HMINavi

Human Machine Interface Software



Features

- Allows users to manage multiple HMI applications in one project
- Dynamically language switch with Unicode and multilingual text supported
- Password protection for designs, macros, and upload/download operations
- Supports the running of open platform applications with Windows
- Automation controller can be linked and controlled from the platform directly
- Provides index registers for modifying device addresses at runtime
- Collects data from multiple devices using various methods
- Supports diverse data acquisition and trend presentation techniques
- Operation log facilitates event review and investigation
- Supports over 500+ PLC controller drivers
- Compliant Food & Drug Administration Title 21 CFR Part 11

Introduction

HMINavi Designer is a powerful and intuitive software program for creating comprehensive human machine interface solutions. HMINavi Designer is an easily integrated development tool with proven value in many application fields. The features include solution-oriented screen objects, high-end vector graphics, Windows fonts for multi-language applications, receipts, alarm functions, as well as data and operation logging capabilities. HMINavi Designer also supports utility programs such as Data Transfer Helper (DTH), recipe editor, and text editor. The HMINavi Designer software is free download for usage, user can directly download before purchase. With online/offline simulation user can directly connect to PLC controller to ensure solid connection and screen design without any issue.

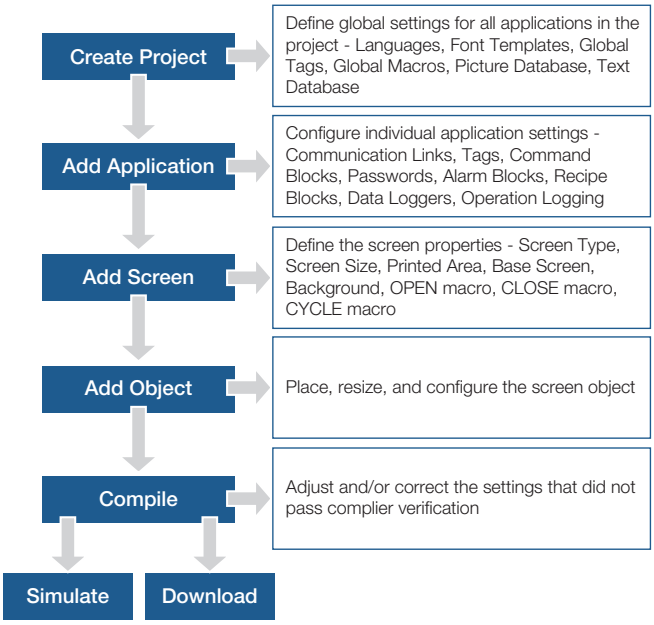
HMINavi Runtime, a component of HMINavi, guarantees the reliability and performance of Open Platform because of the minimum system overhead, high data communication rates, sub-second screen switching, and 24/7 operation. Additionally, Advantech's fast response software team is continually adding new functions, communication drivers, and solutions to the software to meet dynamic needs.

System Requirements

Minimum OS Requirements

- Windows 7
- Windows 10

Project Development Steps



Feature Details

Global Settings and Resources Sharable to All Project Applications

- Multiple languages (up to 30 languages for project application)
- Font templates (up to 20 fonts for each language, TrueType fonts supported)
- Picture database (+PNG and SVG), sound database (WAV), and text database
- Global tags
- Global macros

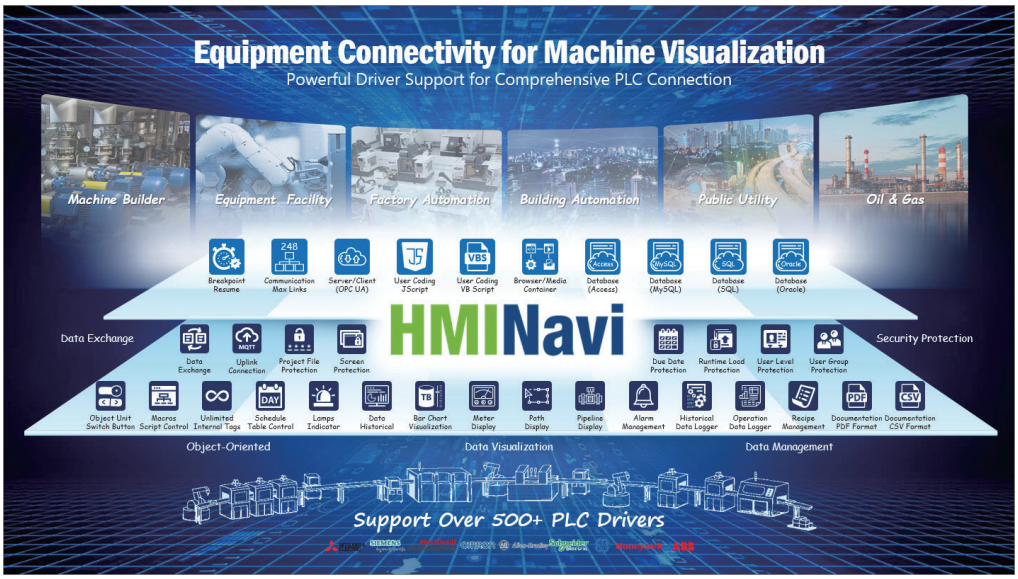
Numerous Solution-Oriented Screen Objects

