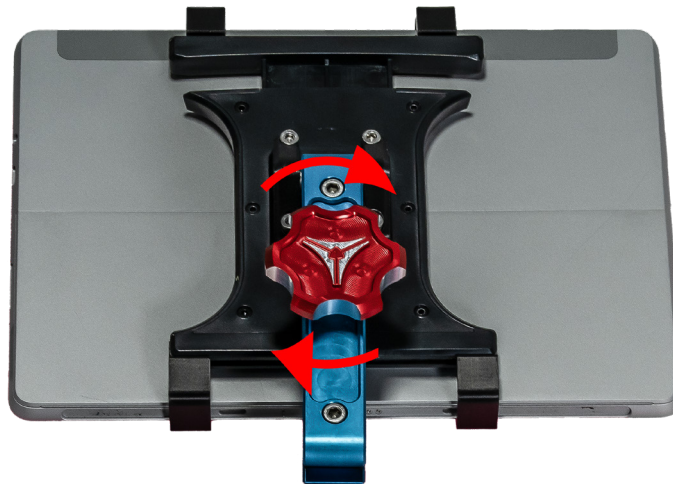
Install the battery bank in the battery strap with the output power port facing up. Plug the USB-C connector into USB-C 2 on the battery bank.

NOTE: For the most ergonomic setup, position the bottom of the battery bank below the lower hook on the backpack.



Operation

To adjust the position of the tablet once it is installed, loosen the knob 2-3 turns and reposition. The tablet and truss system should be able to move while also holding the weight of the tablet. Once the tablet is in the desired position, retighten the knob 2-3 turns.



Connect the Herelink Controller and Tablet

NOTE: These instructions are intended for users using Flight Deck or QGroundControl. For instructions on connecting to an app other than Flight Deck or QGroundControl, please refer to the user documentation for your app.

Turn on the hotspot on the Herelink Controller by sliding down from the top of the screen and tapping the hotspot icon on the right side of the screen. On the tablet, open the wifi settings and select the hotspot to connect.

NOTE: For Herelink Controllers purchased from Vision Aerial, the hotspot password is by default set to “visionaerial”.

Charge the Herelink Controller and Tablet

Plug the micro-USB connector of the integrated charging cable into the Herelink controller.

Plug a USB-C to USB-C cable into the battery bank and plug the other end into the USB-C port on the tablet.

Any battery bank can be used to charge the controller. A high power output battery bank (24W or greater) is needed to charge the tablet. The High Power Output Battery Bank offered by Vision Aerial is capable of charging both the Microsoft Surface Go 3 and the Herelink controller simultaneously.

NOTE: If using the High Power Output Battery Bank, USB-C 1 must be used to charge the tablet.

Resources For Vision Aerial Users

The following information is intended to help integrate the Herelink Tablet Mount with existing Vision Aerial systems and is not pertinent to users with non-Vision Aerial systems.

Install Flight Deck

See the [Install Flight Deck](#) section of Flight Deck User Guide for general instructions on how to install Flight Deck on a Windows-based product.

Modify Aircraft Case Foam

The aircraft case foam must be modified in order to store the Herelink Tablet Mount in the aircraft case with the aircraft and all other accessories. Contact the Vision Aerial Service Department for details on how to modify the case foam to accommodate the Herelink Tablet Mount.

Caution: Modifying the case foam in an unsanctioned manner can lead to reduced protection of the aircraft and other items in the case and increase the risk of damages in transport.

Accessories

High Power Output Battery Bank

The battery bank supplies additional power to simultaneously charge the Herelink controller and the tablet with 65W total output across two USB-C ports. To charge the tablet, use the USB-C 1 port on the battery bank to ensure the tablet's power requirement is met.

NOTE: The power output of most battery banks is between 5-12W. In order to charge the Surface Go 3, the power required is at least 24W.

Battery Bank Specifications	
Capacity	24,000mAh
Output Ports	2x USB-C, 1x USB-A
Output Specs	USB-C 1: 45W USB-C 2: 20W
Input Port	USB-C
Recharging Specs	30W (4.5 hrs)
Battery Dimensions	16.0 x 8.5 x 2.6 cm (L x W x H)

Using the battery bank to simultaneously charge the Herelink controller and the tablet extends the total runtime of the system. The total runtime of the system depends on the device configurations including screen brightness, use of the mobile hotspot, etc.

