

1080motion

BATTERY  
POWERED

# 1080 SPRINT2 OVERVIEW

MAKE SPEED HAPPEN

# 1080 SPRINT2



1080 Sprint 2 is the ground-breaking device used for horizontal resisted or assisted training and testing up to 180 m (197 yds) for e.g., sprinting, skiing, swimming, skating as well as Change-of-Direction movements. It allows for speeds up to 14 m/s (31 mph) , resisted running up to 40 kg (88 lbs.) and isokinetic resistance loads up to 70 kg (154 lbs.) Self-contained and portable with a built-in touch screen, it is internet connected for data storage and analysis. With accessories, it functions as a cable machine for repetition-type exercises such as squats, lifts, rotations, pushes, and pulls for light strength training, rehab, and testing.



# FEATURES

Large touch screen with ultra bright display

Real-time display of time, distance, speed, force, power

Quick attach mechanism for accessories

Padded carrying handle

Rechargeable 99 Wh battery permits hours of use

Dust & weather protected

<10 second start-up time

Smart self-guided features for ease of use

Portable with solid rubber wheels

Up to 180 m/196 yd line

Built-in speaker

Gear 2 anchor for heavy resistance

WiFi connected for data transfer and software updates





# SYSTEM SPECIFICATIONS

- Ranges from 90-180 m (98-196 yds) - User choice
- Continuous resistance up to 20 kg (44 lbs) in Gear 1 with movements up to 14 m/s (31 mph)
- Continuous resistance up to 40 kg (88 lbs) in Gear 2 with movements up to 7 m/s (15.5 mph)
- Maximum resistance < 3 seconds up to 70 kg (154 lbs) in Gear 2
- Maximum speed of 14 m/s, 50 km/h, 31 mph
- Weight without attachments: 25 kg (55 lbs)
- Dimensions (LxWxH): 274x304x304 mm (11x12x12 in)
- Data sampling rate: Ranges from 50-1000 hz- User choice
- Built-in 40 watt speaker
- Wi-fi connected with unique IP address
- 10.4 inch adjustable touchscreen with 1300 Lumen brightness
- 41.4 V, 160 W Universal charger with 2m/6 ft cord length
- USB-C port interface

## POWER UP!

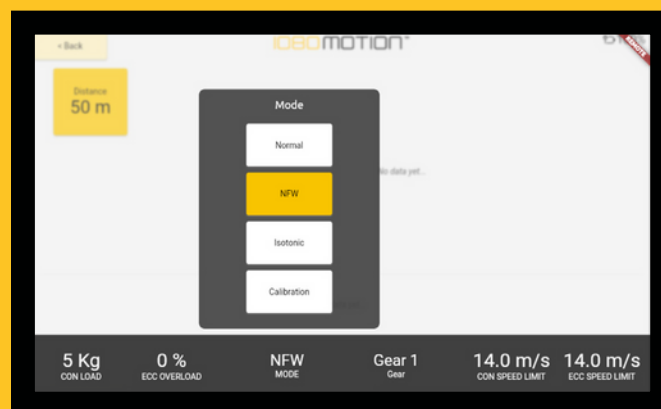


Take the 1080 Sprint 2 to the gym, track, pitch, weight room, and rink with on-demand power. The 99 Wh battery recharges with resisted movements extending battery life.

This removable battery is a type LFP (lithium iron phosphate) and has a longer life span than standard lithium-ion (NMC, NCA) and meets FAA requirements for air travel meeting the requirement of <100 Wh\*.

\*Please always check with national and local airline authorities prior to travel with battery as policies and procedures may be different than stated and subject to change.

## WiFi SCREEN MIRRORING



When connected to WiFi, freely mirror the screen to another device and review performance results.



## QUICK START

Redesigned user interface allows fast calibration and smart automatic timing that precisely measures time and distance when the athlete moves from a set position.

