





This report details the performance test carried out in accordance with the test protocol for Electronic & Performance Tracking Systems





REALTRACK Wimu Pro GPS



Product details

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Manufacturer	Realtrack
Product Name	Wimu Pro GPS
Serial number	
Firmware version	8.5
EPTS Type	GPS

Date	22nd November 2018	
Location	Barcelona Mini Estadi	
Submission deadline met	1 hour post testing	
Satellite availability (GPS)	13 - 16	
Certification Expiry Date	11/02/2021	
Age of participants	Under 13	

Fulfilment of test requirements

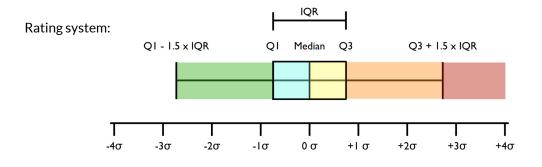
Test block	Capture & Submission
Circuit	\checkmark
2 v 2 Game	\checkmark
3 v 3 Game	\checkmark
5 v 5 Game	\checkmark
Full Pitch Coverage	$\sqrt{}$

Data processing

Process	Comments
Data export	No issues noted - csv file format provided for each player
Time stamp	Consistent 10 Hz
File matching	Files matched using cross-correlation method
Other	

Analysis interpretation

Measure	Definition
Root mean square difference (RMSD)	A commonly used measure of accuracy based on the sample standard deviation (σ) of the differences between the manufacturer and Vicon system. A large sample of RMSD values from
	GPS, LPS & Optical manufacturers comparisons were used to set the ranking criteria.
Data points	Varies depending on the quality of Vicon capture, as only the highest quality data is used for
compared with Vicon comparative purposes.	



Legend:

Well-above industry standard
Above industry standard
At industry standard
Below industry standard
Well-below industry standard



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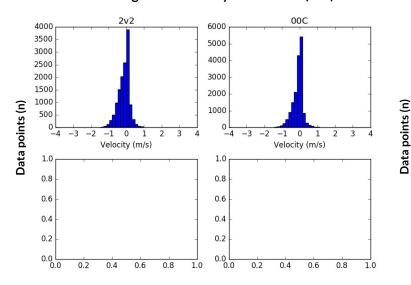


Rating by FIFA Velocity Band



^{*}N/A: No comparison available due to velocities not being achieved by participants

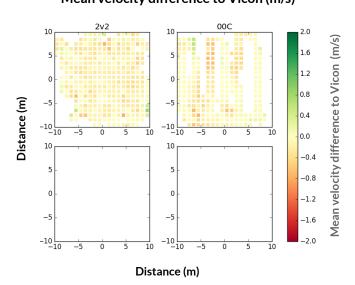
Histogram of Velocity Differences (m/s)



Histogram of Position Differences (m)

Not assessed

Mean velocity difference to Vicon (m/s)



Mean position difference to Vicon (m)

Not assessed

Distance (m)