

Silver Series

Low Cost Reliable
Graphic OITs

4.3", 5.6", 8.0" & 10.4"
Touchscreen Operator Interfaces

Beckhoff

Allen-Bradley

Danfoss

GE Fanuc

EMERSON
Control Techniques

idec

KEYENCE

Industrial
Control
Links

OMRON



CONTROL
MICROSYSTEMS

SIXNET

DELTA

Wago

MODBUS
MODICON

INDUSTRIAL
INDEXING
SYSTEMS

Bristol
Babcock

Siemens

GALIL

Telemecanique

Toshiba

TOL-O-MATIC

Koyo

YASKAWA

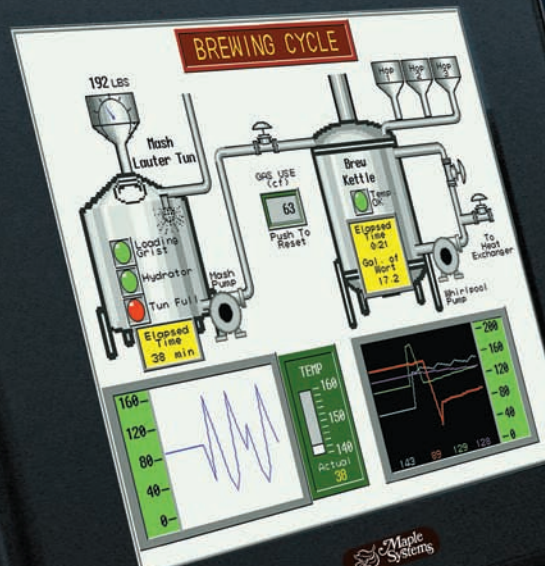
WATLOW

Panasonic
(Aromat)

Giddings
& Lewis

Trio Motion

MITSUBISHI



Every Machine
Needs the
Human Touch

Maple
Systems
INC.

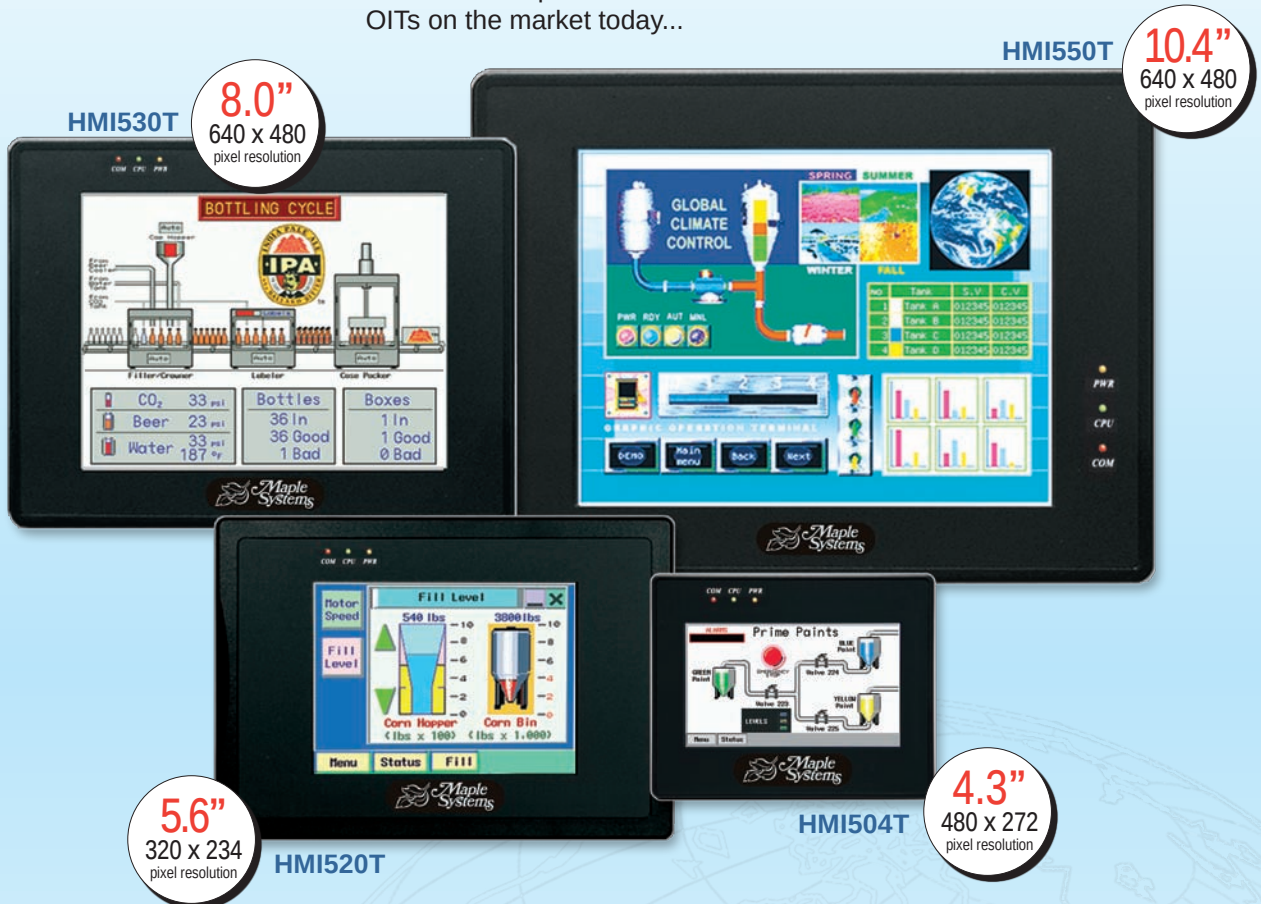
www.maplesystems.com

Silver Series

Maple Systems offers a lineup of Operator Interface Touchscreens (OITs) guaranteed to meet your needs and your budget. The Silver Series has advanced features, power, and versatility — all at low cost.

