Customer Validation

Bodytrak

Challenge	 Customer validation trial in the Defence Services sector where participants completed an exercise while wearing a pilot flight suit and either a pair of over-ear headphones or a full-size pilot helmet. This was to determine the effectiveness of the Bodytrak system at measuring heart rate and core body temperature as well as user comfort and wearability. The trial took place in a controlled environmental lab set at 35°C/95°F with relative humidity of 55-60%. Participants wore a chest strap and ingested a gastrointestinal pill to act as the control measures for heart rate and core body temperature, respectively. 	
Results	 Participants were able to wear the device while wearing fighter pilot clothing and completing an interval cycling protocol for the complete trial. 	
	 Heart rate data showed a strong correlation (r = 0.95) to the control with a mean absolute error of 2.87 bpm consisting of multiple quick changes between exercise and rest periods. 	
	• The protocol led to all participa 38.4°C being the highest core l	 The protocol led to all participants having a raised core body temperature with 38.4°C being the highest core body temperature observed.
	 Core body temperature data h the gastrointestinal pill (GI) whi method of measurement. Body is cost-effective and provides a 	ad a mean absolute error of 0.18°C compared to ich shows that the GI pill is not the only accurate ytrak is a reliable non-invasive alternative which a comprehensive suite of additional features.
Final Summary	 The results show that the Bodytrak device aligns well with control measures for heart rate and core body temperature. 	
	The particpants demonstrated PPE and during exercise in a hopping physical workload.	that the Bodytrak device can be worn with ot environment with a moderate-high
B	For more information visit www.bodytrak.co	Or speak to the team +44 203432 5439 sales@bodytrak.co