Using a Tactic TTX600 Radio with the RealFlight Interface

Quick Start

We’ve made it so RealFlight can give you 8 channels even though your radio only has 6. This required a few workarounds.

A quick summary of the situation is:

- You will be using your Channel 5 switch to control Channel 7 in RealFlight.
- You will have to use the keyboard to activate some functions.

Controlling Models:

- Use the dual rates switch on your radio as you would normally.
- Ignore any reference RealFlight makes that implies Channel 5 is connected to “dual rates”. For you, it isn’t.
- For RealFlight’s Channel 5 use the “Y” key.
- For RealFlight’s Channel 6 use the knob.
- For RealFlight’s Channel 7 use the switch labelled “Channel 5” on your transmitter.
- For RealFlight’s Channel 8 use the “O” key.

If you want to skip the details stop reading here. Come back if you have any problems.

The Details

About the Radio

The Tactic TTX600 is a 6 channel radio with a built-in dual rate function. It has a two position Channel 5 switch and a knob for Channel 6.

Since RealFlight’s models are designed for 8 channel radios you will have to use the keyboard to access some RealFlight features.
**Connecting the Radio**

Connect your radio to the computer using the RealFlight Interface. Your radio must be on to use it with RealFlight.

Remember to turn off your radio after you are done playing, to save your batteries.

**Channel Reverse Switches**

On the front of the radio are four channel reverse switches. Put these in the “Normal” position.

![Channel Reverse Switches Image]

**Trims**

It is important that your radio trims are centered. Your radio has an analog trim lever for throttle and digital trim switches for the other major channels.

The analog trim lever, for throttle, can be visually centered. Simply move the lever until it is in the middle of its range of motion.

![Trims Image]
The digital trim switches can’t be centered visually. Each time you push them up or down your radio increments or decrements an internal digital trim value. Turn on the radio and listen to the tones as you move the switches up and down. The tone changes when you hit the trim limit or pass through center. Set all of the digital trims to center.

If you skip this step you might find that RealFlight models tend to climb or turn even when you aren’t telling them to!

**The Dual Rates Switch**
These instructions will refer to the “Dual Rates” switch. The switch is in the upper right of your transmitter, next to the “D/R” label.

Flip the switch up to engage “high rates”. This will make the control surfaces on the aircraft move as far as they can.

Flip the switch down to engage “low rates”. This will limit the control surfaces on the aircraft so they don’t move as far, making it a bit easier to fly.

It is common for pilots to use this switch quite a bit, using “low rates” for takeoff and landing and “high rates” for aerobatics.

**Calibrating**
It’s important that you calibrate your radio and that you do this with the dual rates switch in the “high rates” position (flip it up). If you do not have high rates enabled you will have trouble completing the calibration process.
Different Methods
There are two different ways to use your Tactic TTX600 with Realflight.

1. Use the Tactic’s built-in dual rates feature.
2. Use RealFlight’s Software Radio for dual rates and expo.

Method 1: Use the Tactic’s built-in dual rates feature.
This method is best for people who are learning to fly R/C models with the Tactic TTX600. It’s the recommended method for beginners.

The downside of this method is that some RealFlight models might be hard to control because they are designed for use with RealFlight’s Software Radio “expo” feature. If you are only flying the trainers this isn’t going to get in the way. When you move on to more advanced aircraft, consider switching to Method 2.

To enable this method, use the “Tactic TTX600” radio profile.

Here are the things you need to know to fly models in the simulator:

- Use the dual rates switch on your radio as you would normally.
- Ignore any reference RealFlight makes that implies Channel 5 is connected to “dual rates”. For you, it isn’t.
- For RealFlight’s Channel 5 use the “Y” key. You won’t need this switch often unless you play the Challenges (for the grapple) or the multiplayer combat games (for guns).
- For RealFlight’s Channel 6 use the knob. This typically controls flaps.
- For RealFlight’s Channel 7 use the switch labelled “Channel 5” on your transmitter. This switch is typically used in RealFlight for smoke, retracts, and throttle hold.
- For RealFlight’s Channel 8 use the “O” key. This typically controls Idle Up with helis and with some airplanes it operates the canopy or some other special function. RealFlight expects this to be a three-position switch. Tap the key to toggle it on or off and hold the key to set the virtual switch to the middle position.

