



CLEAN WATER



# Touch Pro TM

*High Performance Trunk Main Correlator*



## Key Features

- ✓ Specifically designed hydrophone & amplifier technology
- ✓ Upgraded processing Electronics
- ✓ AFIS - Automatic Filtering intelligence system.
- ✓ High visibility colour VGA Touch screen.
- ✓ Faster and cleaner correlation results
- ✓ Easy to use
- ✓ Compact, portable design.
- ✓ Robust construction.
- ✓ In case charging.
- ✓ High Impact PC/ABS Casework
- ✓ High quality upgraded long range telemetry

## Overview

The Touch Pro™ from HWM, represents a breakthrough in leak detection technology. It features “best in class” sensors providing new levels of sensitivity across the widest frequency range. This enables it to give the best performance in traditionally difficult conditions, such as on plastic and large diameter pipes.

The new TM unit is supplied with hydrophone sensors and specifically designed amplification for trunk main leak detection

## High Quality

New radio transmission hardware has been introduced to provide improved quality of signal over the longer distances of operation on transfer mains.

The large screen clearly displays correlation results and supportive information and an innovative high contrast mode enables good visibility even in bright sunshine.

## AFIS

The unique Automated Filtering Intelligence System (AFIS) automatically runs up to 55 different filter combinations on each correlation, checking the quality of the result and optimising the filters until the best result is obtained. AFIS works with both live and pre-recorded correlation data, and makes manual filter setting a thing of the past by effectively building an “expert user” into the unit.

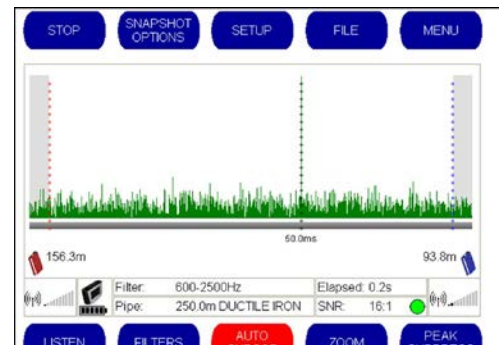
## Robust

The purpose designed robust case not only carries and protects all components but allows the base station and outstations to be charged from a single power lead, and displays charging status. Units can be stowed with sensors still connected for faster deployment in the field.

Using our extensive experience of correlator design and manufacture, HWM have created an easy to use system that delivers the best all round performance at a highly competitive price.



**Faster and cleaner correlation results**



## Touch Pro – Technical Specification

### CONTROL UNIT

<b>Filter selection</b>	Manual, FFT, Coherence and Tri Filter Correlation. Pipe-data related default settings
<b>Resolution</b>	± 0.1m
<b>Display</b>	High Visibility Full Colour VGA
<b>Antennae</b>	External antenna/magmount
<b>Battery type</b>	Rechargeable Lithium ion batteries, field replaceable
<b>Battery life</b>	12 hours (Rechargeable) in Case
<b>Type of keypad</b>	Touch Screen interface
<b>Key functions</b>	<p><i>Enhanced Low Noise processing</i></p> <p><i>Improved radio system, low noise, long range</i></p> <p><i>New Tuned Hydrophone interface</i></p> <p><i>Automated Filter Intelligence (AFIS)</i></p> <p><i>Combined correlation/survey mode</i></p> <p><i>Listen (acoustic survey)</i></p> <p><i>Frequency analysis</i></p> <p><i>Peak suppression</i></p> <p><i>User definable pipe types &amp; velocities</i></p> <p><i>Intuitive user interface</i></p> <p><i>In case charging</i></p>
<b>Language</b>	Selectable via menu
<b>Operating software</b>	MS Windows-CE embedded.
<b>Printer output</b>	USB to PC software-enabled printing
<b>PC download</b>	Via PC software, Windows-compatible software
<b>Dimensions</b>	Height to Top: 90mm Width: 250mm Depth: 180mm
<b>Weight</b>	1.9kg
<b>Operating temp</b>	-15°C to +50°C
<b>Environmental</b>	IP65
<b>Enclosure</b>	High Impact PC/ABS plastic
<b>Connectors</b>	Military specification Amphenol-Type
<b>Diagnostics</b>	Self-test and auto-calibration on power-on

### OUTSTATION

*Optional 1 or 2 Radio Outstation Systems*

<b>Radio Freq.</b>	Local regulations apply
<b>Connections</b>	Headphones, External antenna, Charging
<b>Battery type</b>	Rechargeable Lithium ion batteries, field replaceable
<b>Battery life</b>	12 hours (Rechargeable)
<b>Antenna</b>	External antenna
<b>Dimensions</b>	L 200mm W 135mm D 50mm
<b>Weight</b>	0.87kg
<b>Environment</b>	IP65
<b>Housing</b>	High-impact PC/ABS plastic
<b>Connectors</b>	Military specification Amphenol

### SENSOR

<b>Frequency Response</b>	d.c.- 5000Hz, High V/g
<b>Environment</b>	IP68, rubber shroud for shock protection
<b>Connection</b>	2m/3m/5m cables with strain relief Military spec connector

**Hydrophones** Available as option with tuned auto gain interface

### CASE

**Charging** In case charging through mains or 12V vehicle supply. Case indicates charge for all components