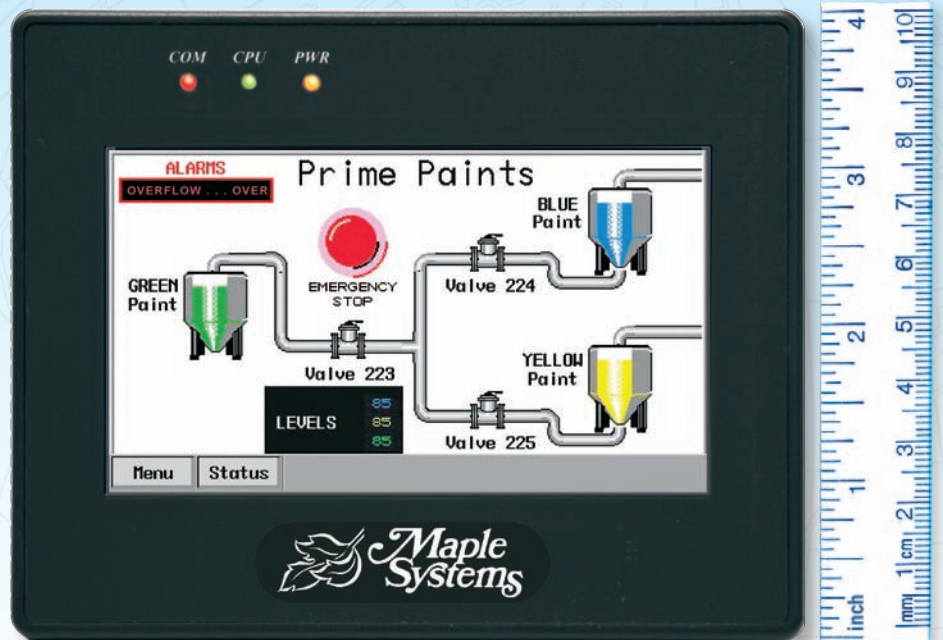
Select from our economical 4.3" 256-color touchscreen to the 10.4" 256 color TFT touchscreen with 4 MB of storage memory for graphics-intensive screens. With tens of thousands of units in the field, the Silver Series has proven to be reliable OITs for harsh industrial environments.

Compare the following Silver Series features and see for yourself why the Silver Series operator interfaces are the best value in OITs on the market today...



HMI504T
at **\$299***
lowest in the industry

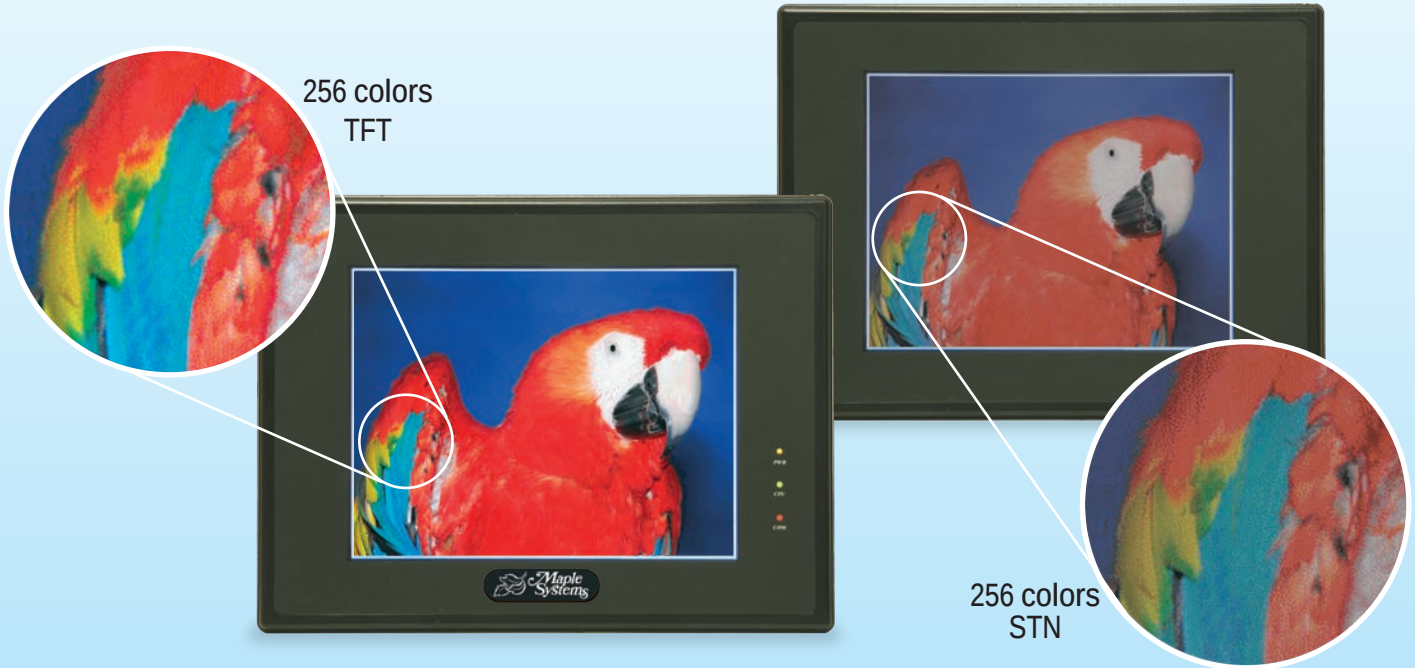
- 4.3" 256 color TFT
- Higher brightness
- Better contrast
- Wider viewing angle than any TFT display touchscreen on the market today



TFT Displays

8 Bit 256 Colors

All of our Silver Series OITs use high quality TFT displays that support up to 256 colors. More color provides the opportunity to create screens that are intuitive and interesting. TFT displays are superior to STN displays used by some of our competitors.



High Brightness and Contrast

The Silver Series TFT displays are brighter and have more contrast than STN displays.



Wide Viewing Angle

The TFT displays used in the Silver Series models provide a wide viewing angle. This enables more flexibility when mounting the OIT to a panel since readability from all angles is enhanced.



Landscape or Portrait Mode

For added flexibility, you can mount the OIT onto the panel in landscape or portrait mode.

