



# Inspect<sup>TM</sup>



## ENTERPRISE-LEVEL AUDIT REPORTING

[www.ambrit.com/inspect](http://www.ambrit.com/inspect)



## Introduction

Performing a metrology audit is a complex process, typically involving many people from different engineering disciplines, companies and locations. Historically the audit process has lacked a central focus and each auditor has been responsible for creating their own reports, leading to inconsistent results and formatting; problems with version control and audit management; and decreased accuracy and accountability.

Ambrit Ltd. has developed the next generation of audit management software, Inspect™, which uses the latest web technology to manage the



entire audit process online. Inspect™ replaces the multitude of uncontrolled, disconnected audit reports with a centralized web based system that enables authorized personnel to share and collaborate on key audit data across multiple assets. Auditors enter their findings against strictly defined inspection criteria to produce a standardized audit report. All findings are tracked until they are closed out, maintaining a complete audit history throughout the process.

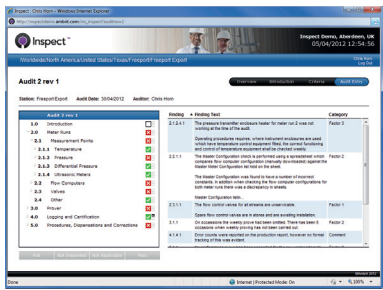
## Audit Creation

The measurement coordinator is often responsible for several metering stations. Using Inspect™ they can regulate the audit programme, setting up common inspection criteria across all the stations.

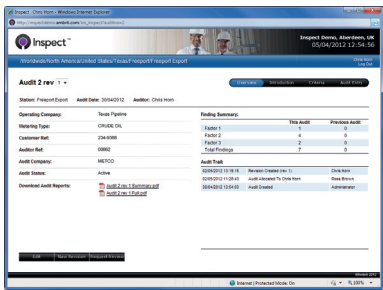
Once the inspection criteria have been set up, the lead auditor is automatically notified by email so they can appoint an auditor to implement the audit. The auditor is emailed the access details, downloads the audit to their laptop and visits the site to perform the audit. Working offline, they enter their findings, comments and recommendations against each item, supporting their findings with file attachments such as pictures, video and other documentation.

At the end of the visit, the findings are transferred back to the Inspect™ server and the audit data can then be viewed online, allowing the auditor and other members of the audit team to collaborate with each other to review the findings and add comments as required.

Each step of the audit process is tracked by an automated revision control mechanism, ensuring that no data is lost and a full revision history is maintained.



▲ Audit Entry



▲ Audit Overview

## Audit Reports

Once the review is complete the final audit report is published and made available to interested parties. The audit report is pre-formatted with a title page, table of contents, introduction, individual findings, attached links, photos and page numbers, ensuring every report has a consistent look and feel, regardless of the author.

Over time, Inspect™ builds a library of every audit report that has been issued on every station. Registered users can log on to view the latest published audit or any previous audit report to which they have access. These reports can be downloaded as a PDF document to their computer.

## Findings

The station manager can view a complete list of findings from each audit report for the stations that they manage. Outstanding findings can be addressed individually along with follow up comments and closed out once complete. Any remaining issues are automatically carried forward to the next audit report.

The number of open and closed findings, broken down by risk factor, for each audit report can be viewed as a list or chart to provide an overview of how well a station is managing its outstanding findings.

Inspect™ also summarizes findings as a graphical heat map with findings highlighted in red, orange, yellow or green depending on the seriousness of the issue. The heat maps can be used to check the performance of a single station, compare stations on the same audit programme or highlight common issues that may be affecting the whole system.

## Metrology

Audit reports on their own don't give a complete picture of how metering instrumentation is performing; metering data from many other sources must be taken into account. Inspect™ is part of the Metrology suite which also includes applications for data collection, meter performance management, calibrating equipment and recording logbook events:

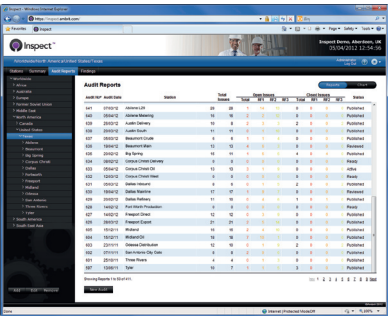
- Profile™** Data collection and reporting
- Approve™** Meter performance management
- Calibrate™** Calibration management
- Inspect™** Audit management and reporting
- Record™** Inventory and event logbook

The applications can be deployed as stand alone solutions or linked together to provide a unique platform for collection, analysis and reporting of metering data.

