



Digital Work Manual I.App Solution Introduction

Advantech Industrial IoT / AII/
iFactory Smart Manufacturing Solution





Outline

1. Product Introduction

Overview

Challenges & Solutions

2. Product Key Features

User Scenario

Features & Functions Introduction

3. Architecture

Services

Software



Overview

In the factory, to ensure the quality of mass production, instructions have their own standard operating procedures (SOPs). SOPs are applied to production operations to improve quality inspections and maintenance. Traditional SOPs are printed on paper, however, traditional paper is wasteful and increases operating costs.

Advantech iFactory eManual I.App, provides a digital SOP which provides accurate product information and fast updates which shortens the learning curve for operators.











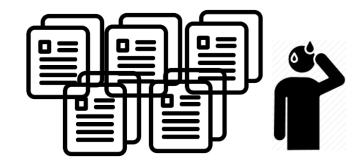
Challenges & Solutions

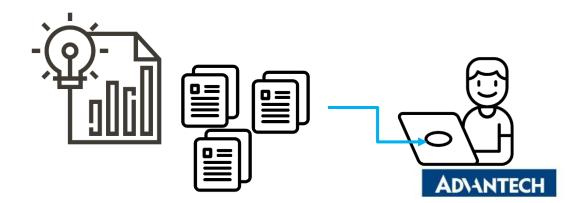
Challenges

- 1. Paper SOPs instruction are harder to update
- 2. Paper SOPs are easy to create and share
- 3. Risk of losing paper SOPs when changing shifts.
- 4. Paper SOPs less convenient and accurate to use.

Solutions

- eManual provides a digital SOP, which is easy to find and trace
- 2. eManual effectively controls SOP usage rights to avoid outflows.
- 3. When shift lines end, eManual can quickly switch the SOPs on the production line, reducing the cost and time.
- 4. eManual allows operators to easily search for the correct SOP, increasing productivity.







User Scenario

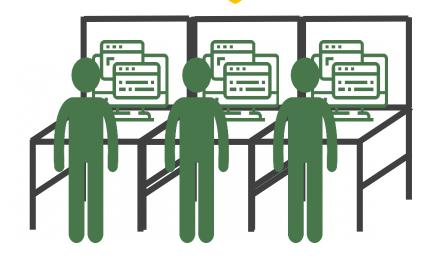
IT can easily maintain work instructions through the eManual editor.



IT can update the latest information to the user side.

iFactory/eManual provide users (operators) with digital work instructions on a simple UI.

)3 (v s















Key Features of eManual

01

Easy Set-Up

Simple set-up task steps and categories with built-in work instruction editor and drag-and-drop functionality - no programming needed.

03

Collect Cycle Times to Make Data-Driven Decisions

Capture meta data for every step such as speed and process cycle times for continuous improvement.

05

Web-Based Application

No additional software to install. Works on any device such as tablets, mobiles, laptops etc.



Bar-Code & QR-Code Entry

Users can scan bar-codes or QR-codes for rapid entry to any procedure or instruction.

02

Integrated Interface

Provides APIs for other I.Apps or upper lever systems such as MES, ERP, and Shop Floor

