

**www.pipehawk.com**

**PipeHawk plc**  
Underground Intelligence



# e-Spott<sup>TM</sup> HF

**THE SPOT TESTING SYSTEM FOR ASPHALT FOOTWAYS**



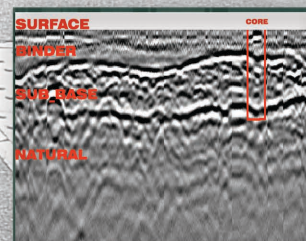
**OVER 50% SMALLER THAN  
e-SPOTT FOR CARRIAGEWAYS**



**DUAL CALIBRATED DISPLAY  
FOR GREATER ACCURACY**



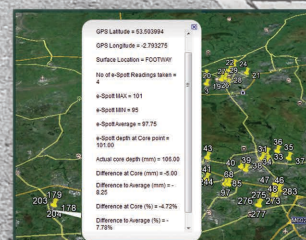
**READINGS & GPS COORDINATES  
STORED AUTOMATICALLY  
TO MEMORY CARD**



**OPTIMISE VALUE OF LIMITED  
CORING BUDGETS**



**OVER 150 READINGS FROM ONE  
SET (8 x AA) BATTERIES**



**VISUALISE TRENDS BY IMPORTING  
DATA TO GIS or 3rd PARTY  
MAPPING SYSTEMS**



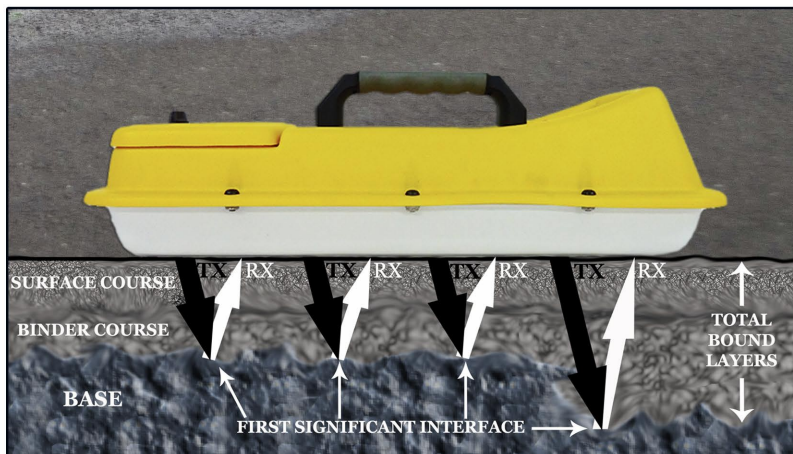
**WHY  
CORE?**

**IF YOU DON'T HAVE TO!**



## SPECIFICATION

### Operation



The nature of materials and construction method used to form the surface and binder layer of a footway or carriageway will normally have little effect on operation of the system allowing it to distinguish between these and the base layer by their dielectric properties, where there is a significant difference between them. The first significant layer interface and the most significant layer interface may therefore be reported as being one and the same or entirely different interfaces. In all situations where a discernable interface cannot be found, no reading will be given and \*\*\* will be displayed.

The e-Spott<sup>HF</sup> is an advanced system designed specifically to measure the Total Bound Layer Depth of asphalt surfaces such as those typically used for footways and minor carriageways.

#### ALL WITHIN 20 SECONDS OF PRESSING THE BUTTON

Once the operator has activated the system by pressing the one and only button signals begin to be transmitted into the ground. These are reflected back to the surface from any discernable material change and automatic recognition software is applied to identify those signals returning from both the first significant layer interface and the most significant layer interface. At the same time advanced signal processing determines the relevant velocity of propagation for these layers, translates them into depth readings and records the results onto the removable SD card, along with coordinates for the location from the built-in GPS module. The results are simultaneously sent to the LCD display, for the immediate benefit of the operator and all of that happens within 20 seconds of pressing the button.



### Dimensions & Main Features

Antenna Frequency	1200MHz - 4.5GHz Centre Frequency 3 GHz
Antenna Type	Bow Tie Array
Unit Length, Width, Height, Weight	490mm x 165mm x 150mm x 2Kg
Display Screen	60mm x 15mm Sunlight readable LCD
Average time to GPS Acquisition (first use)	3-5 minutes
Average expected GPS accuracy	+/- 5m
Average time to acquisition of Spot reading	Under 20 seconds
Average expected Spot reading accuracy	+/- 5mm
Detection Range Min-Max	35mm - 300mm
Battery Type	8 x AA Alkaline
Battery Life	Over 150 Readings

Head Office

Your Local Contact

## PipeHawk plc

4 Manor Park Ind' Estate  
Wyndham St. Aldershot  
Hampshire GU12 4NZ  
United Kingdom

Tel. +44 (0)1252 338959  
Email. [info@pipehawk.com](mailto:info@pipehawk.com)  
Web. [www.pipehawk.com](http://www.pipehawk.com)