



# OPTi-Sport Refractometer

FOR MONITORING HYDRATION LEVELS OF SPORTS-PERSONS & ATHLETES



In today's highly competitive sports arena, world class athletes no longer rely on hard work and determination alone to achieve their goal; sports science is now a key to success and refractometers play a vital role in ensuring optimum levels of hydration are maintained during training and competition.

The OPTi-Sport hand held refractometer hygienically provides measurement in two scale formats; one for measuring the sugar content of liquids ingested and more importantly a second scale to monitor urine specific gravity, which is directly linked to hydration.

Bellingham + Stanley designed OPTi digital hand held refractometers are manufactured in the UK as highly reliable premium quality instruments suitable for use in the harshest of environments across a wide application scope.

OPTi refractometers are constructed using the latest manufacturing techniques including stainless steel injection molding to construct the easy clean prism dish, ultrasonic welding to bond the housings and a rubberized switch membrane to further protect against moisture ingress and excess wear.

- Dual Scale - °Brix & Urine Specific Gravity
- Four decimal place LCD for Urine SG
- Temperature Compensation (ATC)
- Touch-of-a-button temperature display with °C or °F option
- Unique measurement verification mode using long-life AG Fluids
- Certificate of Calibration showing traceability to ICUMSA and NIST
- Stainless steel prism dish for rapid sample temperature stabilization
- Robust & Ergonomic design to IP65



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# Simple hand held refractometer hygienically monitors hydration levels of world class athletes



## General Specifications

Scales	°Brix Specific Gravity (SG) - Human Urine
Temperature Compensation (ATC)	ICUMSA (°Brix)
Ambient Temperature Range	5-40°C
Battery Life	10,000 readings (2 x AAA/LR03)



## OPTi-Sport Specifications

Code	Type	Scale	Range	Resolution	Accuracy	ATC
38-52	Sport	A Urine SG	1.000-1.050	0.0005	±0.001	Bx
		B °Brix	0-30	0.1	±0.2	Bx

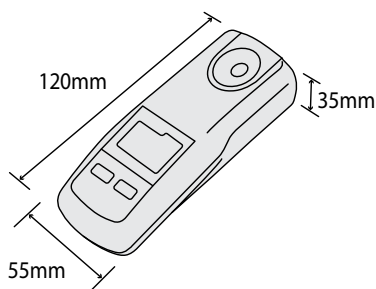
## Accessory Items

Code	Description
80-080/10	Disposable Pipettes - 1ml volume - pack of 10
80-080/500	Disposable Pipettes - 1ml volume - pack of 500
38-016	Belt Pouch

*"The OPTi-Sport urine analysis equipment provided by Bellingham + Stanley, a Xylem brand, provides the Great Britain and England Hockey Teams with scientific evidence to support their hydration protocols during training and competition. This allows elite players the opportunity to optimise their performances and junior players an education tool."* Laura Hanna, National Physiotherapy Manager, Great Britain and England Hockey.

## Operation is as simple as one, two, three...

1. Select the scale and using a pipette, fill the sample dish.
2. Wait 10-seconds for the sample to reach temperature equilibrium.
3. Press the read button and in just 2-seconds, the result will be displayed.



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