Pro-face

for the best interface

Globally Recognized
Globally Trusted
Globally Supported

Locally Agile





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Pro-face

for the best interface

A Global Leader for 40+ Years

Pro-face is the leading independent global supplier of visualization and data management solutions for industrial applications.

We continue to set the standards for industrial solutions by offering the industry's most extensive product offerings and the highest levels of connectivity and support.

- » More than 40 years providing industrial Human Machine Interface (HMI) technology
- » Pro-face is the most trusted name in the industry
- » Worldwide applications support teams ready to help you
- » Serving more than 50 countries with17 main offices and 1200+ employees
- » We speak your language: English, Spanish, Portuguese, Japanese
- » We have a vast distribution network to provide products quickly anywhere



One HMI Environment

- » Easy, full-featured HMI development
- » Multi-platform operator interfaces
- » 100% tested 3rd party connectivity
- » Free application example projects
- » Factory to office data connectivity

Service and Support

- » No service/support contracts
- » 24/7 online knowledge center
- » Free HMI learning center
- » Proof-of-concept support
- » 5 day repair turnaround

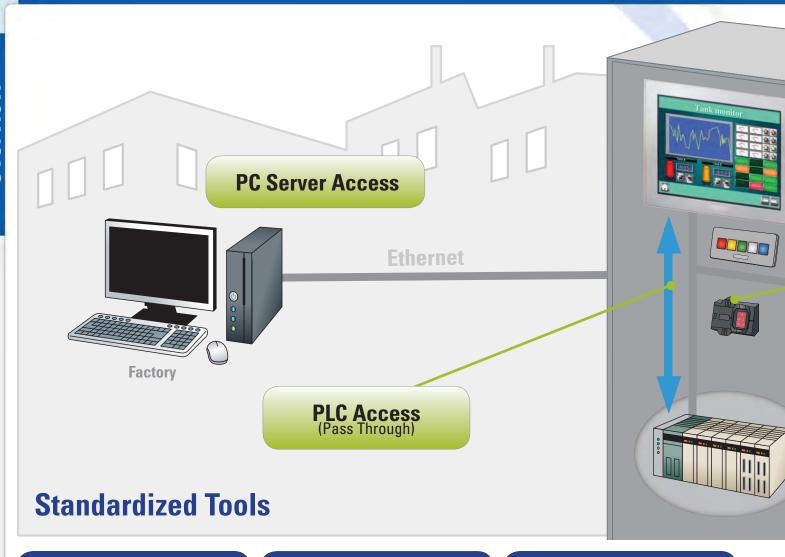
Investment Protection

- » 25+ years cutout compatibility
- » 15+ years software migration
- » 7+ years service policy
- » 100% product documentation
- » Globally certified

Innovation + Dependability



Solutions At Your Fingertips



GP-Pro EX Software

A Premier HMI Development Software that Supports Dedicated and Open HMI (PC-based) solutions. One Software package saves money and development time.

Rich Functionality delivers tools to cut application design time significantly. Features such as built-in logic programming, video support, and extensive 3rd party connectivity.

Remote Support tools are included that lower maintenance and support costs. Maintenance can be done with or without a PC on site.

pg.16

Testing and Debugging

Simulation is an integral part of GP-Pro EX. Why wait to be in front of a customer before knowing how the HMI application will perform?

Test before you connect

The simulation feature creates a virtual HMI environment on your PC. It allows you to press buttons, enter values and monitor application behavior.

Off-site Diagnostics is a great use of the simulation tool. OEMs and System integrators will find this invaluable as they attempt service and support at the end-user site.

pg.24

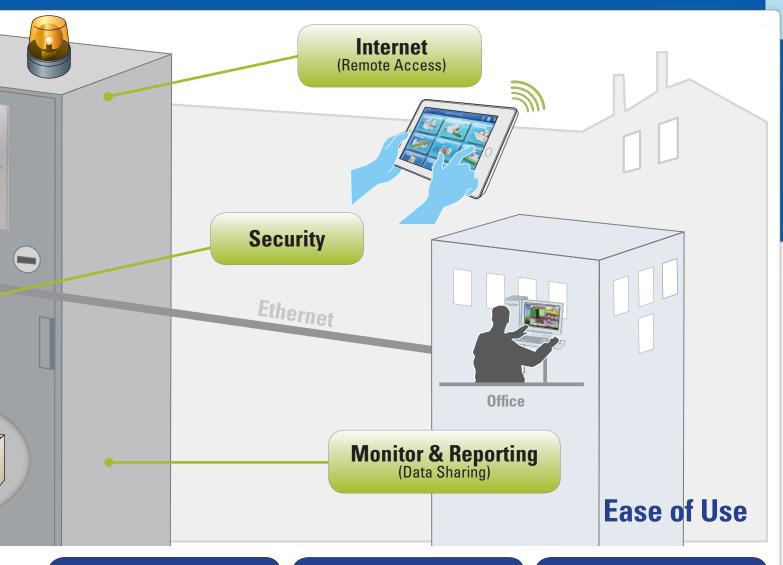
Protection and Safety

A wide variety of security features are built into GP-Pro EX development software. The developer can employ multiple methods to secure their application.