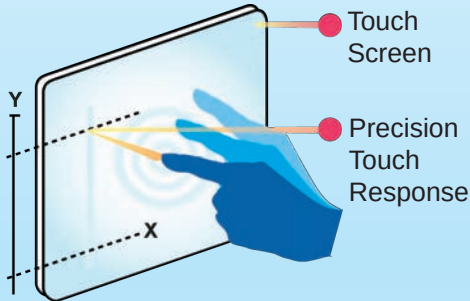


Dependable Hardware

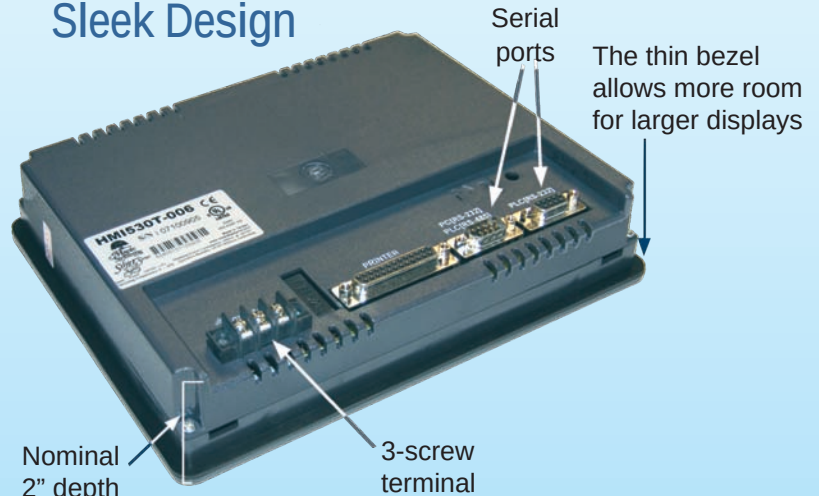
The Silver Series is designed to meet today's tough standards for durability and control. Rated for Nema 4 IP65 installations, these OITs also meet CE requirements for electrical noise emissions and immunity. The touchscreens use bright displays that support 256 color graphics to give a vivid representation of real-life objects such as lamps and switches. The built-in RISC-based 200Mhz processor and high-speed data communications port assures fast screen updates and reaction to keypresses. The analog resistive touchscreens have a minimum lifespan of over 1 million keypresses guaranteeing optimum performance. The efficient memory storage of the Silver Series allows you to create many graphic-intensive screens for complex projects. With these features, the Silver Series is designed to meet your OIT needs for many years.

Versatile Touchscreen

- Analog resistive
- Overlap objects
- Fine resolution
- Objects any size, any location



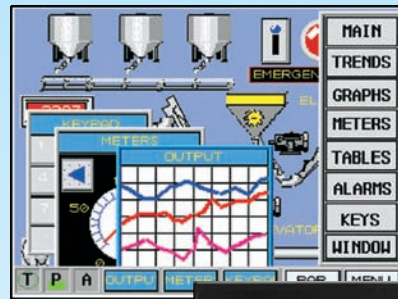
Sleek Design



No Limit to Size or Number

With the analog resistive touchscreen, the Silver Series offers more versatility when placing objects on the screen than most competitive OITs:

- Place objects of any size on the screen
- Position the objects anywhere – no worries about grid placement
- Overlay objects to perform multiple functions



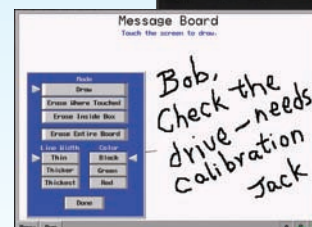
Built-in Clock and Internal Memory Storage

The Silver Series (except HMI504T) has a built-in Real Time Clock for displaying time and/or date. The clock can also be used to record time-critical events. Use internal non-volatile memory to store recoverable data and recipe information.



Write a Message

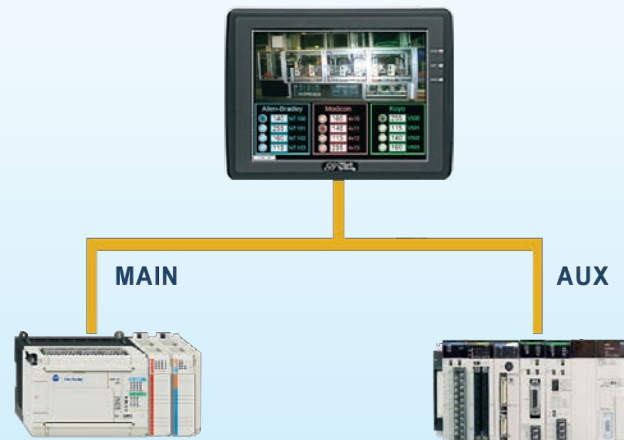
The analog resistive touchscreen enables the operator to write messages on the Silver Series OIT for others to view.