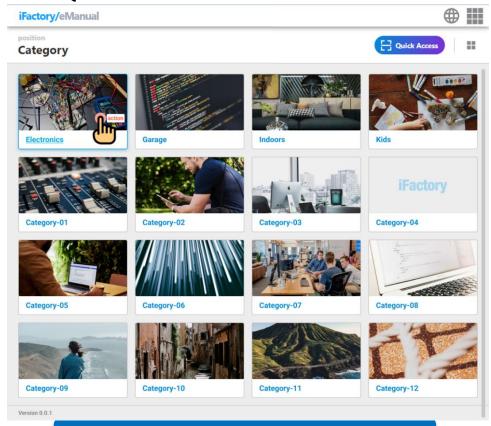
04

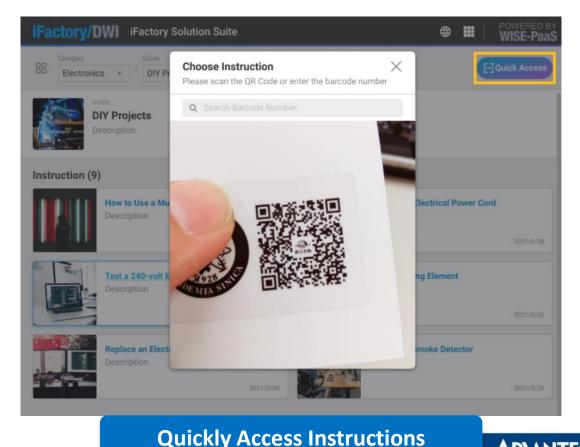




Accessing and Using eManual

- A web-based software application. Users can create work instructions or view reports anywhere, anytime via browser on any web-capable device, tablet, laptop, iPad etc.
- Quickly access information across all instructions using built-in search functionality or Bar-Code and QR-Code Scan.





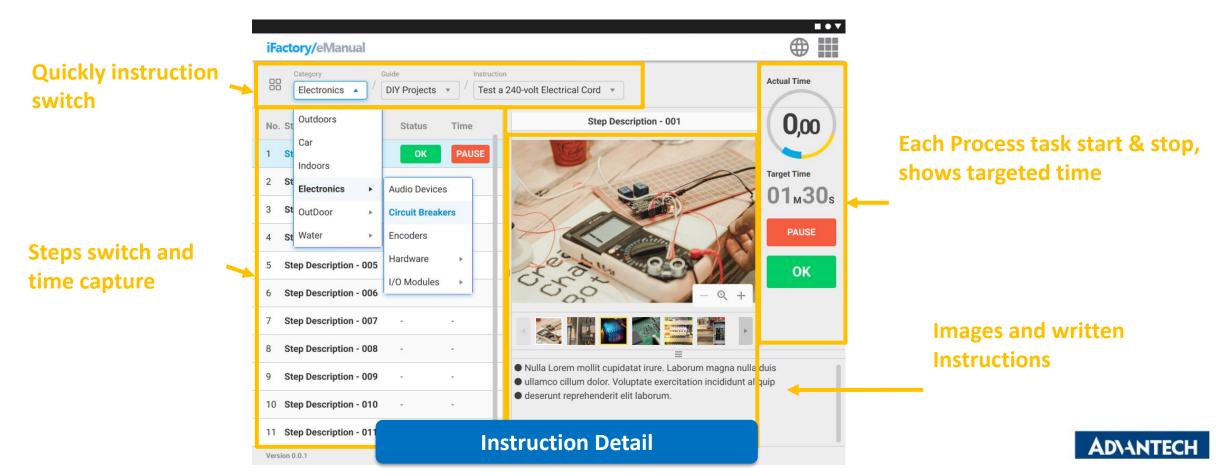
Instruction Category

ADVANTECH



Digital SOPs by Step

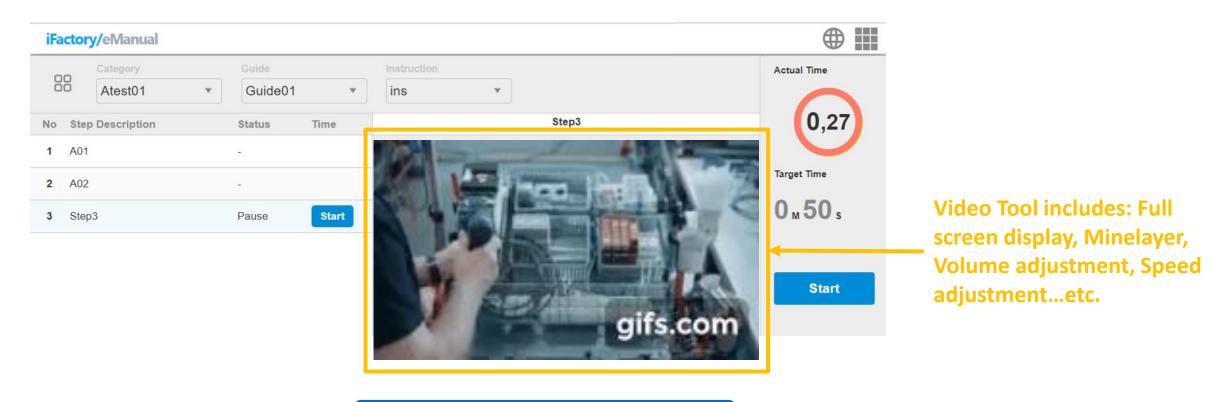
- Work instructions and steps are displayed in real-time.
- Capture times for each process task start / stop.
- Cycle time indicator shows targeted time for each station as well as actual time per station. Through eManual,
 Station data can be connected with iFactory/MOM and iFactory/KPI to give management the tools they need
 to make data-driven operational decisions.





eManual Video Work Instruction

- Include videos of how-to complete any procedure to turn complex concepts into simple visual instructions.
- Capture video on the floor or in the field and include it in your work instruction service. Remove the potential for confusion or misinterpretation.

