Introduction
Thank you for purchasing FrSky RX6R 6/24CH telemetry receiver. The RX6R features 6 PWM outputs with extremely high precision and low latency. The latency of PWM output is 9ms less than that of X series receivers in high speed mode. RX6R features redundancy function as well, so another receiver can be added as a back-up in case the first one fails. Last but not least, the RX6R and the whole RX-line has a 40% increase in range compared to the previous X series receivers. In order to fully enjoy the benefits of this system, please read the instruction manual carefully and set up the device as described below.

Overview

What’s New
- CH1~CH6 outputs high precision PWM signal (Precision: less than 0.5us)
- Under the same conditions, the effective communication distance of RX6R is about 1.4 times than that of X series receivers.
- Installed with ACCESS protocol

Specifications
- Dimension: 211*177*7mm (L × W × H)
- Weight: 2.5g / 2.9g (with two antennas)
- Number of Channels: 24CH
- Operating Voltage Range: 3.5V~10V
- Operating Current: 100mA@5V
- Operating Range: >2km
- Compatibility: ACCESS/*ACCST firmware
- Servo frame rate: 7ms (HS-- High Speed Mode) / 20ms (FS--Normal Speed Mode)

Feature
- Small and High sensitivity (40% increase of the range compared to previous X series receivers)
- Higher precision PWM
- Low latency PWM output
- Lower power consumption
- Redundancy function supported
- Smart Port enabled and telemetry data transmission supported
- Battery voltage detection supported
- 2 detachable IPEX 4 connector antennas
- PCB protection with the conformal coating craftwork

Range Check
A pre-flight range check should be done before each flying session. Reflections from nearby metal fences, concrete buildings or trees can cause loss of signal both during range check and during the flight. Under Range Check Mode, the RF power would be decreased and Range distance to 1/30 --1/10 that of Normal Model, about 30 meters.

How to Switch FS mode/HS mode
a) The factory default setting is FS mode.
b) To go to the receiver [Options], select the 7ms PWM or not.

LED state

Registration & Automatic binding (Smart Match™)
With the FrSky ACCESS protocol, the transmitter/transmitter module can bind receiver without using the “F/S” button.

Follow the step below to finish the Registration & binding procedure:
1. Put the transmitter/transmitter module into [Reg] status.
2. Connect the battery to the receiver while holding the F/S button on the receiver. The RED LED and GREEN LED will flash, indicating into the [Reg] status. Select [ENTER] on the transmitter, The RED LED and GREEN LED will flash, and the transmitter displays [Registration ok].
3. Turn off the receiver.
4. Move the cursor to select the receiver 1 [Bind].
5. Connect the battery to the receiver, the GREEN LED will flash, indicating into the [Bind] status. Select the RX, the GREEN will keep lit, and the transmitter displays [Bind successful].
6. The transmitter exit [Bind], GREEN LED will keep lit, RED LED will be off, indicating Working normally.

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1. Place the model at least 60cm (two feet) above non-metal contaminated ground (e.g. on a wooden bench). The receiver antenna should be in vertical position.
2. For Taranis X-Lite Pro as an example, turn on the transmitter, go to the MENU-MODEL SETUP-PAGE 2, choose Internal or External RF, and select [Reg].
3. Connect the battery to the receiver while holding the F/S button on the receiver. The RED LED and GREEN LED on the receiver will be on, indicating into the [Reg] status. Select [ENTER] on the transmitter, The RED LED and GREEN LED will flash, and the transmitter displays [Registration ok].
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Failsafe

Failsafe is a useful feature which is for a preset channel output position whenever control signal is lost for a period. Follow the steps to set Failsafe for channels necessary:

1. For Taranis X-Lite Pro as an example, turn on the transmitter, go to: MODEL SETUP/Internal RF/Failsafe.
2. Failsafe can be set on receiver via short pressing F/S button while moving a certain channel position to a preset value after binding.