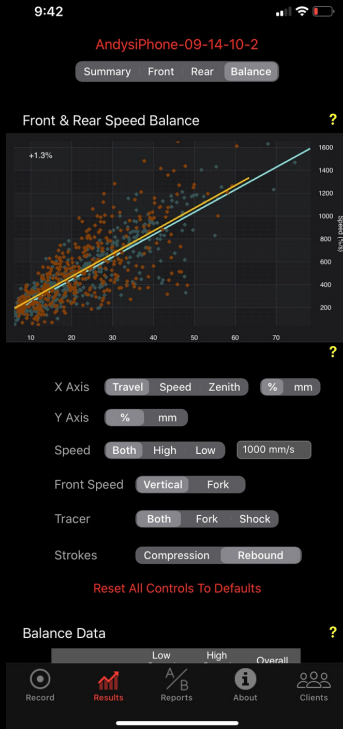




PRODUCT DATA SHEET

DETAILS AND SPECIFICATIONS

MOTIONIQ APP



Introduction

MotionIQ is an advanced app that turns your smartphone into a powerful post-ride suspension adjustment tool. Once paired with our Tracer sensors attached to your bike, MotionIQ provides invaluable, real-time insight into the performance of your suspension and overall ride. It's a game-changing package for riders and teams of every skill level, available at a fraction of the cost of traditional systems.

MotionIQ works wirelessly with the Motion Instruments family of Tracer sensors. These are independent, embedded sensors that sample your bike's suspension position and vibration hundreds of times a second. Your phone and the MotionIQ app collect all this data as you ride, so you can make data-driven adjustments right on the trail or back at the tent. MotionIQ is designed to work silently in the background and does not require any network connection or cell tower. All of your phone's functionality continues to operate as designed.

The MotionIQ app has three main sections: Bike Setup, Recording, and Analysis.

✓ Bike Setup

MotionIQ is designed to analyze *your specific* bike. Our system factors in many aspects of your bike frame geometry to give you the best possible results. And we made it super easy to set up. Just pick your bike model from our catalog and MotionIQ knows your shock leverage curve, front and rear suspension range, and frame geometry. If you make any modifications to your bike such as installing a longer fork you can simply enter your new fork travel on the setup page. Next you will connect to your Tracer devices with a single button push. To complete your bike setup just tap the calibration button to instantly calibrate both Tracers. Your one-time bike setup is now complete.

Bike Profiles

MotionIQ stores all of your bike settings in a named bike profile. If you have two or more bikes you can create a separate profile for each bike and easily switch between them. If your bike geometry is adjustable you can create a separate bike profile for each 'mode' your bike allows. There is no limit to the number of profiles you can create.



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✓ Recording

Once your bike setup is complete you are ready to ride. Just hit **Record** or **Auto Mode (see below)**. The Record button will collect data in a continuous manner. This is great for just doing a run from the top to the bottom of the trail.

About Auto Mode: If you plan to record a longer session or multiple rides, we recommend Auto Mode. This sets MotionIQ to collect data only when you are moving. If you stop to take a break, MotionIQ will stop collecting data. When you start to roll, MotionIQ will automatically collect data again and append it to the same session.

To enable Auto Mode, tap Auto on the Record screen. Auto will only be present if your device is able to acquire a GPS signal.

Measuring Sag

MotionIQ makes it trivial to accurately measure sag. It takes less than 10 seconds. Open up the app, tap the sag button, and put your phone down. Get on the bike and distribute your weight as desired, then tap the handlebar button to record your sag position. You can display your sag position in millimeters or as a percentage of full travel.

✓ Bike Analysis

After the ride is where MotionIQ shines. It visualizes all the data you need to understand your ride and make critical suspension decisions. Whether you're a solo rider, on a team, or a bicycle OEM, MotionIQ's data will empower you to make informed decisions about suspension performance.

Maps

See where you rode with standard or satellite maps. Drop map markers while you ride with the **Tracer Handlebar button**. From the maps section, send your tracks to Strava, Google Earth, or a standard GPX file to share with a friend, GPS device, or elsewhere.

Strava users can upload all tracks to their accounts and view suspension behavior against Strava's trail segments. This is a great feature for Enduro riders.



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Time Series Data

See all of your waveforms from the ride. This is a MotionIQ Pro feature only. This data is useless for macro analysis of your ride, but it's great to see what happened at a certain time. If you've dropped pins, you'll see these markers here so it's easy to see what your suspension was doing when you dropped a pin.

Sharing Files

It became clear to us early on that we needed a way to share recordings with other devices and riders, and we needed a way to do this right from the trail without a cell tower connection. So we designed MotionIQ to use Apple's AirDrop feature so you can share recordings with anyone nearby even when you don't have a network connection. Later when you get back on the grid you can share recordings with any sharing tool you might have on your phone such as iMessage or email or your favorite cloud provider. This is a great feature if you decide to rent out your kit to a customer.

