



AiM Webinar
"Initial Karting Data Review"
7.21.20
Edited Q&A

1 **Q:** What is the average size of a kart track?

A: Kart tracks vary in size quite a bit. Depending on whether you are on an Oval, Roval, sprint track, etc. they can be anywhere from 0.5 to 2+ miles.

2 **Q:** My GPS is not linking to the zoom on the measures graph, why?

A: GPS "map" doesn't zoom with measure graph zoom.

3 **Q:** The problem I have, when analyzing my son's driving at PIR PDX, is that that when I expand the GPS Speed it is just a very gentle wave. Not like kart data. The result is that I have difficulty pinpointing areas to focus on. Any suggestions?

A: [Answered live at 26:37]

4 **Q:** Do you ever look at the vertical G to see if the driver is on the curbing?

A: [Answered live at 35:23]

5 **Q:** How can you tell the difference between the kart accelerating or if the LongAcc channel is increasing due to the incline of the track?

A: We did an entire webinar about using track slope to help understand acceleration and grip. Give it a watch:
<https://youtu.be/kF7d1gLinGQ>

6 **Q:** I have an MXG 1.0 mounted in my car, do the internal gyros need to be calibrated? If so, how do I do that?

A: Yes, it does need to be calibrated. With the vehicle stopped on a level surface, connect to the MXG on RS3, go to the 'live measures' page, click the calibrate button in the top left (if you hover over it, it says "click to perform autocalibration for all channels"), then click "Autocalibrate All".

7 **Q:** With track maps that have multiple segments, is there a way to see time delta vs. best time on the dash, instead of the actual time to that point in the lap?

A: [Answered live at 54:23]

8 **Q:** To have a deeper understanding of what is happening, do you recommend using the steering velocity and corner radius math channels? And to see how much grip there is in a corner, do you recommend using the GSum math channel?

A: [Answered live at 50:38]

9 **Q:** I have 3 devices that won't give me distance, two Mychron5's and a Solo2 DL. Is there something on my end I can look at to fix it?

A: Create a math channel to calculate distance: `lap_integ(GPS_Speed * MPH2FTS)`

10 **Q:** Mychron5s are often mounted to the steering wheel, which is constantly moving, does this affect the accuracy of the gyros?

A: It can, so usually it's better to stick with GPS acceleration. This is a great tool and is not affected by the turning of the steering wheel.