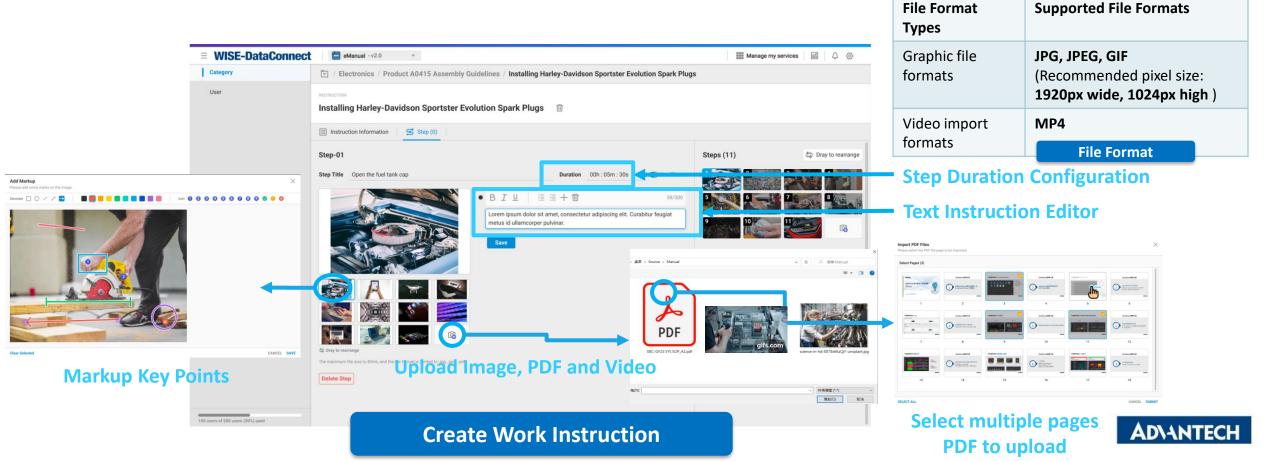


Video Instruction AD\ANTECH



Digital Instruction Editor Tool

- Easily create work instructions in a simple, easy-to-use system with eManual built-in work instruction editor tool. Use images, written instructions, video or connect to current PDF files, supports files up to 5 GB in size.
- Quickly set-up task sequences by setting instruction management categories, uploading photos and videos, adding markups, and writing instructions with no programming needed.