## LOAD AND SPEED

1080 Sprint offers sports coaches, conditioning specialists, athletic trainers, and researchers the opportunity to set both load and speed in the concentric/resisted and eccentric/assisted phase of any given movement pattern. The ability to manipulate these primary factors to performance is at the very foundation of human performance. This offers the possibility to create specific testing and training protocols for athletic development purposes or research.

## ASSISTED SPRINTING

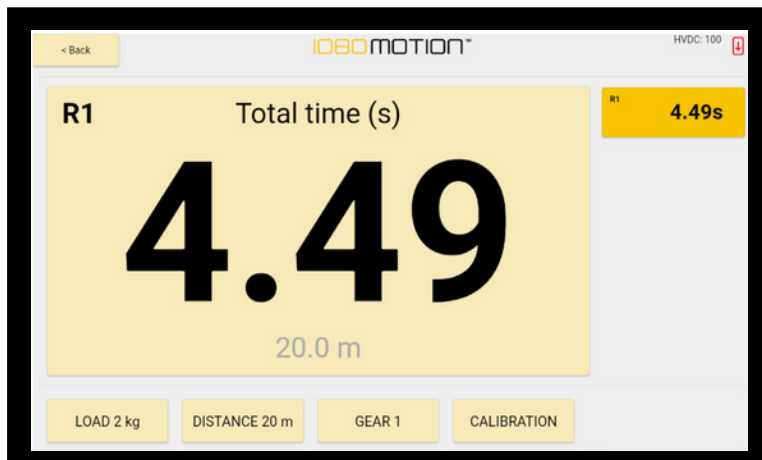
Like a perfect tail wind, the 1080 Sprint allows for neuromuscular adaptation to high speeds in a fully controlled environment. The settings enable selection of force at which the 1080 Sprint will pull an athlete towards the system, making it possible to determine and apply the most beneficial over-speed formula to each individual athlete using constant force.

# RESISTED AND ASSISTED SPRINTING



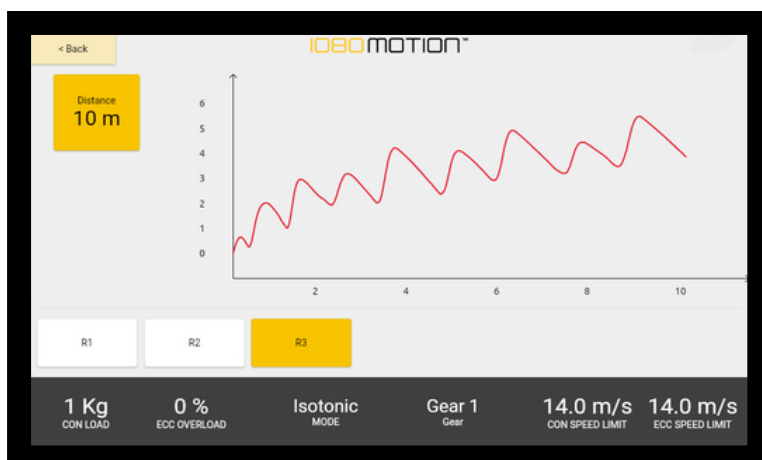
## TOUCH SCREEN DISPLAY

- Large buttons are responsive to touch with brightness engineered for observation outdoors in sunny conditions.
- Connect to Wi-Fi and control externally with a tablet.



