iX HMI software

Brings the wow factor to the factory floor

BeiJer
ELECTRONICS

Looks good, works great
The combination that adds wow to work

iX HMI software makes your projects as easy to complete as they were to imagine

The iX HMI software empowers you with unique tools to communicate. It combines top-class vector graphics and smarter functions that provide intuitive operation on the spot, adding wow to any project. Not to mention the almost limitless connectivity to your other equipment through the extensive list of drivers.

Complete HMI functionality

You'll find all essential functionality you need included in the software, such as data logging, recipes, alarms, trends and audit trail. Take advantage of ready-made objects with built-in functionality, vector-based symbols and graphics that can be easily inserted into the screen. A low entry level makes it easy for new users to get an application up and running.

Efficient workflow

The intuitive development environment filled with brilliant shortcuts speeds up engineering. Pre-styled objects, a customizable workspace, a component library with vector graphics, and a smart property grid are features that'll boost your efficiency and workflow. Share your customized objects and advanced script modules with colleagues. They don't have to be advanced users to import and use them.

Functionality for advanced users

iX has support for .NET technology, providing options for advanced developers to design specialized functionality. Use C# scripting or .NET components. Take advantage of third party objects and import .NET assemblies to extend the functionality further. Control and exchange data with multiple controllers and enjoy connectivity via SQL, FTP, OPC and web.

Complete HMI functionality

Find all essential functionality you need included in the iX HMI software.
A low entry level will make it easy to get applications up and running.

Touch-friendly objects
Save screen space and make your application more efficient to navigate by using objects controlled via scroll and swipe gestures.

Alarms
Manage alarms and notify operators with your selection of colors. Touch scroll function and grid view ensure safe navigation.

Trends
Provide visual representation of historical or real time events, analog or digital, to enhance the understanding of the process and performance.

Web browser
Let the operator get instant information from Internet or Intranet. The web browser allows your HMI application to access via Internet.

Media player
Ease operator decisions by showing videos how to perform complex tasks such as maintenance.

PDF
Use the PDF viewer available in iX to display PDF files such as manuals or instructions.

Multiple language
Translate texts directly in iX, and choose from different keyboard layouts (e.g Cyrillic, Chinese). Language can be changed during runtime.

Scheduler
Control tags in relation to the real-time clock, and events in the process at specific predefined calendar times.

Security
Define authorized users or restrict access to specified groups. Change security users in runtime, and get password-protected runtime applications.

Text library/Text ID
Link texts to tag values and save in a database. Update/translate in one place. Use one common translation database for all your applications.

Recipes
iX recipe management with online editing enables operators to create and manage recipe libraries containing different sets of parameters, improving runtime efficiency.

Data logging
Log data based on time intervals or changed tag values. Collect all samples, or collect only changed values.

Drag and drop
Drag ready-made objects you need from the component library or ribbon menu and just easily drop them to your workspace.

Vector based graphics
Scale objects and still maintain crystal clear graphics without jagged edges or inconsistent color transitions of bitmap images.

Dynamics
Apply dynamics like visibility, position, appearance or fill colors to objects, e.g. buttons.

Component library
Fast access to more than 400 vector based symbols ready to use. Or create your own in third party tools and share them with colleagues.

VNC
Access and control panels remotely by using the VNC client program together with the built-in VNC server.

Drivers and OPC
An extensive driver list enables communication with your PLC and other automation equipment from all major automation manufacturers.

Stay updated with the iX update notification. Use the built-in on-line function to update software and drivers to the latest version.

Functionality for advanced users

iX provides options to design specialized HMI functionality using C# scripting or
.NET components. Third party objects and .NET assemblies can be imported to
extend functionality further. Not to mention the almost limitless connectivity.

Alarm distributor
The alarm distributor makes it possible to send alarm notifications via printer, SMS or e-mail.

Alarm client
With the alarm client, it's possible to display and acknowledge alarms on other iX panels in a panel network.

Background screens
Any screen can be used as a background screen by other screens in a project.

Controller data exchange
iX enables controller data exchange with real-time exchange of data between controllers of major brands. Let the panel act as gateway.

Multi-controller
One tag can be connected to several controllers, which allows the same HMI application to run against different PLC's.

Import/export component library
Secure a consistent design by sharing your component library, or parts of it, with colleagues or sub suppliers.

SD card backup
Reduce down-time with complete project and data backup on the panel's built-in SD card. Transfer data from one panel to another.

