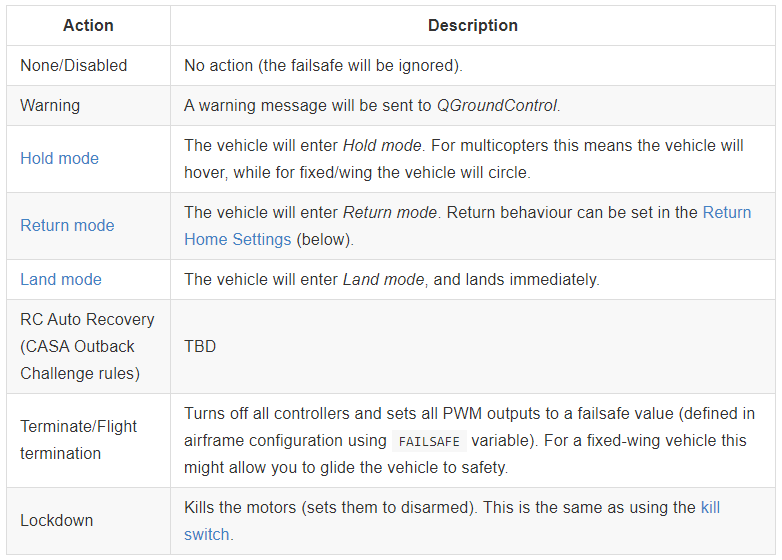
**General Questions & Answers:**

**Q1: Can QGroundControl interact with the autopilot while in flight?**

Yes Q-GroundControl can communicate with Pixhawk4 while in flight. Additional telemetry is required and has been added to the Quadcopter BOM.

**Q2: How can SLA software integrate into the [https://docs.px4.io/en/config/safety.html]“Safety Configuration (Failsafe)” modes available in PX4?**

PX4 has the following failsafe flight modes:



PX4 can transition between flight modes using switches on the remote or ground control station. These flight modes are activated based on the PWM value of a channel. The channel and the flightmode/PWM assignments are configured in Q-GroundControl. The SLA software could communicate these PWM signals to the specified port to trigger the failsafe flight modes. These should also be programmed to switches on the remote control.

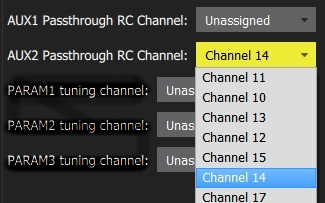
**Q3a: Are there any command and control methods that could be bound to the “AUX Passthrough Channels” of a transmitter? Stablize ON/Off? Track enable? Landing Enable?**

AUX Passthrough Channels

AUX passthrough channels allow you to control arbitrary optional hardware from your transmitter (for example, a gripper).

To use the AUX passthrough channels:

1. Map up to 2 transmitter controls to separate channels.
2. Specify these channels to map to the AUX1 and AUX2 ports respectively, as shown below. Values are saved to the vehicle as soon as they are set.



The flight controller will pass through the unmodified values from the specified channels out of AUX1/AUX2 to the connected servos/relays that drive your hardware.

**Q3b: If so, how does the receive/autopilot communicate that to the 1500-OEM?**

**Q4: How are the “Camera Controls” transmitted to a camera? Are there**

**Q5: What is the [https://docs.px4.io/en/advanced\_config/land\_detector.html]“Land Detector Configuration”?**

**Q6: What else is needed for [https://docs.px4.io/en/advanced\_features/precland.html]“Precision Landing”?**

**Q7: Is it valuable to compare our landing aid to the IR-Lock MarkOne?**

**Sensor: [https://irlock.com/products/ir-lock-sensor-precision-landing-kit?variant=2022285059]IR-LOCK Sensor ($99) + Cable ($6)**

**Beacon: [https://irlock.com/collections/markone/products/markone-beacon-v2-0?variant=45031002691]MarkOne Beacon V2.0 ($139) - Additional cables and power supplies not listed**

**Q7b: Is there value in creating a plug in replacement for the IR-Lock Sensor?**

**Q8: Is it valuable to compare to a range finder?**

**Sensor: [https://irlock.com/collections/rangefinders/products/sf30-c-100-m?variant=15891310346291]SF30/C ($399)**

**Q9: Calibrating the 1500-OEM with the Pixhawk should involve some alignment of X&Y axis. How is this done?**