Enhanced PLC Connectivity

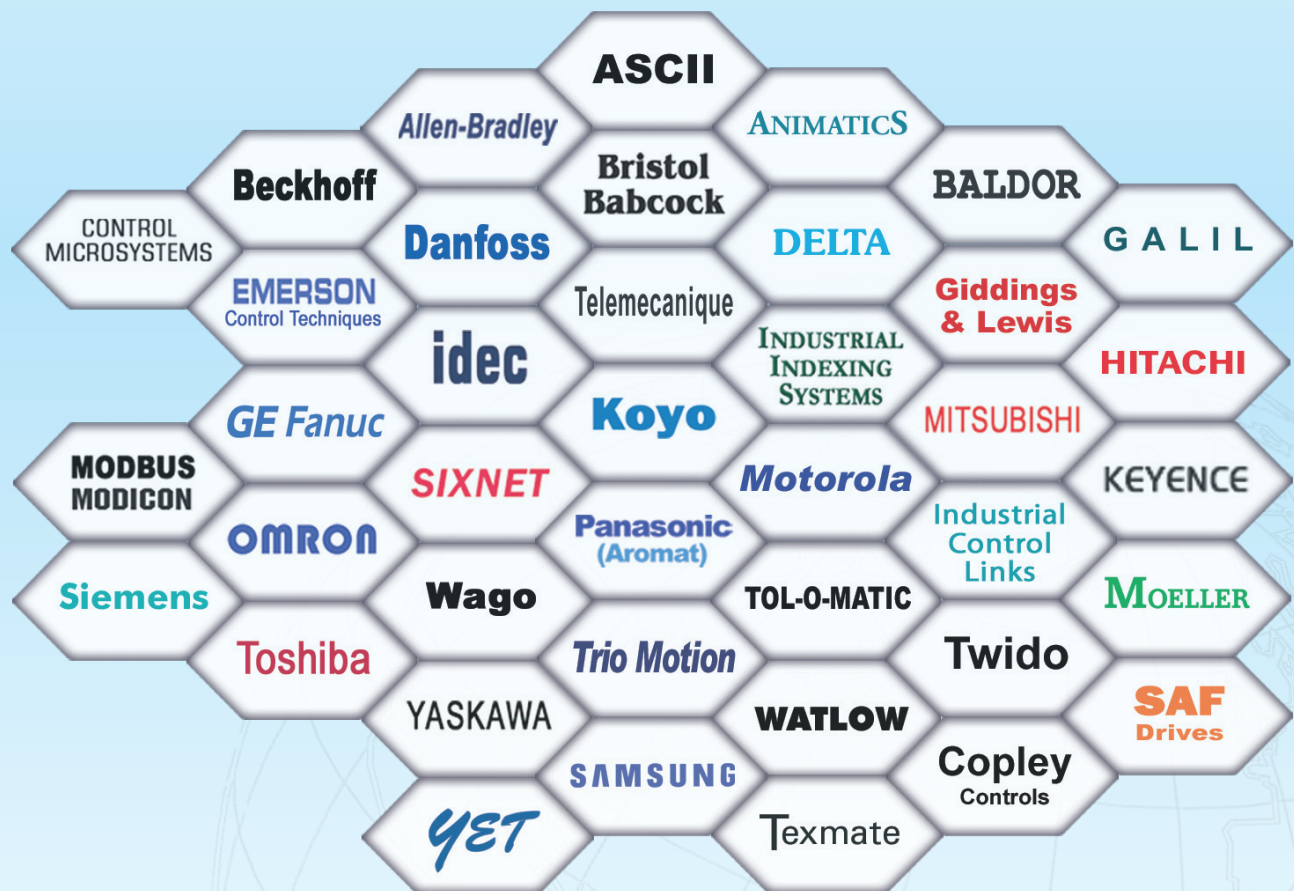
Wide Range of PLCs Supported

Every model supports one RS-232 programming port and one main PLC port that supports RS-232, RS-485 2-wire, and RS-485 4-wire. An Aux RS-232 port is also available (except HMI504T) to connect a second PLC or controller (limited drivers available).



Serial Connection

With a wide selection of communications drivers to choose from, you don't have to waste time learning a new OIT when using a different PLC.



Advanced Functional Features

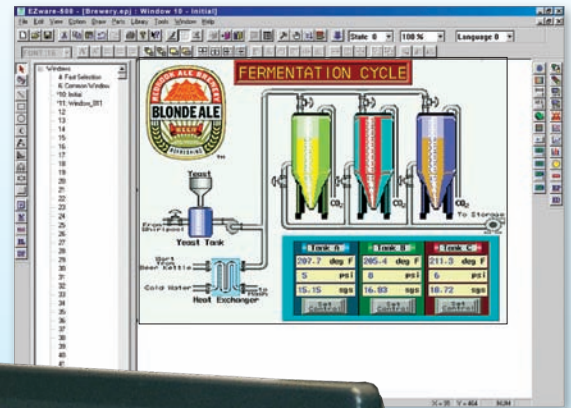
Design the Screens You Want

The Silver Series' full-featured, easy-to-use configuration software, EZware-500, gives you the power to design your screens exactly the way you want. The help screens give you the answers you need instantly, and familiar drag and drop technology makes it easy to move or resize images.

Versatile Screen Design

Using the EZware-500 software, designing screens for your OIT is a snap:

- Create up to 1990 screens (dependent upon available memory)
- Import bitmaps to permanently store in your image libraries
- Create your own graphic shapes using the built-in drawing tools
- Copy projects, screens, or objects easily
- Zoom feature for detailed work
- Group objects together and save them into a library to use again
- Multiple text size and colors available

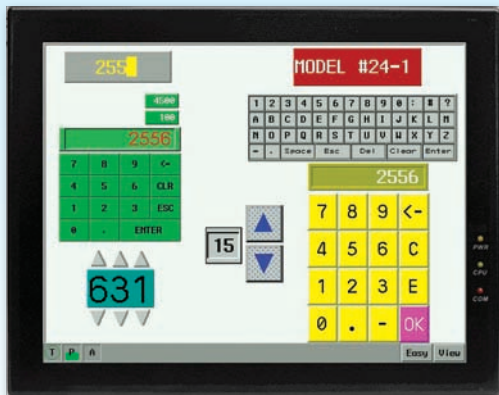


Windows Operation

Create popup windows that are displayed only when you need them. Minimize popup windows to an icon or move around the screen. Use the optional menu bar for fast keys.

Animation

Enhance your screens using animation and moving shapes. Simulate a sequence of events on your OIT screen. Display up to 32 different states of an object according to values read from the PLC.



