

# E&E / Patrol Inspection



## Features

- Inspection user group management
- Hierarchical inspection site setup and survey configuration
- Dynamic patrol route scheduling
- Supports video, voice record, images event feedback
- Inspection result analysis and reports
- Available on iOS and Android mobile devices
- Offline patrol and inspection

## Introduction

Advantech E&E Patrol Inspection system is a true plug and play standalone application suite including an Advantech industrial PC and patrol inspection software system. The Patrol Inspection administration portal is a user friendly configuration backend web service that can be accessed by web browser. The user or inspector uses the mobile device app that supports both iOS and Android systems by which the tasks and routes are assigned to individuals clearly and precisely for each patrol inspection tasks. Even if the target site to patrol is out of Internet access, the patrol inspection app can record and keep the results until all tasks are done and then upload the results when there is connection. All the results are stored and sorted instantly to provide latest analysis and reports that can be viewed from the administration portal.

## Feature Details

### Inspection user group management

Users can be grouped or categorized so that assignments can be sent or passed to person in charge of a specified unit, targeting the right owner for further assistance.

### Hierarchical inspection site setup and survey configuration

The campus or site can be configured in a hierarchical way that best fits its geological layout. Each station or substation can have multiple equipment and surveys such as generators or pumps. Questionnaires to each site, station, or equipment can be designed in forms of multiple choices, yes or no questions, or text fields including a file attachment feature that supports images, voice recordings, and videos.

### Dynamic patrol route scheduling

Since the layout of the site is fixed, the route and directions of each patrol inspection may vary depending on the period or function of various patrol teams. The patrol route can be designed and adjusted to the teams in respect of their roles and responsibilities without redesigning questionnaires.

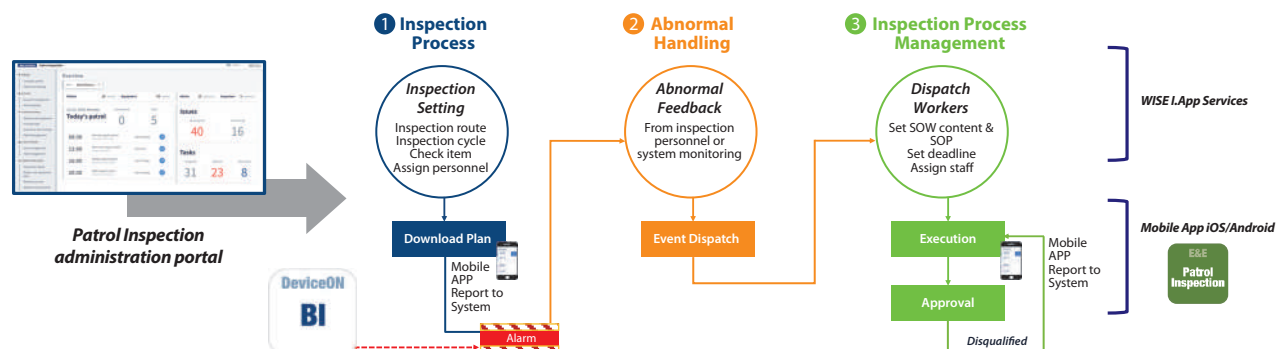
### Inspection result analysis and reports

All the statistics and timed patrol inspection details are logged into the system as soon as results are uploaded from mobile devices. Branched single tasks can be assigned instantly to another owner if an abnormal result of an inspection is found. Monthly patrol and statistical reports can help the manager to review equipment status as well as the inspection quality.

### Offline patrol and inspection

If the target site to patrol is out of Internet access, the patrol inspection app can record and keep the results until all tasks are done and then upload the results when there is connection.

## Workflow



## Software Specifications

|                                |                                      |  |
|--------------------------------|--------------------------------------|--|
| Operating System               | Microsoft Windows                    | Windows 10 Professional 64 bit                     |
|                                | Licensing                            | Bundle with dedicated HW                           |
| Administration                 | Roles                                | Super Administrator / Administrator / User         |
|                                | Account Management                   | Manual / e-mail                                    |
|                                | User Account Groups                  | Yes  |
|                                | Languages                            | English / Traditional Chinese / Simplified Chinese |
| Patrol Site Configuration      | Number of Hierarchies                | 3  |
|                                | Number of Grouped Areas              | Not Limited  |
|                                | Number of Equipment / Facilities     | Not Limited  |
|                                | Documentation Upload                 | Yes  |
|                                | Floor Map Upload                     | Yes  |
|                                | Site / Facility / Equipment Identity | QR-Code (Auto generate)                            |
| Patrol Management              | Questionnaire Setup                  | Single choice / multiple choices / Text field      |
|                                | Route Setup                          | Custom dynamic                                     |
|                                | Route Scheduling                     | Once / scheduled                                   |
|                                | Single Event Assignment              | Yes  |
| Reports                        | Patrol Summary                       | Yes  |
|                                | Inspection History                   | Yes  |
|                                | Statistics by Station & Equipment    | Yes  |
|                                | Statistics by Area                   | Yes  |
|                                | Statistics by Personnel              | Yes  |
| Integration with Other Systems | WISE-DeviceOn                        | DeviceOn/BI  |
|                                | WebAccess                            | WebAccess/SCADA (2021 Q2)                          |

## Mobile App

|                     |                         |  |
|---------------------|-------------------------|--|
| Generic Features    | Automated Patrol Timer  | Yes  |
|                     | Multi-site Login        | Yes  |
|                     | Site History            | Yes  |
|                     | GPS Location            | No   |
|                     | Platforms Supported     | iOS 12 and above; Android 10 and above             |
|                     | Languages               | English / Traditional Chinese / Simplified Chinese |
| Tasks               | Tasks Overview          | Yes  |
|                     | Route Overview          | Yes  |
|                     | Auto Task Receive       | Yes  |
|                     | Offline Patrol          | Yes  |
|                     | Result Upload           | One-click  |
|                     | Pause Timing            | Yes (Reasons required)                             |
| Inspection Feedback | Abnormal Event Feedback | Scan QR-code for instant feedback                  |
|                     | Feedback Content        | Text / pictures / audio / video                    |
|                     | Attachment Limit        | 10MB / file  |

## Security

- All software bundled within has been scanned without issue by Nessus, a product of Tenable.

## Hardware Specifications

- Platform** MIC-770Q
- CPU** i7-8700 6 Core
- Memory** DDR4 32GB
- Storage** 2TB x 2 (RAID1)
- System Fan** Yes
- Dimensions** 167 x 192 x 230 (mm)

## Ordering Information

- ENV-49A-AP01** E&E/Patrol Inspection with Windows 10 Professional

## Version Upgrade

- 1st Year Free. For maintenance packages after one year, please contact with account representatives.

## Prerequisites & Remarks

- For public Internet access, customers have to apply IP (Internet protocol) and company domain. Mobile apps should use VPN services if connecting to a private network.