

# Documentation: QR modes

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# 1 Modes

## 1.1 Safe

- LEDs correspond to binary 1.
- For transitions from Safe to any other mode the RPM needs to be equal to 0 and Joystick needs to be in neutral position.
- All motors need to have  $RPM = 0$ .

## 1.2 Panic

- LEDs correspond to binary 2.
- Motors need to slow down to 0x0100
- Stays in this state for a undefined time  $t$  (a few seconds).

## 1.3 Manual

- LEDs correspond to binary 3.
- Control laws in controller are bypassed.
- Pitch control disabled.
- Roll control disabled.
- Yaw control disabled.

## 1.4 Calibration

- LEDs correspond to binary 4.
- Motor RPM are equal to 0.
- Calibrate the sensor values.

## 1.5 Yaw Control

- LEDs correspond to binary 5.
- Pitch control disabled.
- Roll control disabled.
- Yaw control enabled.

## 1.6 Full Control

- LEDs correspond to binary 6.
- Pitch control enabled.
- Roll control enabled.
- Yaw control enabled.