Charts
Choose between 14 different trend charts to show statistics and reports in a clear and structured way in 2D and 3D.

Audit trail
Advanced process tracking, user identification linked to time and place of process events, enabling recalls and rationalizing of production processes.
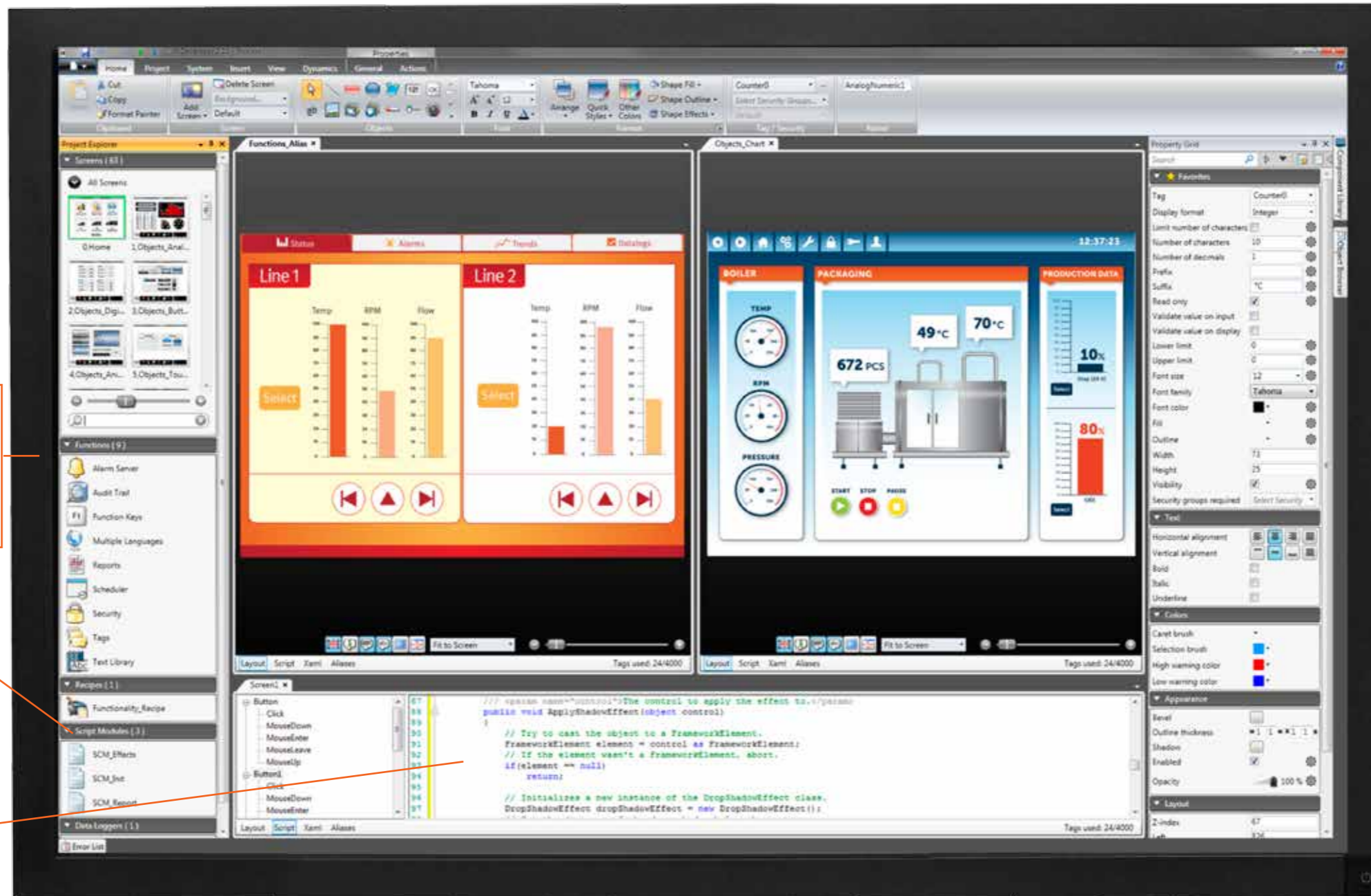
Report generator
Generate reports based on Microsoft Excel-made report templates. Print or save as an Excel file.

Import of script module
Extend the functionality of your iX application by importing script modules with customized functions made by third party developers.