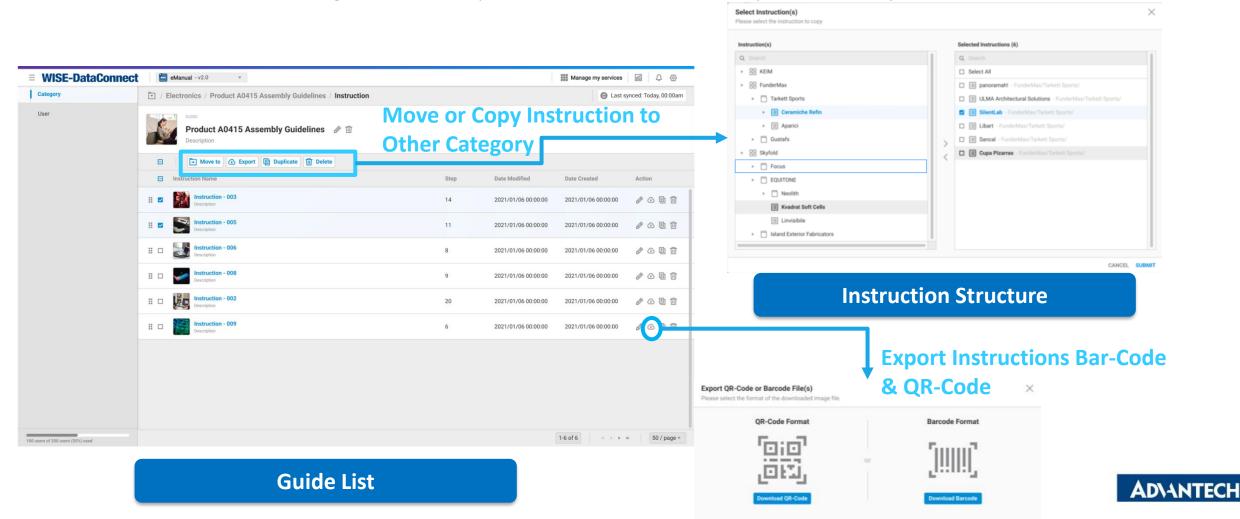




Structured Instruction Management - Back Stage

Build a centralized library of standard work procedures. Consolidate Instructions with guide and arrange categories to fulfill various user demands for knowledge management.

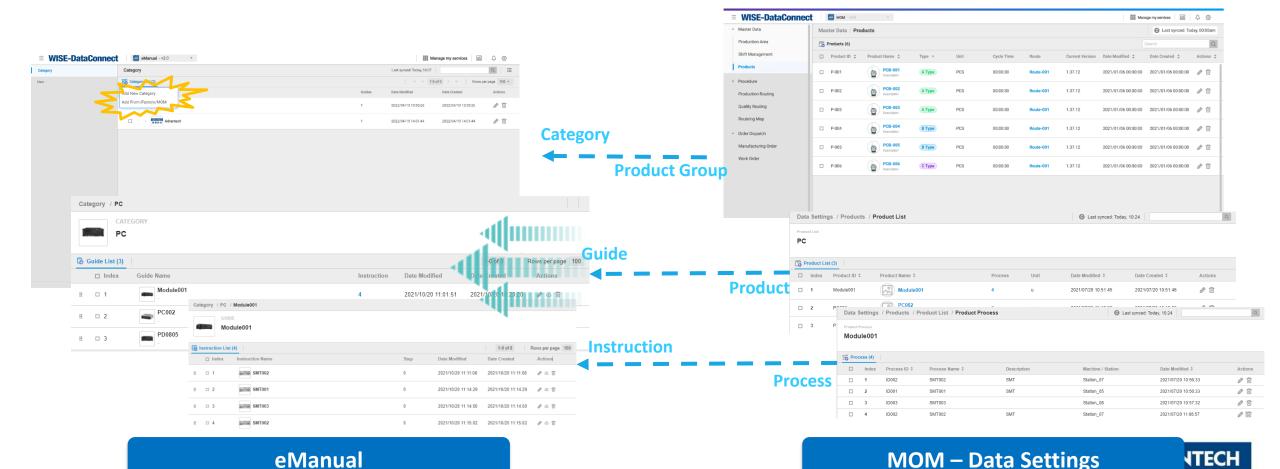
Bar-Code & QR-Code generator helps the user to scan and rapid enter any instruction.





Clone MOM Product Settings by "ONE-CLICK" - Back Stage

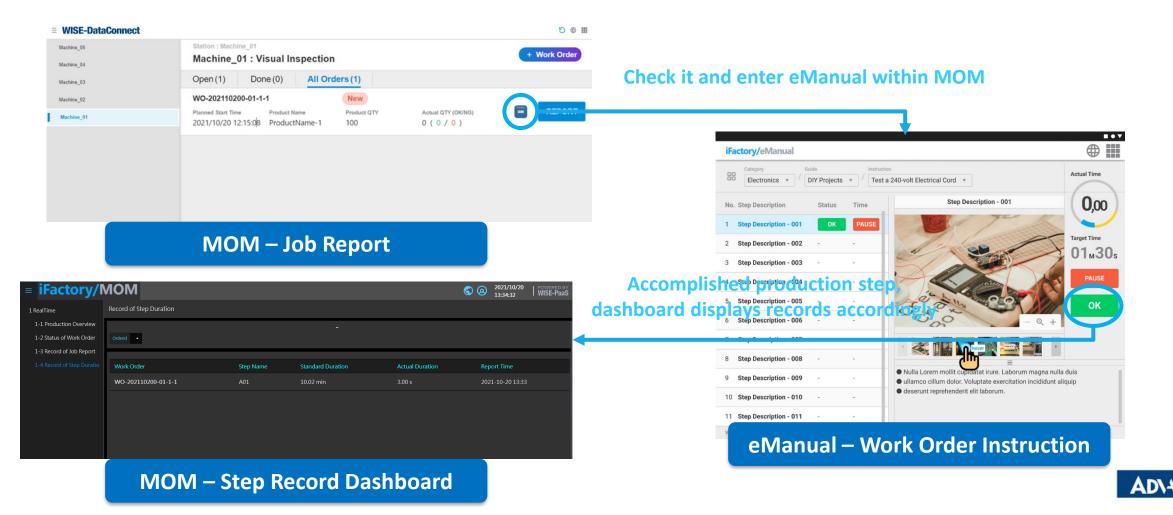
Build-in MOM Data Import feature, saves time by re-establishing all product information data in eManual, with no programming required by one click.