Easy Data Entry

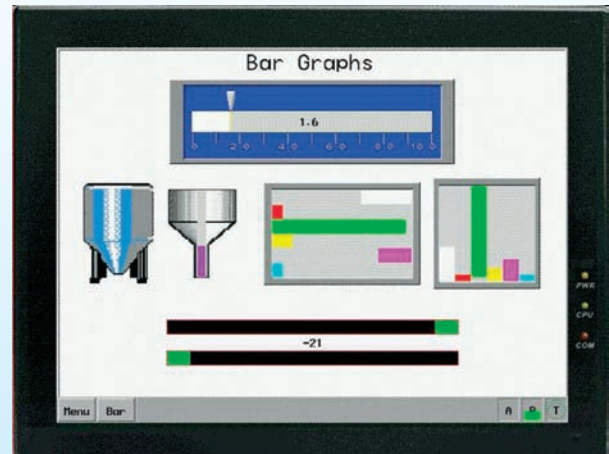
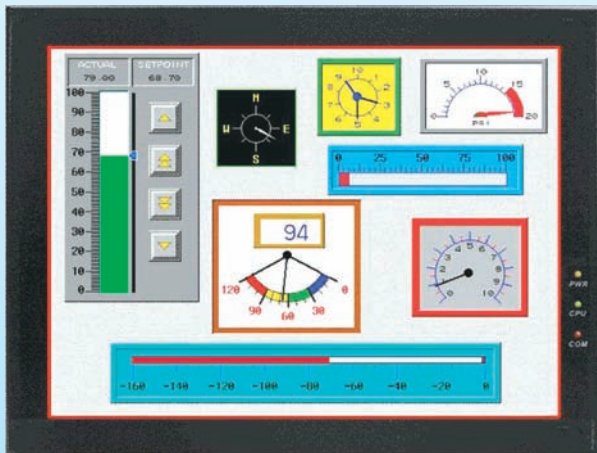
Select from a variety of keypads in the image libraries or create your own. Enter data using numeric or ASCII character formats. Linear scaling, password protection, and floating point format are all supported. Display internal memory data, or bits and register data from the PLC or controller. Use keys to jog data with each keypad.

Advanced Functional Features

Bar Graphs

EZware-500 software provides many options when creating bar graphs, including:

- Variable Alarm limits
- Selectable colors for alarm, normal background and frame
- Transparency feature for tanks



Meters

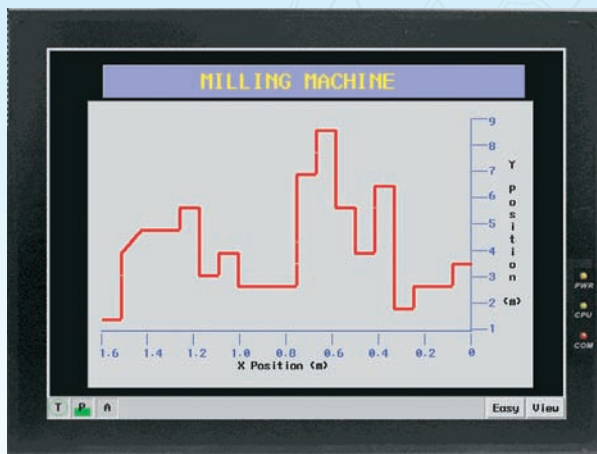
Analog meters have many options that allow you to represent variables such as temperature or pressure.

- Analog with four styles
- Two needle indicator styles
- Easily change range and color

Trend Graphs

Represent complex related data in a simple format using a trend graph.

- Retrieve PLC data over time
- Up to 16 channels
- Select single or multiple pages
- Sampling rate: 0 to 65,000 sec.
- Plot points per graph: 10 to 255
- Hold, scroll, and clear features



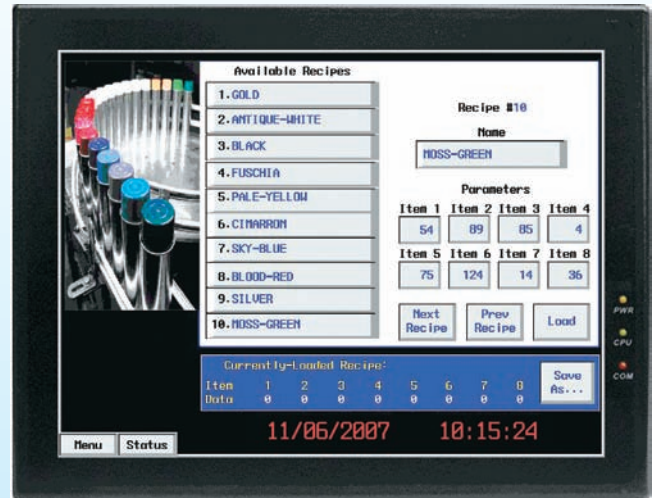
XY Plots

- Display line graphs using data
- Select single or multiple pages
- Sampling rate: 0 to 65,000 sec.
- Plot points per graph: 10 to 255
- Hold, scroll, and clear features

Advanced Functional Features

Recipes and Internal Storage

Use the non-volatile internal memory of the OIT to store data for recipes. Up to 65,535 registers available for storage. Recipe data can be downloaded or uploaded to the PLC with the press of a button. Preset values can be changed and stored back into non-volatile memory.



Alarms

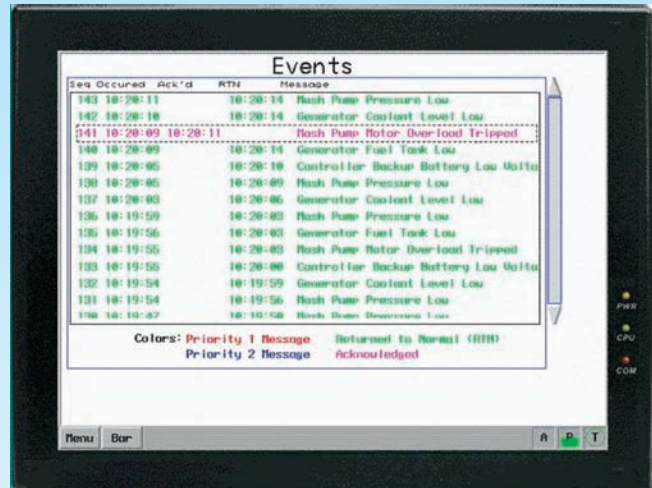
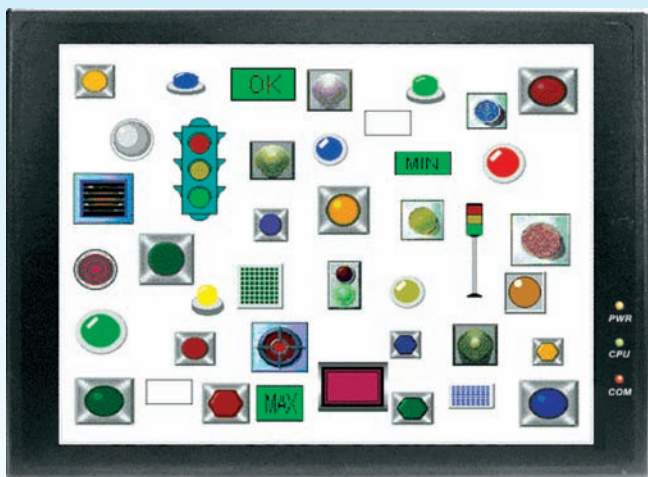
The Silver Series offers several options for displaying and organizing your alarm messages.

