EcoStruxure™
Augmented Operator Advisor

Catalog
June 2019
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EcoStruxure™ Augmented Operator Advisor

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EcoStruxure Augmented Operator Advisor puts real-time information at your fingertips, whenever and wherever it is needed. The custom application improves operational efficiency with augmented reality, enabling operators to superimpose current data and virtual objects onto a cabinet, machine, or plant. This software combines contextual and local dynamic information for mobile users, enabling them to experience a fusion of the physical, real-life environment with virtual objects.

Reduce downtime
EcoStruxure Augmented Operator Advisor reduces downtime by opening electrical cabinet doors virtually and diagnosing the device status instantly in real-time without the need for lockout or electrical qualifications.

Real-time data through augmented reality
**EcoStruxure Augmented Operator Advisor**

Solution for industrial augmented reality applications

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### Speed-up operation and maintenance

EcoStruxure Augmented Operator Advisor speeds up the efficiency of operations and maintenance by offering immediate access to relevant information in the field like real-time data, machine history, user manuals, instructions, diagrams, etc.

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### Fewer human errors

EcoStruxure Augmented Operator Advisor enables technicians to locate the right equipment and guides them step-by-step to complete the procedures.

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### Instant diagnosis and contactless maintenance

Click to view video (1 min 10 sec)

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EcoStruxure Augmented Operator Advisor

Guided and facilitated interventions
EcoStruxure Augmented Operator Advisor
Solution for industrial augmented reality applications

Presentation

EcoStruxure Augmented Operator Advisor uses augmented reality technology to optimize the operation and maintenance of industrial sites and equipment. It works as follows:

1. The operator points a tablet camera at the site or the monitored equipment.
2. The Advisor uses special image comparison techniques to match the scene visible in the field of view of the tablet camera with previously stored photographs of the same scene.
3. The Advisor then overlays markers called points of interest on the live scene visible on the tablet.
4. The operator taps the point of interest markers to display a wide variety of information like process variables, documents, Web pages, videos, etc.

EcoStruxure Augmented Operator Advisor is delivered in two business models:

- Project mode where customized projects are developed in-house and delivered to the customers end users.
- Do-it-yourself mode where projects are developed by the customers (Machine builders) themselves.
EcoStruxure Augmented Operator Advisor
Solution for industrial augmented reality applications

Architecture
EcoStruxure Augmented Operator Advisor is made up of the following components:

- EcoStruxure Augmented Operator Advisor Builder:
  This is a Web-based application where the user creates projects. It is used to:
  - Organize and structure the areas, scenes, subscenes, and points of interest in a project
  - Create and position the points of interest on photographs
  - Define what happens when the operator taps the point of interest
  - Build procedures (1) to explain a set of tasks the operator must carry out

  The built project must be uploaded to the device where the EcoStruxure Augmented Operator Advisor Runtime software is installed.

(1) Procedures are only available with particular license types.

Note: To view real-time values of process variables produced by the equipment being monitored, Node-RED or EcoStruxure Operator Terminal Expert applications should be installed.
EcoStruxure Augmented Operator Advisor
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Architecture (continued)

- EcoStruxure Augmented Operator Advisor Runtime software (1):
  This is a server-based Windows software installed on a Magelis (2) or a standard Windows PC to execute the projects. It gathers together all the required information and sends it to the tablet to be displayed in the points of interest by the EcoStruxure Augmented Operator Advisor App. It also manages the database containing the photographs of scenes and equipment of the uploaded project.

- EcoStruxure Augmented Operator Advisor App (3):
  This is an application running on a tablet computer that views reality and compares it to photographs of scenes stored in the EcoStruxure Augmented Operator Advisor project. When the scene being viewed by the camera and the stored image match, the user interface controls and points of interest associated with the scene are displayed. The App is available in English, French, German, Italian, Spanish, Simplified Chinese, Japanese, and South Korean languages.

(1) Both EcoStruxure Augmented Operator Advisor App and EcoStruxure Augmented Operator Advisor Runtime should be connected to the same WiFi network or 3G/4G mobile network to be able to communicate with each other.
(2) Magelis HMIG5U2 Open Box PC or Magelis iPC.
(3) Both EcoStruxure Augmented Operator Advisor App and EcoStruxure Augmented Operator Advisor Runtime should be connected to the same WiFi network or 3G/4G mobile network to be able to communicate with each other.

Note: To view real-time values of process variables produced by the equipment being monitored, Node-RED or EcoStruxure Operator Terminal Expert applications should be installed.
EcoStruxure Augmented Operator Advisor
Solution for industrial augmented reality applications

References

The EcoStruxure Augmented Operator Advisor App can be freely downloaded from the App store. The Builder and Runtime software can be downloaded from the link EcoStruxure augmented operator advisor.

Also, both Builder and Runtime software are free to download and can be used for up to 42 days with no limitation on the number of areas, points of interest, and procedures. You can purchase licenses and activate the software at any time during the trial period.

**EcoStruxure Augmented Operator Advisor Builder software**

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<td>Single 1 year license</td>
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**EcoStruxure Augmented Operator Advisor Runtime software**

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<td>Augmented Operator RT Essential Level 1, Single-area projects and up to 20 points of interest by project</td>
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www.schneider-electric.com/ecostruxure-augmented-operator-advisor

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