C# script
Customize the functionality of a single action or your whole application using your own scripting in the C# script editor.

Import third party components
Benefit from customized predefined components, or order ready-made components from a third party supplier.

Import assemblies
iX allows you to import .NET assemblies, or function blocks, and extend the scope of functionality further.

Web server
Using the panel web server you can design a web page and access the panel information from a remote location.

OPC UA server
Panels can be server or clients, therefore they can communicate via panel networks or between factory floor and business system.

FTP server
It is possible to up and download files to the operator panel from a remote PC.

SQL connectivity
iX supports the SQL standard providing communication, retrieval and management of data in relational database management systems.

Efficient workflow

The intuitive development environment in iX HMI software speeds up engineering significantly. Many clever features combine to give you brilliant shortcuts and efficient workflow.

» Customizable workspace
Arrange your tool windows. Pin or dock them, or float them over and outside your editing space.

» Cross reference
Edit tag names at one place and it will reflect through the whole project. Get an overview, or trace specific tags.

» Panel wizard
Get a head start. Just select target panel and driver in the panel wizard, and you are ready to start a new project.

» Tag browser
Use the tag browser to connect tags to objects in a screen and to search for specific tags. Or create directly when connecting.

» Context-sensitive help
Simply press "F1" wherever you are in the developer environment and the manual opens with relevant information of the feature.

» Alias
Reuse screens without having to create a new duplicated screen. Tags are connected at one place only, and one screen can be reused for several machines, faceplates etc.

» Project backup
Backup your project and export to USB at any time. Use the Ethernet connection or USB to update your panel on site.

» Import/export
iX supports import/export of e.g. tags, alarms, texts, translations, symbols, etc.

» Reusables
Use clever features like quick styles, object variations and template screens to reuse work already done and speed up your design.

» Delete unused tags
Clean up your project and improve performance with the unused tag detection function, manually or automatically.

» Multiple objects editing
Make multiple changes by selecting several objects and configuring them simultaneously with just one mouse click. This allows fast and efficient editing.

» Upload project
Projects can be down- and uploaded from the panel including password protected source code. Verify the application on the panel with your version in iX Developer.

» Template screens
Increase brand consistency with uniform corporate screens and objects. Reuse your templates instead of maintaining individual background screens.

» Smart property grid
View all properties, only changed or your personal favorites. Easily edit, copy or compare the properties or actions of any object.

» Simulation
Off- and online simulation with or without live data from controllers provides safe and reliable tests of HMI applications.

» Easy to arrange
Use auto alignment with guidelines to position objects on the screen. Arrange, group, resize, align and distribute screen objects with a right click.

A world of hardware choices
And all you need is one software

The iX HMI solution gives you all the hardware options you need. Choose from popular industrial panels or specialized panels designed for rugged and marine environments, which perform reliably where other HMIs won't. You can even choose integrated CODESYS soft control and soft motion functions.

iX HMI software in a PC

iX Runtime is an HMI software that runs equally well with a standard Windows PC as in an iX panel. You can use iX in a PC for control room applications, when you need large screens or expanded desktops, or when you want to run more software on the same platform.

The iX HMI software is optimal for simple monitoring applications with one or more controllers, as well as for advanced applications where controllers and iX panel data are monitored and controlled from a central PC.

Use iX in a PC when you need:
- Large data quantities in an application
- Remote configuration and maintenance
- Simpler reporting using Exel files

Industrial applications
iX HMI Industrial series, available in 4 to 21 inches.

HMI soft control and soft motion
iX HMI SoftControl and iX HMI SoftMotion series, available from 4 to 15 inches.

CODESYS

Connect to what you need

An extensive driver list in iX enables communication with your PLC and other automation equipment from all major automation manufacturers.

Marine applications
iX HMI Marine series, available in 7 and 15 inches.

Extreme environments
iX HMI Rugged series, available in 15 inches.

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Modbus · EtherNet/IP · EtherCAT · CAN

About Beijer Electronics

Beijer Electronics is a fast growing technology company with extensive experience of industrial automation and data communication. The company develops and markets competitive products and solutions that focus on the user. Since its start-up in 1981, Beijer Electronics has evolved into a multinational group present in 22 countries and sales of 1,376 MSEK 2013. The company is listed on the NASDAQ OMX Nordic Stockholm Small Cap list under the ticker BELE.

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