File Storage

At Motion Instruments, we've captured GBs of data. We realized early on that storing these files was going to be a problem as time went on. Also, if you want to collaborate on these files, then we needed a scalable file system to make it easy to share files. Rather than invent cloud storage, we just leveraged the best of breed systems already available. We support Google Drive, Box, and Dropbox. So no matter how large your user base is, these platforms already scale. Also, depending on your sharing and security model, these features have already been built into these cloud storage platforms. Set it up once, and forget it. A cloud file system is easily navigated from MotionIQ as if the file system was local. No cables, no USB drives, no fuss. It's what you expect from a modern app.

Notes

Does this sound familiar? You test, turn knobs, and you never write anything down. Even if you do write something down, you may not understand what you wrote down weeks ago. With MotionIQ, you just open up the notes section while you are recording. Your settings are there. If you want to take a note, you don't even need to use a keyboard. Just talk into the app and MotionIQ will dictate your voice into text. Easy enough? Now you have detailed settings and notes for every recording.



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Filter

This section allows you to focus your data analysis to any particular trail segment. From a Strava segment to a Trace (Pin to Pin filter), you can focus your analysis on valid terrain.

Delete

Delete any files you no longer need.

Summary

MotionIQ provides a comprehensive analysis of your front and rear suspension. O-ring watermarks, compression and rebound stats, max speeds, etc. It's all logged. There is a vibration analysis section, Front and Rear analysis, and a bike balance analysis. The bike balance is a MotionIQ Pro feature and it details how balanced your compression and rebound is for the bike. As you make changes to your pre-load, progressivity via tokens, and clickers, you'll see the regression line slopes change. When they are the same slope, the bike is mathematically balanced. It's still up to you to decide how you want to balance the bike based on feeling. But you'll be able to correlate feeling to really accurate data.

A/B Reports

Ever wanted to look at your runs side by side? Settings, Vibration measurements, and Stroke Motion Statistics? Well, it's easy to generate a report in the field. Pick the runs you want to compare, choose the settings and measurements, hit done. MotionIQ will create a spreadsheet with all of your runs in a side-by-side format. Once you've made the report, you may want to send it to someone. All of the file transfer protocols are supported here.

Conclusion

Once you've used MotionIQ to dial in your bike, you'll never go back to the old testing method, ever. We've worked with the top OEMs in the business and they all agree, they'll never go back. The great thing is, you don't have to sacrifice what you want. MotionIQ is affordable and we have a version for you with advanced capabilities. Besides offering different price-feature tiers, you can also purchase the app monthly. So you can get the best analysis on the planet less than it costs you to fill your gas tank. Get your bike dialed in, ride, get faster, then occasionally drop back in to see where your settings are. Data is not just for the race teams, pros, and formula 1. We've designed this for you. Having looked at the systems the top race teams use, we can confidently state our system blows them all away. For a fraction of the cost of their systems, you can buy one of ours and know you've got the best data money can buy.



MOTIONIQ APP

Feature Chart

Feature Name	MotionIQ Pro	MotionIQ Expert	MotionIQ	Data Logger
Bike Profiles	x	x		
Generic Hardtail	x	x	x	
Generic Softail	x	x	x	
Bike Specific Analysis	x	x		x
Handlebar button connectivity	x	x		x
Fork Tracer Connectivity	x	x	x	x
Shock Tracer Connectivity	x	x	x	x
1 click bike calibration	x	x	x	x
1 click Sag Recording	x	x	x	x
Waveform Viewer	x			
Map Tracks Viewer	x	x	x	
Strava Integration	x	x	x	
Google Earth Integration	x	x		
GPX export	x	x		
File Export (Text, email, file share, Airdrop)	x	x		
Settings and Notes	x	x	x	x
Trash Bin	x	x	x	
Filter Page: Trace Filter	x	x	x	
Filter Page: Create Pin (manual)	x	x	x	
Filter Page: Strava Segment Select	x	x		
Summary Vibration Stats	x	x	x	
Axle Position Stats	x	x	x	
Compression Stroke Stats	x	x	x	
Rebound Stroke Stats	x	x	x	
Axle Position Histogram	x	x	x	
Deep Axle Position Histogram	x	x	x	
Compression Length Histogram	x	x		
Compression Speed Histogram	x	x	x	
Rebound Length Histogram	x	x		
Rebound Speed Histogram	x	x	x	
Bike Balance View & Controls	x			
Balance Data Chart	x			
Wheel Axle Data Chart	x			
A/B Report Generator	x			
iCloud	x	x		
Cloud Storage	x			
Access to raw data files	x			