Receiver Origin Mi-RX32M

The MI-Rx32M is a DSM2 Compatible 4 channel micro receiver for actuators. It’s very light and you have the option of soldering direct to the board or soldering 1.27mm pitch connectors to make the unit easily plug n play.

The receiver has a 2 Amp onboard brushed ESC as well as a signal pad for use with an external brushless ESC board.

Note that while this is a 4ch receiver you can only set it up for 3 channels in either of the configurations below.
1. Throttle, Elevator and Rudder
2. Throttle, Elevator and Aileron
* The rudder and aileron can be swapped by programming the unit as explained below.
**Notes on Wiring**

**Example Wiring Configuration for Brushed Motor**

- **Actuators**
- **Battery**
- **Brushed Motor**

**Example Wiring Configuration for Brushless Motor**

- **Actuators**
- **Battery**
- **Brushless Motor**

**NOTE:** This receiver does not have a reverse connection protection circuit. If you connect the power leads in reverse the receiver will not work anymore.
Programming The Unit

About Programming
Programming of the unit can be achieved by putting the unit into programming mode upon startup with a specified stick combination. You can then use the transmitter sticks to go through a sequence of programming options.

Programming Options

Function A: V-Tail Mixing
This function allows you to set the receiver to do the v-tail mixing instead of the transmitter (for those who don’t have a programmable transmitter). In this mode when the elevator stick is moved, both the onboard actuators move in the same direction in unison. Moving the rudder stick will allow the actuators to move in unison but in the opposite direction to one another.

Aileron and Rudder Swapping
With this function set the rudder actuator port on the receiver will be controlled by the aileron stick on the transmitter instead of the rudder stick.

Binding the Receiver to your Transmitter
1. Apply power to the receiver and wait for the blue blinking LED to blink quickly
2. Turn on your DSM2 compatible transmitter while holding the bind switch
3. The unit is correctly bound when the blue LED turns off and then comes on constant again
4. Release the bind switch on your transmitter

Entering Programming Mode
1. Set the throttle stick to 50% (in the middle), and with the transmitter on, connect power to the receiver.
2. The LED will go dull for 2 seconds, and within this 2 seconds you must move the elevator stick to the highest position and then hold it there for 2 seconds. The LED will flash once and then stay on.
3. Release the elevator stick back to the centre position.
4. The receiver unit is now in programming mode.

V-Tail Mixing
1. Enter Programming Mode as described above
2. Move the throttle stick to the highest position and the LED will flash once.
3. To activate mixing, move the rudder stick to the left and hold it there for 2 seconds.
   The LED will flash once and then stay on – then release the stick back to the neutral position.
* To deactivate mixing follow the same procedure as above but push the rudder stick to the right instead.

After making changes to the settings you must save them and exit programming mode. Use the following steps.
4. Move the throttle stick to the lowest position and the LED will flash 3 times
5. Then move the rudder stick to the left and hold it there for 2 seconds. The LED will flash once and stay on.
6. Release the rudder stick back to the centre position. Settings are saved and the unit exits programming mode.
Aileron and Rudder Swapping

1. Enter Programming Mode as described above
2. Move the throttle stick to the 3/4 position (anywhere between 50% and full throttle) - LED flashes twice.
3. Move the rudder stick to the left and hold it there for 2 seconds, the LED will flash twice. Then release it.
   * To deactivate aileron and rudder swapping push the rudder stick to the right instead.

After making changes to the settings you must save them and exit programming mode. Use the following steps.

4. Move the throttle stick to the lowest position and the LED will flash 3 times
5. Then move the rudder stick to the left and hold it there for 2 seconds. The LED will flash once and stay on.
6. Release the rudder stick back to the centre position. Settings are saved and the unit exits programming mode.

Resetting the Unit: (changes all settings back to the factory default)

1. Enter Programming Mode as described above
2. Move the throttle stick to the lowest position (LED flashes three times)
3. Then move the elevator stick to the highest position and hold it there for 2 seconds (LED flashes once)
4. Release the elevator stick back to the neutral position.
Settings are now reset and the receiver arms ready for use.