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Posted by u/abra5umente ZMR250 6 years ago

# What is the difference between rate mode and horizon mode?

Question

I'm just starting out with all this and I see these terms used a lot and I have no idea what they mean.

Can someone ELI5?

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bulbufet · 6y  
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Horizon mode stabilizes your quad, and rate mode maintains the pitch the pilot requests.

So, in horizon, if you push forward 35% on the stick for a bit and let go, the quad will snap back to level. If you do the same maneuver in rate, the quad will maintain the forward pitch until otherwise told.

There's also horizon versus angle mode, too. Horizon mode is "advanced" angle mode. In angle mode, you can push the stick to 100%, and the quad will never tilt more than so many degrees (50 by default?) In horizon, if you push it all the way



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abra5umente **OP** · 6y  
ZMR250

That makes perfect sense! Okay, my quad (rebrand of a WLToys v222) has three settings on the controller; 30%, 60% and 100%. They all snap back to level if I release the sticks, and if I hold the quad in my hand and turn the throttle up and rotate the quad around in my hand the accelerometer inside adjusts the fan speeds to try and keep it level. Would this be horizon mode? It needs to be calibrated on a flat surface before flying. I normally fly in 60% mode because 100% mode is really twitchy and will flip the quad if I push the pitch to 100% forward/backward/left/right. Why would this be? It's really difficult to control in 100% mode.

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backwoods\_neckbeard · 6y

You have horizon and angle mode backwards FYI. Horizon mode is what most people think of as beginner mode (auto level, no flips, no rolls, no extreme anything), angle is intermediate (tricks may be possible, steeper tilts, still auto levels), and acro/rate mode is advanced (quad maintains last input given)

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In horizon i normally crash right side up and can blip the throttle before impact and minimize damage. In rate, well its the opposite of that.

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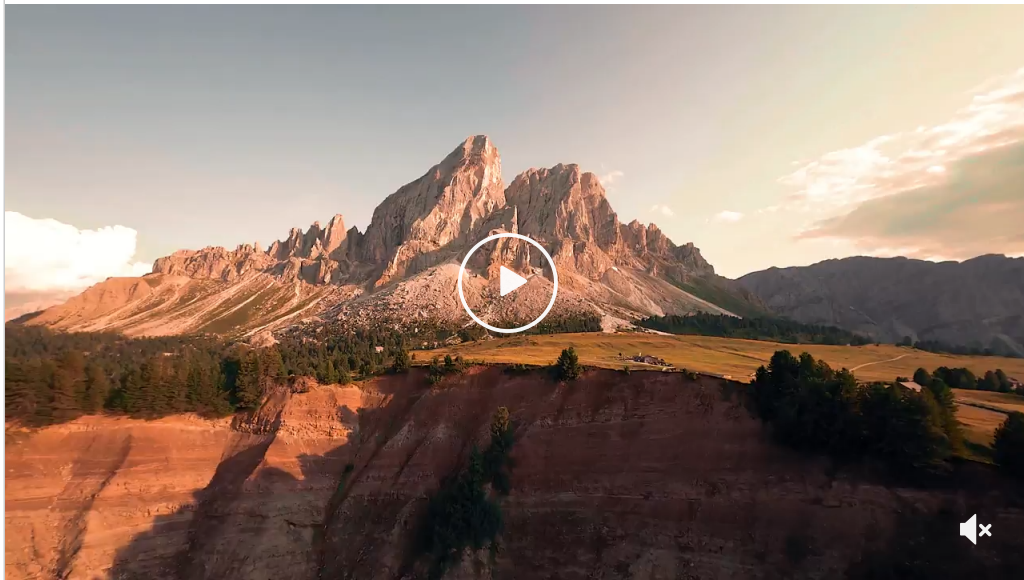


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