- For common HMI needs
  Buttons, lamps, message displays, numeric displays, numeric entries, character displays, character entries, time displays, date displays, bar graphs, meters, etc.
- For animations
  Picture displays, GIF displays, animated graphics, dynamic rectangles, dynamic circles, pipelines, circular bar graphs, etc. Customizable basic graphic object colors (text, lines, rectangles, circles, etc.), as well as button and lamp shapes.
- For advanced functions
  Line charts, scatter charts, recipe selector, recipe table, alarm history display, active alarm display, alarm count display, historic trend graphs, historic data table, historic event table, historic line charts, operation log display, sub-link table, etc.

Communication Links

HMI products can have up to four built-in communication ports. HMINavi Designer software allows users to create up to four links and 255 sub-links for a single application. The inclusion of more than 500 communication drivers enables 1-to-N (one panel to a wide variety of industrial devices) or N-to-1(multiple panels to one device) connections. WebAccess/HMI Runtime supports up to 16 built-in communication ports and allows users to create up to 16 links for 255 sub-links with serial ports, as well as 128 sub-links with Ethernet ports for a single application.

All product specifications are subject to change without notice.
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One Design for All Models

HMINavi Designer software features an automatic resizing function for resizing all objects to fit the screen size if the HMI model is changed. Thus, HMI model changes can be rapidly implemented.

Easy to Accumulate/Reuse Design Achievements

- Import/Export Function
  HMINavi Designer provides a simple method for importing and exporting data between applications and projects. This data can include language settings, font templates, pictures, sounds, text, tags, macros, applications, screens, alarm messages, control blocks, and status word settings.
- Object Library
  The object library enables convenient configuring, managing, and sharing of user-defined objects. The object library contains default objects, common objects, object groups, and global objects.

Enhanced Intellectual Property Protection

HMINavi Designer offers enhanced IP protection with up to 9 password levels for securing operations and restricting object access. Users can set passwords to protect projects, tables, and global macros, and also prohibit the uploading and copying of panel applications stored in the HMI unit.

Recipes

HMINavi Designer provides comprehensive solutions for recipes.

- Supports up to 16 recipe blocks
- Provides a recipe selector for selecting recipes and a recipe table for displaying and modifying recipe data at runtime
- Provides Recipe Editor, an independent executable program, for viewing and editing recipe data saved in binary files
- Supports bit notification when recipe operations are performed successfully to prevent data loss

Supports Data Saving to CSV/TXT Files

Supports the saving and loading of collected data to/from CSV or TXT files. These two standard file formats ensure easy manipulation of data on a PC.

Alarms

HMINavi Designer supports up to 16 discrete alarm blocks and up to 16 analog alarm blocks. The software also offers alarm history display, active alarm display, alarm count display, and alarm marquee for displaying the application alarms.

Macros Offer an Easy-to-Learn Language with Simple Syntax

Application developers can program their own solutions using macro commands for the following:

- Operations not supported by a standard object or feature of HMINavi Designer sequential, interactive, conditional and file operations
- Non-linear data conversions
- Data exchanges between two controllers
- Simple communication drivers
- Difficult-to-implement tasks in controllers
- Reducing controller load to boost performance

Simplified Architecture

- Real-time WYSIWYG screen editor, eight toolbars, and a screen manager
- Screen overview showing the relationship between the application screens
- Link overview showing the relationship between application links of the current application
- Object list showing the screen objects and associated I/O address of the current screen
- I/O list showing all I/O addresses of the project and their owners
- Compiler for building, verifying, and optimizing designs
- Online/offline simulation for design verification
- Data Transfer Helper (DTH), an independent executable program, for obtaining and updating application data via a serial or Ethernet port
- Text Editor for editing all screen texts in multiple languages

Ordering Information

Rebindable S/W Key License

- **36OTAHMI0600A1** HMINavi Runtime V4.0 600 tags S/W (Extension Only)
- **36OTAHMI0100A1** HMINavi Runtime V4.0 100 tags S/W license
- **36OTAHMI1200A1** HMINavi Runtime V4.0 1200 tags S/W license
- **36OTAHMI2400A1** HMINavi Runtime V4.0 2400 tags S/W license
- **36OTAHMI6000A1** HMINavi Runtime V4.0 6000 tags S/W license
- **36OTAHMI9900A1** HMINavi Runtime V4.0 9900 tags S/W license
- **36OTAHMI030KA1** HMINavi Runtime V4.0 30000 tags S/W license

USB Dongle License

- **36OTAHMI002UA1** HMINavi Runtime V4.0 2400 tags S/W USB dongle
- **36OTAHMI009UA1** HMINavi Runtime V4.0 9900 tags S/W USB dongle
- **36OTAHMI030UA1** HMINavi Runtime V4.0 30000 tags S/W USB dongle