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.

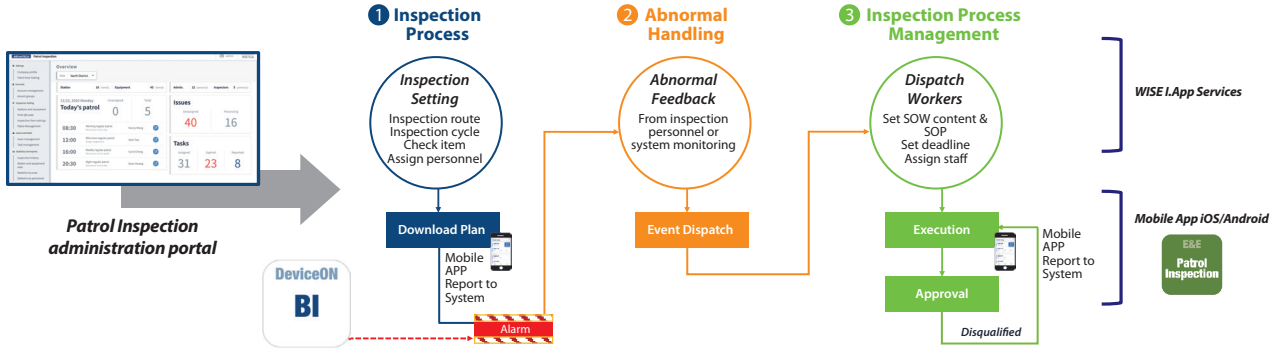
Inspection result analysis and reports

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)
	Questionnaire Setup	Single choice / multiple choices / Text field
Patrol Management	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)

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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.