	Herelink Controller Standalone Runtime (hrs)	Herelink Controller Only Runtime with 24,000mAh Battery Bank (hrs)	Herelink Controller + Microsoft Surface Go 3 Runtime with 24,000mAh Battery Bank (hrs)
Max Draw (Full brightness and mobile hotspot activated)	2.1	12.5	7.1
Normal Draw (80% brightness and no hotspot)	3.2	18.7	9.5

Table 1: System runtime breakdown with 24,000mAh battery bank.

High Power Output Wall Adapter

The high power output capabilities of the wall adapter allows it to charge both the Microsoft Surface Go 3 and the High Power Output Battery Bank simultaneously using the USB-C ports.

Wall Adapter Specifications	
Capacity	24,000mAh
Output Ports	2x USB-C, 1x USB-A
Output Specs (Single-Port Charging)	USB-C 1: 65W USB-C 2: 65W USB-A: 22.5W
Output Specs (Two-Port Charging)	USB-C 1 + USB-C 2: 65W USB-C 1 + USB-A: 65W USB-C 2 + USB-A: 24W
Output Specs (Three-Port Charging)	USB-C 1 + USB-C 2 + USB-A: 65W
Output Voltage	100V-240V
Recharging Specs	30W (4.5 hrs)
Battery Dimensions	3.8 x 2.9 x 6.6 cm (L x W x H)

Microsoft Surface Go 3

The Microsoft Surface Go 3 offers a secondary screen for flight operations that can display live maps, mission data, payload video feed, or any other relevant data. [Flight Deck](#) can easily be installed for integrations with existing Vision Aerial systems. A Microsoft Surface Go 3 with LTE Advanced capability is available for operations requiring an internet connection. Contact your cellular service provider to set up the LTE Advanced service.

Microsoft Surface Go 3 Specifications		
Dimensions	24.5 x 17.5 x 0.8 cm (9.65 x 6.9 x 0.33 in)	
Display	Screen	10.5" PixelSense™ Display Corning® Gorilla® Glass 3
	Resolution	1920 x 1280 (220 PPI)
	Aspect Ratio	3:2
	Touch	10-point multi-touch
	Contrast Ratio	1500:1
Memory	4 GB	
Processor	Intel® Pentium® Gold processor	

Weight	Wifi: 544g (1.2lb) LTE Advanced: 553g (1.22lb)	
Storage	eMMC Drive: 64 GB	
Battery Life	Wifi: Up to 11 hour of typical device usage LTE Advanced: Up to 10.5 hours of typical device usage	
Graphics	Intel® UHD Graphics 615	
Connections	1x USB-C 3.5 mm Headphone Jack 1x Surface Connect Port Surface Type Cover Port MicroSDXC Card Reader LTE Advanced: Nano SIM Tray	
Wireless	Wifi 6	IEEE 802.11 a/b/g/n/ac/ax compatible
	Bluetooth	Bluetooth Wireless 5.0 technology
	LTE Advanced	Qualcomm® Snapdragon™ X16 LTE modem Up to 600 Mbps LTE Advanced3 with nanoSIM support. Bands supported: 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 19, 20, 25, 26, 28, 29, 30, 38, 39, 40, 41, 66 Assisted GPS and GLONASS support eSIM support
Battery Capacity	Nominal	28.0 WH
	Minimum	26.8 WH

Transport Case

The transport case provides a portable and rugged storage option for the Tablet Mount.

NOTE: Purchase of the transport case does **NOT** include a Tablet Mount.

Transport Case Specifications		
Capacity	1x	Tablet Mount (Disassembled)
	1x	Tablet
	1x	Wall Adapter
	3x	Battery Bank (1x installed on Tablet Mount, 2x uninstalled)
		Miscellaneous tablet teeth and spare parts
	1x	Sunglasses
IP Rating	IP67	
Outside Dimensions	35.9 x 33.5 x 25.1 cm (LxWxD)	