

optivis

HMI Solution - Your Process, Your View



Changing the way you develop human machine interfaces, feature by feature

Efficient development tools for the optivis™ HMI take you from idea to result faster.

The optivis HMI solution provides efficient design, advanced functionality and easy connectivity to significantly reduce engineering time and give a faster return on investment.

Create and configure your optivis HMI solution in a familiar Windows environment – with ribbon menus, an intuitive workflow and context-sensitive help. Vector based scalable graphics and Windows media objects make sure your applications look professional and reflect your high standard.

The efficient development tools for the optivis HMI take you from idea to result faster. Take advantage of pre-defined styles to give your application a consistent look and feel. Make multiple changes by marking several objects and configuring them simultaneously with just one mouse click. Align objects automatically and use the screen explorer for more efficient handling of large projects.

Explore new possibilities with optivis HMI - feature by feature.



Reliable hardware - hardware and software made for each other



Whatever your application, we have the hardware to match it, from the efficient 7 inch operator panel to the high-performance 12 inch. All with the same look and feel. Your optivis application project can naturally be scaled to suit the display, ensuring a flexible and competitive solution.

The panels offer the latest technology with high-performance CPUs and LED backlight, resulting in an easy-to-read clear screen with wide viewing angles. Fast, easy mounting and a compact format makes it convenient to install in your panel and you can rest assured that you've picked a solution created for a long and reliable life in real-world applications.

High-performance reliable hardware:

- Modern look and feel with a consistent design through the entire panel line
- Dimmable high-resolution TFT display with fast touch response
- Higher user confidence with clear, easy-to-read display
- Flush surface that is easy to clean
- Reliable and robust aluminum housing
- Available in wide-screen with 30% larger viewing area
- Flexibility guaranteed with long list of drivers from all major automation vendors

Unique navigation - be more efficient in development and operation



Navigation tools inspired by modern mobile devices create new ways to interact with your application. Explore easy control using scroll and swipe gestures in optivis to make your application faster and more efficient to navigate.

Clear information based on high-quality graphics are key to responding to alarms quickly and preventing safety events and improving process efficiency. Advanced vector-based graphics and flexible objects in optivis provide safe and reliable operations, creating customer satisfaction and trust in the system. In a very short engineering time you can produce an interface that is so intuitive, users will probably never ask for the manual.

Unique and intelligent navigation tools:

- Easily handle large projects using screen explorer with built-in zoom
- Mark several objects and configure them all with one mouse click
- Create a complete screen structure faster, and keep a good overview
- Allow one screen to show multiple instances that can be changed during runtime
- Save screen space with new and smarter navigation tools controlled by gestures
- Show vast amounts of information in small areas using animated labels with variable speed and direction

Personal HMI - your HMI application never looked more personal



With the optivis HMI solution you can personalize your application in new ways to create a visual expression in line with the machine - and profile your application to harmonize with the company brand. Even system dialogs are customizable, and you have the option to choose the style you want to give your project that higher dimension.

The optivis panel offers comprehensive built-in HMI functionality such as recipes, trends, schedulers and audit trails, which enable you to create an efficient and safe operation of your application. Additionally, you can gain further competitive advantages by implementing .NET components and creating customized functionality through C# scripting. With optivis you can incorporate new functionality for higher production output and reduced maintenance costs.

Breakthrough ways to personalise:

- Add specialized functionality using C# scripting and .NET components
- Customize system dialogues in colors, fonts and touch area size
- Save your custom colors, build your own screens and re-use as a template
- Choose between fourteen different trend charts, also available in 3D style
- Change style on one or all of your objects to get a consistent look with just one click

Smart networking - get the right information at the right time in the right place



The operator panels can share information with each other via panel networks, regardless of size or performance. This means it's easy to share information between users and provides safer control of complex machines even over long distances.

Because the panels can act as OPC UA server or client, it is possible to distribute information between the factory floor and business or planning systems. If you want to turn facts and figures into Excel reports, just use the built-in report generator and print directly or save to file.

Need your HMI to go? Using the panel web server you can design your own web page by using the tag data API and just log-in. The information you see on the panel can be seen and used on a mobile device anywhere in the world.

Ultra-efficient networking features:

- Use the panel as a client or server (OPC UA) for efficient data exchange
- Connect to PLC or business/planning systems
- Communicate between panels with different screen sizes, 7 inch and 12 inch
- Create Excel-based reports including graphics, calculation and charts
- Distribute alarms to a printer, mobile phone, e-mail or other operator panel
- Easily import/export recipes by using FTP, USB or SD
- Access panel information remotely via web browser supporting JavaScript
- A multitude of connection options are at your disposal for local communication, expansion, remote access and more

Specification



Products	07B	12B
Display size	7"	12.1"
Display resolution, ratio	800 × 480 (16:9)	1280 × 800 (16:10)
Display colors	TFT-LCD 262k	
Active area of display, W×H (mm)	152.4 × 91.4	261.1 × 163.2
Brightness (cd/m2)	500	400
View angle (H/V)	140°/120°	176°/176°
Backlight life time	>50,000 hrs, LED backlight	
Touch screen operations	Resistive touch, 1 million finger touch operations	
Processor Intel®	Atom (1.1 GHz)	
Main memory	1GB DDR2	
Application memory	≥ 1.4GB	
External storage media	1 × SD card or USB Stick (not supplied)	
Realtime clock	yes	
Ethernet	1 × 10/100/1000 Mbit/s and 1 × 10/100 Mbit/s	
USB	3 × USB 2.0	
Serial port 1/2 2	combined ports: 2 × RS232, 2 × RS422/485	
Dimension W×H×D (mm)	204 × 143 × 51	340 × 242 × 79
Mounting	Panel mount and VESA 75 × 75	
Cut-out dimension W×H×D (mm)	189 × 128 × 43	324 × 226 × 72
Net weight (kg)	1.01	2.6
Frame material, front foil	Powder-coated aluminum, Polyester Autoflex EBA 180L	
Protection (front/rear)	IP65/IP20	
Power supply	+24V dc (18-32V dc)	
Power consumption	14W	22W
Operating temperature	-10 to + 50°C	
Storage temperature	-20 to + 70°C	
Certification	CE, UL 508	

Get everything you expect

The optivis HMI solution offers solid and comprehensive built-in HMI functionality such as recipes, trends, schedulers and audit trails, that enable you to create efficient and safe operation of your application.

... and so much more.

With the open architecture and the technologies that accompany .NET Framework, the optivis HMI solution is truly open and flexible. If you have specialised demands, you can use your own C# scripting and .NET components to further extend functionality. iX 2.0 fully supports your ideas without slowing you down.

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