



Extreme precision. Live tracking and timing data without infrastructure

TECHNICALS SPECIFICATIONS

TRACKERS	GNSS RTK L1/L2 ^{(1) (2)} IMU 9 axes, 100Hz, 14 bits LPS par UWB
DATA TRANSMISSION	GPRS/ 2G/ 3G/ 4G RF 2,4GHz Crystal 8 ⁽³⁾ Bluetooth 5.0
STANDARDS ⁽⁴⁾	CE/ FCC/ IP57/ World Rugby/ FIFA
BATTERY	LiPo 800 mAh
CHARGING	Charging case of 20 QI technology chargers spots
DIMENSIONS (x w x h)	9.8 x 4.9 x 2.4 cm 89g
MEMORY	NAND Flash 1Gb

¹ Update rate: 10 Hz

- Time-To-First-Fix: Cold start 26 s ² RTK Convergence Time: 10 s
- ³ Crystal 8: proprietary data transmission
- b) protocol. No interference even in highly saturated RF environments.
 4 Certification in progress.
 5 Error measured on race test in a straight

line at 15km/h in open space.

⁶ 50% CEP in open space.

- ⁷ 50% at 15km/h in open space.
 ⁸ 50% at 5m/s² in open space.
- ⁹ IMU: MEMS inertial unit : accelerometer 3 axes: linear
 acceleration in g, +/- 16g
 accuracy: 1 BPM
 range: 30 à 240 BPM

- ¹¹ 3h of training per day, 5 days/week

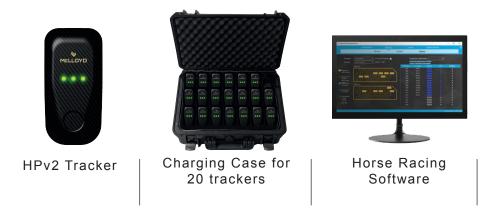
FUNCTIONNALS SPECIFICATIONS

ACCURACY	
distance ⁽⁵⁾	0.2%
location ⁽⁶⁾	0.01m (outdoor) / 0.2m (indoor)
speed ⁽⁷⁾	0.02m/s
acceleration ⁽⁸⁾ IMU ⁽⁹⁾	0.1m/s ²
	0.01g / 0.5deg/ 0.02deg/s
AREAS	stadium/ outside/ indoor
RANGE OF SIGNAL	100m (with antenna)
	3G/4G all phone operator
AUTONOMY	4h live/ 6h offline
	6days standby
CHARGING	80% in 2h / 100% in 3h
MAXIMUM USERS	live: 60u/ offline: 500u
STRENGH	300kg/ submersible 1m
RESISTANCE	
OPTIONS	software Team Sport
	antenna live USB
	cardio ⁽¹⁰⁾
INTERFACE	button/ screen OLED
MEMORY ⁽¹¹⁾	30days



MCLLOYD

PACKAGE



HPv2 the only centimeter precision tracking system, making less than 90g. This extreme precision is achieved by combining a very high-quality GPS (RTK L1 / L2) with relative distance measurements between trackers (UWB). This system is the subject of several patents owned by Mac-Lloyd. HPv2 does not require any heavy infrastructure installation on site. It can be used in a fixed system on a racetrack as well as in a mobile system. The tracking system combined with the course analysis algorithms provide a sectional timing of 1 / 100th of a second. This precision can be improved to 2 / 1000th of a second by positioning on the track of the reference terminals to the key gates. The system is multi-disciplinary, suitable for all disciplines: flat, obstacles, trotting, riding trot.

OPTIONS



CARDIO Equine cardiofrequencemeter scabbard. Stand around the saddle strap and communicate in BLE. Unique size.



SECTIONAL TIMING Reference terminal UWB makes it possible to increase the accuracy at passing gates at 2 / 1000th of a second.



APP VIRTUAL REALITY The race reconstituted in real time thanks to the tracking data. Put yourself in the caveman's shoes with a VR headset.



INCREASED REALITY Tracking data displayed in real time on the giant screen.