Method 2: Use RealFlight’s Software Radio for Dual Rates and Expo
The advantage of doing it this way is that RealFlight’s Software Radio will automatically load up a simulated computer radio profile custom tuned for each model you fly. That means every model will be perfectly tuned with the rates and expo we set up.
The downside is that you’ll use up one of the switches on your radio so you’ll need to use the keyboard a bit more often.

Just select the “Tactic Advanced” profile and you’ll be all set.

If you go this route, you will:

- Keep your Tactic TTX600’s dual rate switch in the high rates position (flip it up) all the time. You are using RealFlight’s Software Radio dual rates instead, so leave this switch alone.
- For dual rates, use the Channel 5 switch (not the dual rates switch) on your Tactic TTX600. This is the channel RealFlight’s Software Radio listens to for its Dual Rates feature.
- For the few RealFlight models that have Channel 5 mapped to special functions (like guns or the grapple), again use the Channel 5 switch on your transmitter.
- For Channel 6, use the knob on your radio. This typically controls flaps.
- For Channel 7, use the “I” key. This typically controls retracts, smoke, and throttle hold.
- For Channel 8, use the “O” key. This typically controls Idle Up with helis and with some airplanes it operates the canopy or some other special function. RealFlight expects this to be a three-position switch. Tap the key to toggle it on or off and hold the key to set the virtual switch to the middle position.

It bears repeating that you will be activating the RealFlight Software Radio dual rates feature via your channel 5 switch and therefore it is very important that you keep your transmitter’s dual rate switch in the “high rates” position.

**About the RealFlight Interface**

The RealFlight Interface has a “Reset” button on it. You must press this button to validate the connection between your radio and RealFlight, every time you run the software. You can also press the button while the software is running if you want to reset the plane. Holding the button down will enter “Rewind” mode, which will let you play back through your flight.
## Troubleshooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
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<tbody>
<tr>
<td>RealFlight doesn't recognize my radio.</td>
<td>• Make sure your radio is on.</td>
</tr>
<tr>
<td></td>
<td>• Make sure your radio is plugged into the interface</td>
</tr>
<tr>
<td></td>
<td>• Make sure your interface is plugged into the computer</td>
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<tr>
<td>Models in RealFlight are out of trim; they always want to turn or dive.</td>
<td>• Make sure your radio trims are centered.</td>
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<td></td>
<td>• Use RealFlight’s “Calibrate” screen to calibrate your radio.</td>
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<tr>
<td>My controls are reversed.</td>
<td>• Make sure all of the Reverse switches on the front of your radio are set to “Normal”.</td>
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<tr>
<td>My controls are too sensitive. My controls aren’t sensitive enough.</td>
<td>• If you are using Method #1 and you don’t like the way the rates feel, consider switching to Method #2.</td>
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<tr>
<td></td>
<td>• If you are using Method #2 above, make sure your dual rates switch is set to the high rates position (flip it up). Use the Channel 5 switch to toggle dual rates instead.</td>
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<tr>
<td>My controls are swapped.</td>
<td>• Make sure you are using the correct Radio Profile. If you are using Method #1 above, you should be using the “Tactic TTX600” profile. If you are using Method #2 above, you should be using the “Tactic Advanced” profile.</td>
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<tr>
<td>My radio works fine with RealFlight models, but the movement of the sticks in the Radio Gadget doesn’t match expectations.</td>
<td>• You can select a different stick layout for the Radio Gadget using the “Gadgets” menu. Look for “Radio Mode”. RealFlight defaults to mode 2, which is the world’s most common stick layout.</td>
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