## REAL-TIME RESULTS

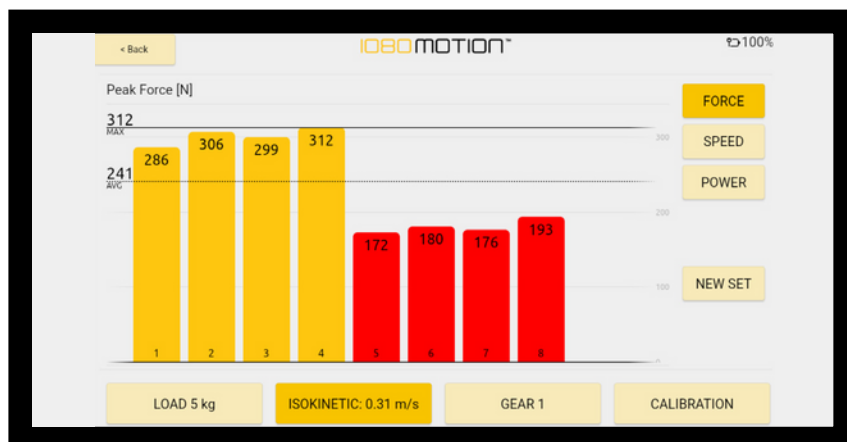
- Built in screen displays total time, distance, speed, force and power of resisted and assisted sprints.
- Measures in real-time with high-resolution data.



## INSTANTANEOUS VELOCITY GRAPHICAL DATA

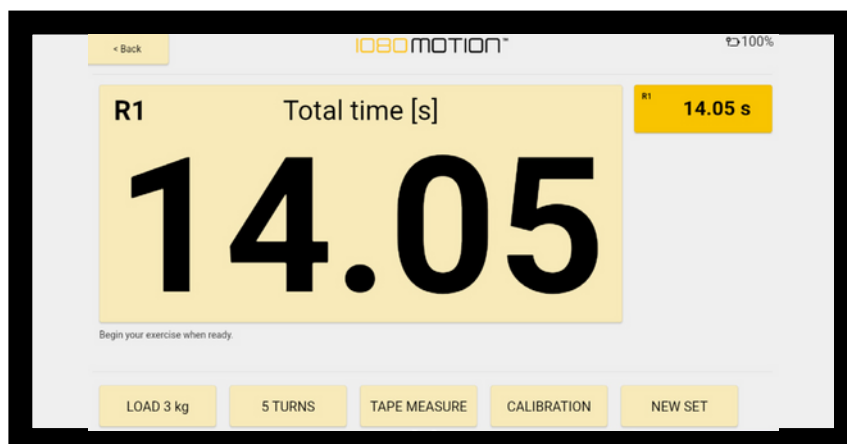
- Advanced data display showing sprinting with velocity as a function of time.
- Speed profile shows asymmetry of right and left limb performance.

# VERSATILE TRAINING MODES



## MEASURE INDIVIDUAL REPETITIONS

Peak and average force, speed and power of individual reps provide instant performance feedback. Measures in real-time with high-resolution data.



## CHANGE OF DIRECTION TESTING

Customize change of direction testing with load and number of turns. In this example, the total time to complete five turns during a short conditioning session is displayed. Users can choose from 1 - 51 turns to be measured.

## ISOKINETIC MODE

Test up to 70 kg / 154 lbs (Gear 2) concentric resistance at a set speed. Peak and average force output displayed with ability to compare right and left symmetry.

## ECCENTRIC OVERLOAD

Eccentric leg strength dictates the athlete's ability to decelerate quickly. An essential component to performance and resilience to injury. The ability to set the eccentric load up to 3 times the concentric load allows specific targeting of deceleration in a CoD task and eccentric strength of any repetition type movement.

## CHANGE OF DIRECTION (COD)

CoD is more than total time of a drill. Gain visibility into the different phases of CoD (i.e. acceleration, deceleration, re-acceleration) to better understand the athlete's ability to perform and guide individualized training in team and individual ball spots. Utilize eccentric overload to target deceleration capacity of different patterns.



# ACCESSORIES



**QUICK ATTACH WALL MOUNT**



**MULTIPLE CORD LENGTH OPTION**



**QUICK ATTACH HANDLE**



**QUICK ATTACH RACK MOUNT**



**ICE SPIKE**



**SECOND GEAR PULLEY**



**TRAVEL CASE**

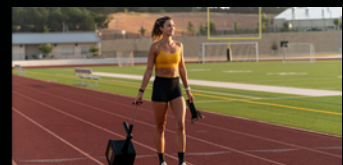
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Rehab and Testing [click to watch](#)