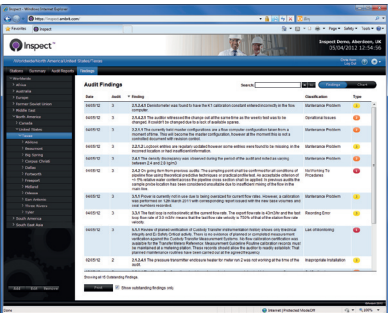
## Inventory™

At the heart of Metrology is Inventory™, an equipment register which maintains a record of all the equipment in service on every asset, including location, model number, manufacturer, serial numbers and service status.

Once the equipment has been defined in Inventory, it can be shared with any of the other products in the Metrology suite and integrated with Acquire™, Ambrit's data acquisition and control system.



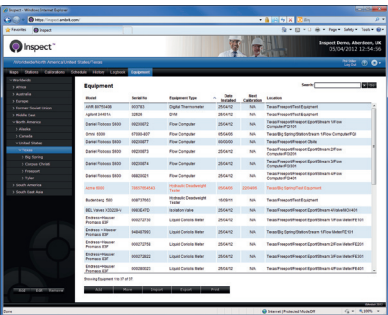
▲ Audit Reports List



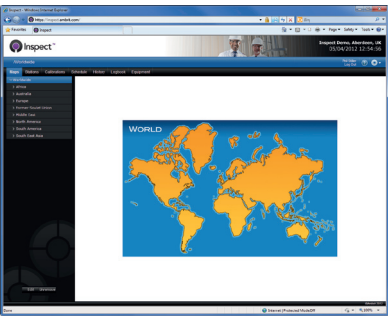
▲ Audit Findings



▲ PDF Report



▲ Equipment List



▲ Map

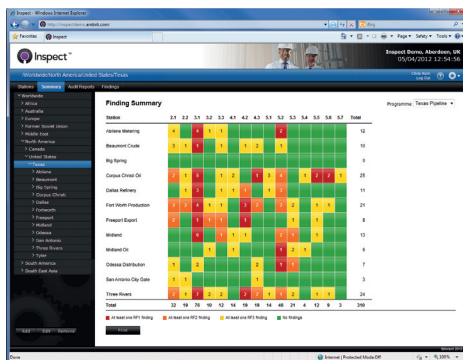




Ambrit Ltd.'s leading edge web technology, is reflected in the new Metrology suite of web enabled metrology asset management applications, created to streamline the collection and management of metering data.

Inspect™, one of the elements of the Metrology suite, is a web enabled application designed to maintain control of the complete audit process, from initiating the audit criteria to the issue of the final audit report and management of corrective actions.

With Inspect™, audit reports and their findings can be shared instantly and securely across the entire corporate intranet or securely over the Internet, providing technicians, auditors, operations and management with easy access regardless of their location.



A unique feature of Inspect™ is its ability to share data with any of the other applications in the Metrology suite. For example, data can be transferred automatically from Inspect™ to a Record™ logbook to record key audit events. The audit data is interlaced chronologically with the logbook data to provide a comprehensive audit trail.

Inspect™ uses Inventory™, a generic database of locations and equipment that can be shared with the other Metrology applications to extend audit data to other aspects of metrology asset management.

It's not just about the software. Ambrit expertise is on hand every step of the way to help create the ideal auditing solution.



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## Features

- Multiple installations / multiple stations
- Audit programme management
- Custom audit criteria templates
- Audit scheduling
- Online / offline audit entry
- Finding entry with recommendations, comments and attachments
- Document revision control
- Post audit review and sign off controls
- Automatic PDF audit report generation
- Sophisticated audit analysis
- Finding management through to closeout
- Centralised repository of audit reports
- Automated email distribution

## Web Interface

- State of the art web-based HMI
- Intuitive navigation
- Multi-user access
- Multi-language support
- Browser access using Internet Explorer® 7 or greater
- Secure access via private networks (Intranet)
- Secure access via World Wide Web (Internet)
- World-wide overview via Inventory™
- Low bandwidth communication

## Secure

- Integrated 256 bit SSL encryption
- Digest authentication for secure password control
- Individual user access privileges

## Integration

- Link to Calibrate™, Record™ and Profile™

## Metrology™

Inspect™ is one of the components in a suite of web enabled metrology asset management applications:

### Inventory™

Equipment and location database

### Profile™

Data collection and reporting

### Calibrate™

Calibration management

### Approve™

Meter performance management

### Record™

Inventory and event logbook

Further information on Inspect™ is available from Ambrit's website:

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