



## 4Inspection Cable Scanner 1.0

The Tech4Imaging 4Inspection Cable Scanner 1.0 provides fast and accurate information about the condition of external cables and pipes. The 4Inspection Cable Scanner 1.0 noninvasively analyzes the contents of these members in an efficient manner and provides inspectors with critical information about the soundness of these components. The 4Inspection Cable Scanner 1.0 determines the internal condition of a cable by detecting nonmetallic contents, and so is useful for finding air and moisture. The instrument design is scalable to fit around any cable. The light weight, fast data capture speed, safe use, and wireless operation of the 4Inspection Cable Scanner 1.0 make it the ideal tool for collecting large volumes of quantitative data about the status of external members, cables, and pipes. This technology was a finalist for R&D Magazine's top 100 innovations of 2015.

The 4Inspection Cable Scanner 1.0 operates using Electrical Capacitance Volume Tomography. Low-power, low-frequency electrical signals nondestructively analyze a 3-D space surrounded by the instrument. These signals are transferred wirelessly to a computer hosting Tech4Imaging's custom software which translates the data into meaningful information about the measured volume.

By providing inspectors with an easy-to-operate software interface, the cable inspection process is made seamless and efficient. Tech4Imaging's analysis software makes device operation and data organization simple. Reporting is expedited via the use of saved images and quantitative measures on the size and location of various cable faults. All of these benefits translate to less time, personnel, and money spent on the inspection of external members.



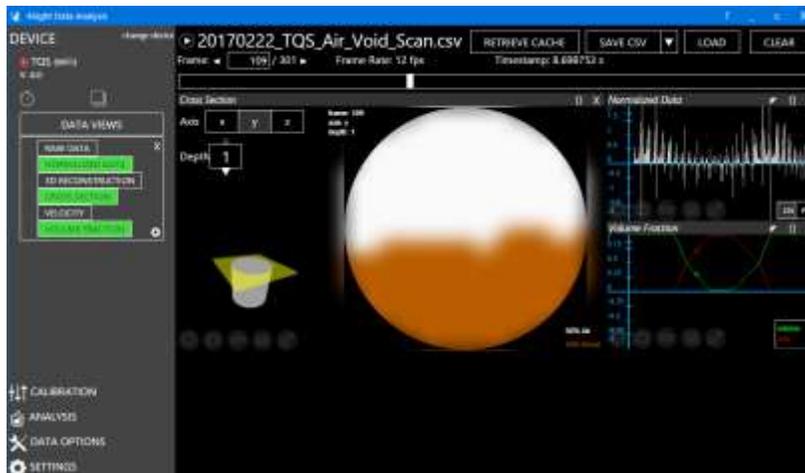
### 4Inspection Cable Scanner 1.0 Facts

<b>Used on</b>	<ul style="list-style-type: none"> <li>External Tendons</li> <li>Stay Cables</li> <li>Rigid, Non-Metallic Piping</li> </ul>
<b>Detectable Fault Types</b>	<ul style="list-style-type: none"> <li>Air Voids</li> <li>Wet/Soft Grout</li> <li>Moisture</li> </ul>
<b>Detectable Fault Size</b>	At least 1.5 in. <sup>2</sup> (on 4.5 in. diameter cable)
<b>Device Weight</b>	16 lbs. (4.5 in. diameter model)
<b>Battery Power</b>	Rechargeable NiMH 9.6 V cells
<b>Battery Life</b>	Up to 8 hours
<b>Operating Temperature Range</b>	-40°F to 160°F
<b>Data Transfer Method</b>	802.11n Wi-Fi connection to PC (100 ft. range)
<b>Data Transfer Speed</b>	Up to 50 frames (images) per second
<b>Saved Data Formats</b>	<ul style="list-style-type: none"> <li>CSV</li> <li>PNG</li> <li>PDF</li> </ul>



## 4Sight Data Analysis Software

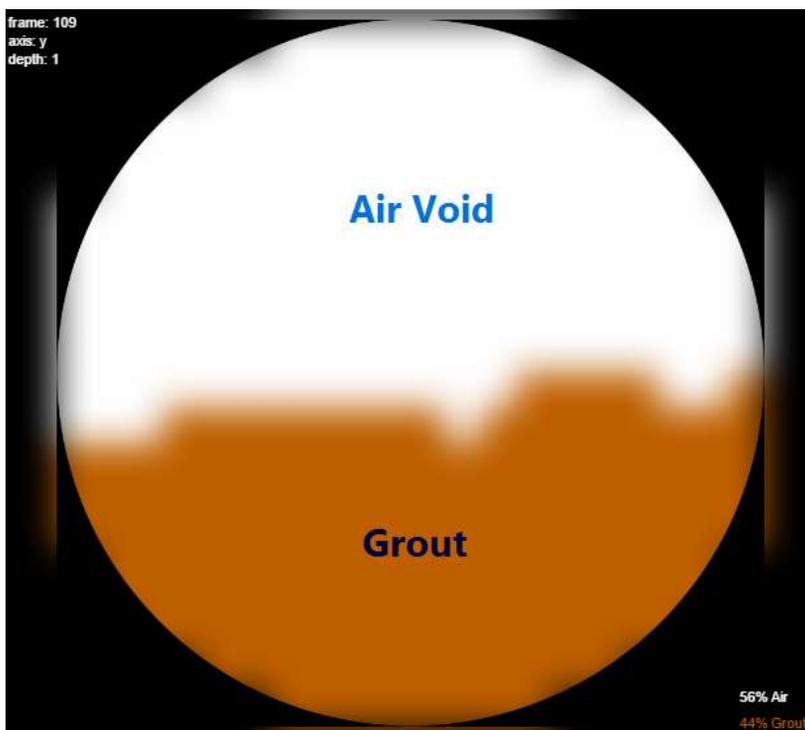
In conjunction with the Tech4Imaging Cable Scanner 1.0 comes Tech4Imaging's 4Sight software. This software is customized to provide quick and clear information about the status of scanned external cables in real time. Data is sent wirelessly from the Cable Scanner 1.0 to a host PC containing this software, which translates the scanner data into a human readable format.



Volume fractions of air, moisture, and non-metallic materials within the cable are presented. 2D and 3D images show the size and location of various cable faults, which allow onsite decisions to be made. This information can be saved in .csv and .png format, as well as .pdf format to assist in the reporting phase of projects.

**4Sight offers multiple ways to save and view your data onsite and offsite.**

When you choose Tech4Imaging to assist in your non-destructive testing needs, you gain access to both our hardware and software to speed up the inspection process from project outset through final reporting.



**Real-time images provide information about the size and location of various faults.**