- Monitor unlimited alarm conditions in the PLC
- Select color and size of alarm messages
- Display as rolling marquee or as a list
- Scroll alarm lists

Capturing Events

Use the event feature to capture and display abnormal operation.

- Display a history of alarms
- Maximum of 1000 events
- Select colors to show alarm state, back to normal state and acknowledged alarm
- Display time and/or data of alarm, when back to normal, and when acknowledged
- Scroll event lists



Lamps, Pushbuttons, Multi-State Switches

Select from an extensive collection of images available in the graphic libraries or import bitmaps, or create your own custom designs.

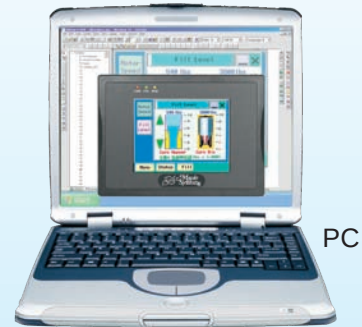
- Up to 32 states
- Any size
- Overlap objects
- Activate macros

Easy To Use Software

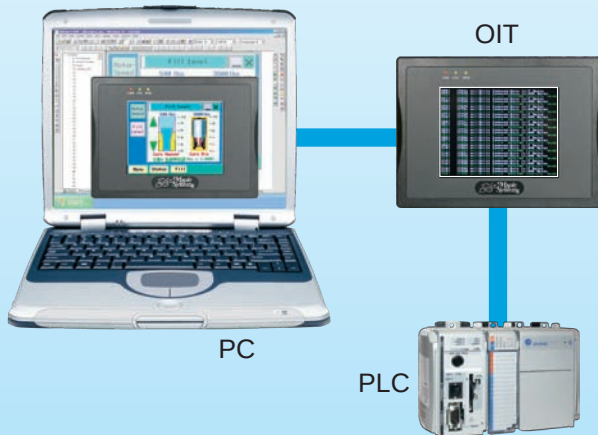
Simulation Mode

The Silver Series has three modes for project simulation -- one offline and two online. Use offline simulation to immediately test the operation of the OIT on your computer (no OIT necessary). Online simulation allows testing your project using your computer and your PLC. No need to waste time downloading the project to the OIT first before testing.

