

## MagArrow II Upgrade

1. Much better GPS accuracy (1.5m 50% CEP; 1m 50% CEP with SBAS) compared to MagArrow I (3m 50% CEP) with a redesign of GPS module. If multi-path becomes an issue (close to ground), an external helical antenna (included) can be attached. With the external helical antenna, MagArrow II is 200g heavier than MagArrow I (1.2kg vs 1kg without batteries).



Figure 1 Using the internal GPS patch antenna by removing the external helical antenna.



Figure 2 GPS automatically switches to the external helical antenna when it is attached.

2. Dual internal and external power/reset button. The external button is shown in Figure 3. The internal button is the same as in MagArrow I.



Warning: if the external button is hit by extruding hard surface, like a rock, during landing, it may stop the data acquisition. Always make sure data acquisition is ON before drone flies out of the WIFI range.

Figure 3 External power/reset button.

- 3. Package redesign (both top and bottom). As a result, we can offer MagArrow II at the same price as MagArrow I with the same drop test parameters.
- 4. The top cover is no longer made of carbon fiber. Instead, it is vacuum formed plastic that is more flexible and much less expensive, thus saving the customer over \$4K when crashed units are sent in for repair. Customers may notice a slight difference in finish and appearance.