Integrated Data & Process Traceability Interface

Gathers essential information from process operators directly within your work instruction. Easily export collected data via API to other I.Apps or your external systems.





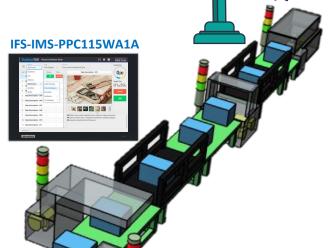
eManual Services Architecture



















iFactory Desk-Instruction editor

Simple instruction creation and timely updates so operators will always have the most up-to-date instruction.

On-Site Device Work Instruction

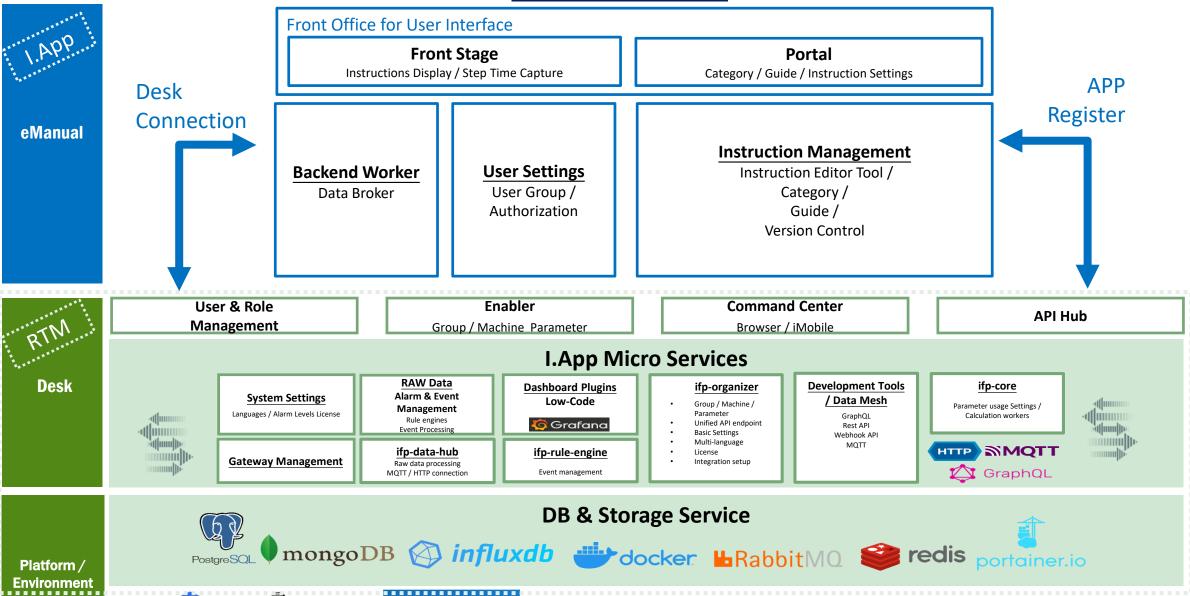
Clear and concise procedures for on-site operators of any skill level can follow.

Handheld Tablet Work Instruction

Handheld device instruction for repair and maintenance to enforce standard procedures everywhere.



iFactory eManual Architecture















Co-Creating the Future of the IoT World