Offline



Online - Normal

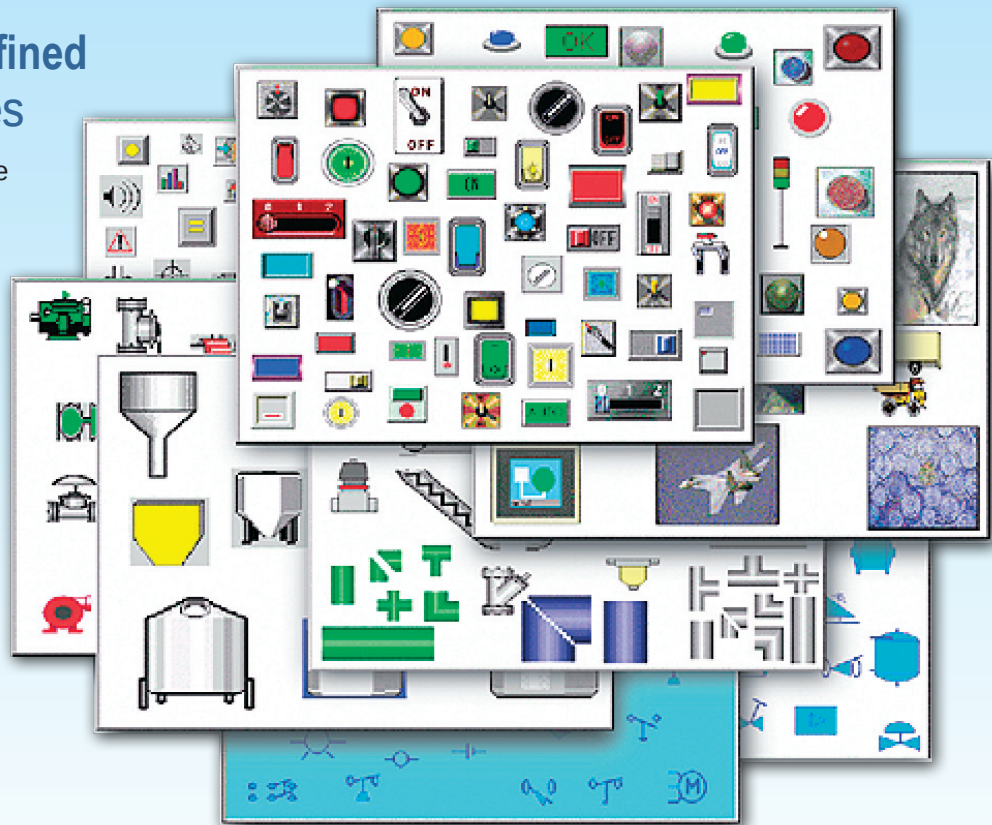


Online - Direct



Over 500 Predefined Graphics Images

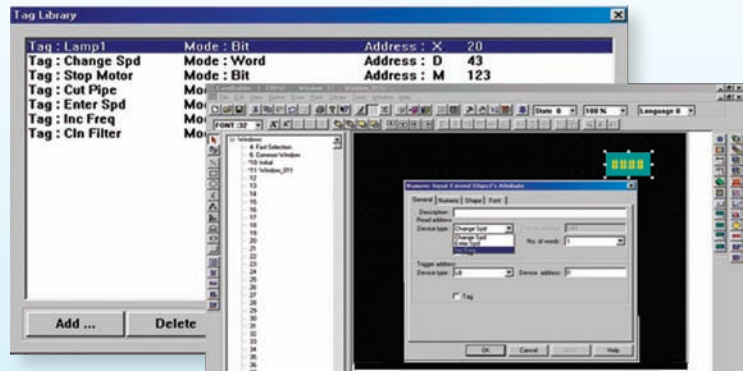
Don't have time to create your own images? Save time by using ours. EZware-500 has over 500 of the most commonly used industry symbols -- including lamps, switches, motors, pumps and more.



Easy To Use Software

Tag Database

Need to change PLCs and don't want to totally reprogram your entire OIT? Our tag database makes it easy to do this quickly and easily, allowing you to change object tags rather than changing each object's assigned PLC address.



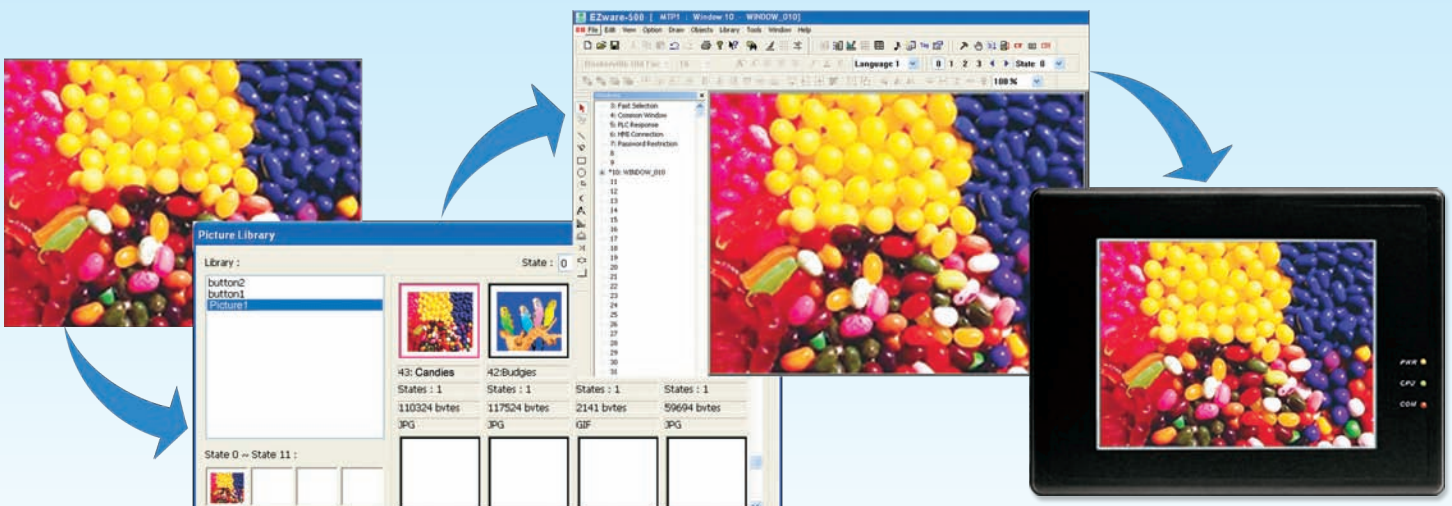
Multi-language Feature

Configure up to four different text labels for each object on the OIT screens. This allows the programmer to create one project that can display text up to four languages with the press of a button.



Import Custom Pictures

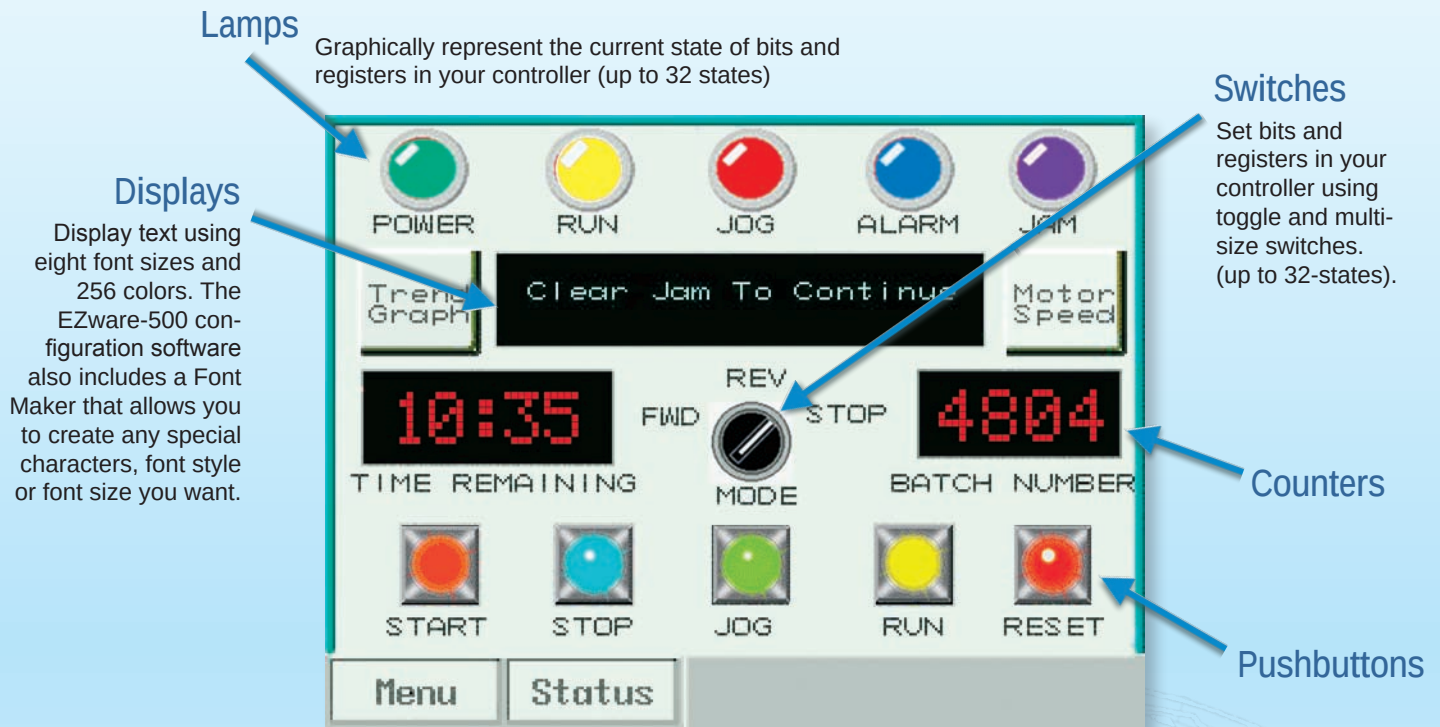
Easily import and store your custom pictures (using Bitmap) into the configuration software. 256-color (8 bit) images are supported. Once stored into a picture library, these images are readily available for any new project that you create.



