Hexcorder PRO
CIPS/DCVG/GIS Survey System

Benefits
- Can perform three different types of survey at the same time, CIPS, DCVG and GIS mapping
- All data obtained at the same place & time under the same field conditions
- Easily correlate cathodic protection data with coating integrity data to better prioritize remediation
- Stored waveforms allow the user to capture electrical interference
- GPS location data can be imported into mapping software
- Available integration with Bluetooth enabled pipe locators allows storage of depth of cover and signal strength data
- PODS compatible data stored as a .csv text file
  ⇒ **No special software required**
  ⇒ Easy to open and graph in any standard spreadsheet or import into your database program
- Software upgradeable by customer
- Optional sub-meter GPS with <10cm global precision available
- Optional custom tailored on-site survey training is available
- Comprehensive 2 year warranty!

User Experience
- Purpose built by corrosion professionals for corrosion professionals
- Large rugged Mil Spec touchscreen tablet user interface
- Custom graphics based App, easy to navigate, easy to learn
- Multiple languages supported
- View any 2 of 5 available screens,
  ⇒ Table, Graph, Map, Bird’s Eye, Analog Gauge

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Hexcorder PRO
CIPS/DCVG/GIS Survey System

**Included**
- Hexcorder Pro assembly with integrated tablet
- Wire dispenser with one spool of survey wire
- Choice of:
  - Hip pack - short surveys, urban areas
    - 2 km (1.25 mile) survey wire
  - Back pack - long, across country surveys
    - 16 km (10 mile) survey wire
- 2 x half cell extension poles
- 2 x Cu/CuSO₄ reference electrodes
- Ergonomic four point shoulder harness
- Survey pole and wire dispenser cables
- WAAS enabled GPS antenna
- Universal AC chargers for Hexcorder Pro and tablet
- USB cable
- Rugged carrying case
- Operation manual

**Features**
- 10 different survey modes including Close Interval (CIPS), multiple DCVG channels, multiple impedance
- Work with interruption cycles as fast as 1 second
- User customizable alarms for change in potential, DCVG indication & broken trailing wire can be enabled to help ensure data integrity
- Records chainage, date, time, altitude and GPS location data with each reading
- Integrate with all Bluetooth enabled Radio Detection and Vivax Metrotech pipe locators to store depth of cover and signal strength data with CIPS & DCVG readings
- Active AC filter to remove the effect of induced AC up to 100V
- Run time of Hexcorder Pro is 24 hours, tablet is 11 hours under field conditions, optional extra batteries are available for the tablet
- Rugged, sealed, quick connect push-pull connectors
- Reads and stores waveforms
- Comments can be easily entered into the data stream
- User programmable GPS offset to work in local time
- App support multiple languages
- Designed to satisfy IP65 and EN61010 standards
- Comprehensive 2 year warranty
**Technical Specification**
- **Range:** CIPS: +/- 5 V DC, DCVG: +/- 500mV DC
- **Resolution:** 0.1 mV DC for all readings
- **Memory Capacity:** Supplied with 4 GB or larger micro SD card
- **CIPS Impedance:** 25 M Ohm or 250 M Ohm
- **DCVG Impedance:** 15 M Ohm
- **AC Rejection:** -90 dB at 60 Hz, <3mV DC error at 100 V AC RMS superimposed
- **Case:** ABS plastic, designed for IP65
- **Instrument Size:** Hexcorder Pro with tablet assembly 30 x 25 x 10 cm @ 2.7 Kg
- **Connectors:** IP67 rated, push-pull
- **Battery:** Lithium Ion, 3.7V 33Whr = approx. 24 hours run time
- **Communications:** USB 2.0, 2 x Bluetooth 2.0
- **GPS:** Fully integrated WAAS GPS antenna
- **Shipping Dims:** Hip pack system as 1 piece 10 x 10 x 120 cm @ 2.8 Kg + 1 piece 53 x 23 x 45 cm @ 9.8 Kg Backpack system as 1 piece 108 x 45 x 38 cm @ 24 Kg

**Tablet Specification**
- **ratings:** Ruggedized, MIL-STD-810G and IP65
- **Operating System:** Android 5.1 Lollipop
- **Memory:** 4 GB RAM, 64 GB SSD
- **Display:** 10.1” WXGA (1366 x 768)
- **Primary Battery:** Lithium Ion, 39 Whr
- **Secondary Battery:** Lithium Ion, 59 Whr, hot swappable = approx. 11 hours run time under normal operating conditions
- **Communications:** Wireless LAN 802.11ac, Bluetooth 4.0
- **Ports:** DC power, 2 x USB 3.0, Micro SDXC, Micro HDMI, Headphones
- **Camera:** 5 MP rear with flash, 2 MP front

**Specifications subject to change without notice**

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# Hexcorder PRO

**CIPS/DCVG/GIS Survey System**

## 10 Survey Modes

<table>
<thead>
<tr>
<th>Survey Type</th>
<th>Measures</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIPS / CIS</td>
<td>Standard close interval survey</td>
<td>Evaluate the level of Cathodic Protection (CP)</td>
</tr>
<tr>
<td>DCVG</td>
<td>Standard DCVG survey</td>
<td>Evaluate the coating condition</td>
</tr>
<tr>
<td>CIPS + DCVG</td>
<td>Combined CIPS and DCVG survey</td>
<td>Evaluate CP and coating in one pass</td>
</tr>
<tr>
<td>2 channel DCVG</td>
<td>DCVG survey in two directions, Left &amp; Right</td>
<td>Confirm defect location &amp; current flow - useful in areas with a lot of stray current</td>
</tr>
<tr>
<td>CIPS + 2 channel DCVG</td>
<td>Add CP evaluation to 2 channel DCVG</td>
<td>Also called Side Drain Survey</td>
</tr>
<tr>
<td>4 channel DCVG</td>
<td>DCVG in 4 directions; left, right, front, rear</td>
<td>For complex survey areas to pinpoint the coating defect</td>
</tr>
<tr>
<td>Double impedance CIPS</td>
<td>Each CP reading is taken at both input impedances,</td>
<td>Calculate the true polarized potential - very useful in high resistivity soils</td>
</tr>
<tr>
<td>Double impedance CIPS + DCVG</td>
<td>Double impedance CP survey with DCVG</td>
<td>Add coating evaluation to a true potential survey</td>
</tr>
<tr>
<td>Parallel CIPS</td>
<td>Evaluate CP on two parallel, electrically connected pipelines</td>
<td>Perform two surveys with one instrument</td>
</tr>
<tr>
<td>Double impedance CIPS + 2 channel DCVG</td>
<td>Add 2 DCVG readings to double impedance CP survey</td>
<td>Calculate the true potential and confirm defect location in areas of stray current</td>
</tr>
</tbody>
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Distributed By:

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