Easy To Use Software

Create Exactly What You Want

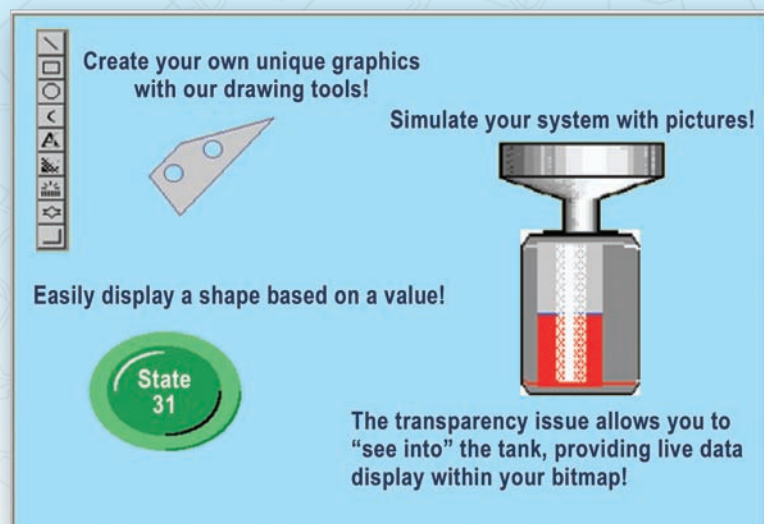
There is no limit to the freedom you have when creating screens for your OIT. Multiple text sizes allow text to be displayed in varying colors and sizes. Assign up to 32 different states to any object. Lamps can be configured to blink, shown with a text label, or any color of your choosing. Use predefined lamps, function keys, keypads, or create your own custom objects.



Easy to Program, Easy to Configure, Easy to Use

Loaded with features and easy to use. What could be better? The Silver Series has been designed with simplicity and ease of use as our goal -- allowing you to program your OIT exactly the way you want quickly and easily. The EZware-500 configuration software saves you time by:

- Importing bitmaps that can be saved to a library and adjusted to any size that you need
- Multiple objects that are used frequently can be saved to a group library and reused again
- Projects can be saved, compiled, and instantly tested by clicking a single button



Silver Series



Part Number	HMI504T	HMI520T	HMI530T	HMI550T
Display Type	4.3" TFT 256 colors	5.6" TFT 256 colors	8.0" TFT 256 colors	10.4" TFT 256 colors
Display Size (WxH) Viewing Area	3.7" x 2.1" [95 x 54 mm]	4.5" x 3.5" [114 x 89 mm]	6.3" x 4.8" [161 x 122 mm]	8.4" x 6.3" [213 x 160 mm]
Display Brightness	300 cd/m²	500 cd/m²	400 cd/m²	400 cd/m²
Display Contrast	400:1	150:1	250:1	300:1
Display Resolution	480 x 272 pixels	320 x 234 pixels	640 x 480 pixels	640 x 480 pixels
Viewing Angle (°)	80/80/80/80 (T,B,R,L)	55/65/65/65 (T,B,R,L)		
Touchscreen Type	4-wire analog resistive			
CPU Type	200 MHz 32-bit RISC			
Memory	2MB Flash, 4MB DRAM			
Serial Ports	Com1: PLC [RS-232] Com2: PC [RS-232], PLC [RS-485]			
RTC	NA	Built-in		
Recipes	NA	Yes		
Dimensions (WxHxD)	5.0" x 4.0" x 1.5" [128 x 102 x 38 mm]	8.0" x 5.9" x 2.0" [204 x 150 x 50 mm]	9.1" x 6.9" x 2.2" [231 x 176 x 55 mm]	12.4" x 9.4" x 2.4" [315 x 238 x 62 mm]

* Prices and specifications are subject to change without notice.

Elevating the Art of the Operator Interface ...

About Maple Systems

Maple Systems is unique in the industrial marketplace. We are operator interface (OIT) experts who have specialized in the design, manufacture and support of operator interface solutions for 25 years. This specialized experience is evident in the quality, versatility and affordability of each of our operator interface terminals.

Our controller support is unsurpassed, with operator interface terminals that communicate with over 80 families of controllers from industry-leading manufacturers like Allen-Bradley, Omron, Siemens, Koyo, and GE Fanuc, as well as the hundreds of PLCs and motion controllers that use Modbus and ASCII communications. And each of our products has all of the features you need at extremely affordable prices.

Presented by

Whether you need to display simple text or complex data entry and process monitoring, our team of OIT experts can help you to find the perfect solution for your application.



425.745.3229

425.745.3429 (fax)

www.maplesystems.com

808 134th St SW, Suite 120

Everett, WA 98204

**Value ... Performance ... Personalized Solutions ...
From the Operator Interface Specialists**