Intellectual Property Rights protection is built into GP-Pro EX. You can secure and protect access to sensitive application information on a per part, per screen or entire HMI application.

Safety for Machine Operators can be managed by limiting access to key maintenance functions or prevent unauthorized operational changes.

pg.25



Easy Field Updates

Looking for a solution to perform updates without the need for a PC on site or even the development software? We have your solutions right here.

Multiple Machine updates are easy using a USB memory stick to upgrade operator interface with new performance enhancements. Easy enough that your customer can upgrade their HMI.

Lower your Operational Costs

The remote maintenance tools provide different methods to perform machine maintenance. Choose what works for you.

pg.29

Remote Support

Select the right tool that meets the application need. Access, monitor, control and upgrade the HMI over the internet. Full service and support functionality.

Reduce On-Site Travel using tools to extract log files, alarm history or update recipes and new security parameters. Even get access to your PLC for updates. Work from your home office.

Alarms via RSS Feeds are received from HMIs in different locations. This benefit allows you to prioritize daily machine maintenance activities.

pg.30

Pro-Server EX Software

Expand your machine's performance using Pro-server EX to provide data connectivity and reporting functionality. Get the right information to the right people.

Powerful Data Connectivity allows HMI to share information from machine to machine or to the corporate offices. This includes data that may be difficult to share using your PLC.

Business System Integration such as an MRP, MES, ERP system is easy with the variety of different connectivity interfaces available. Check them out!

pg.35

Your Choice of Platform



Flexible and Easy Installation with Compact Configurations 22m Hole LT4000M Series

Madelinal Bibliotecia Flore

iPC

PS4000 Series

The PS4000 Series offers extensive connectivity, high performance, energy efficient processor options, and quick and easy storage expansion.

Flat Panel Monitors



Fingerprint Recognition Unit



FP3000 Series

Pro-face Flat Panel Monitors offer a wide range of display sizes, from 10.4" to 19" TFT color with enhanced resolution that will meet the needs of your application(s). They are all extensively certified and with Pro-face Investment Protection, you can minimize product migration costs by maintaining hardware cutout compatibility as new models join our family of products.



Illuminated Switch

7

HMI Overview

Standard



GP-4601T / GP-4603T





GP-4501T / GP-4503T



Display (Resolution)	65,536 color TFT (800 x 600 pixels	65,536 color TFT (640 x 480 pixels)	
Brightness Control	16 level Brightness		
Touch Panel Type	Analog or Matrix (Supports 2 point touch)		
Memory	FEPROM 32MB (Application Memory), 320KB (Backup for HMI), 64KB (Backup for Control)		
Ethernet	x1 (IEEE802.3i / IEEE802.3u, 10BASE-T/100BASE-TX)		
SIO	COM x 2		
SD Card Slot	x1		
USB	USA Type-A (2.0) x 1, USB mini-B (2.0) x 1		
Replaceable Battery	Yes		



5.7 inch DC 24V **3.5** inch DC 24V

GP-4401T

GP4301T / GP-4303T

GP-4201T / GP-4203T







Display (Resolution)	65,536 color TFT (640 x 480 pixels) 65,536 color TFT (320 x 240 pixels)			
Brightness Control		16 level Brightness		
Touch Panel Type		Resistive Film (Analog)		
Memory	FEPROM 32MB (Application Memory) FEPROM 16MB (Application Memory), 320KB (Backup for HMI), 64KB (Backup for Control)			
Ethernet	x1 (IEEE802.3i / IEEE802.3u, 10BASE-T/100BASE-TX)			
SIO	COM x 2 COM x 1			
SD Card Slot	x1 No		No	
USB	USA Type-A (2.0) x 1, USB mini-B (2.0) x 1			
Replaceable Battery	Yes Contact Pro-face			

W Model









GP-4501TW

GP-4401WW

GP-4301TW

GP-4201TW









Display (Resolution)	65,536 color TFT (640 x 600 pixels) 65,536 color TFT (800 x 480 pixels) 65,536 color TFT (320 x 240 pixels)			
Brightness Control	8 level Br	8 level Brightness		
Touch Panel Type	Resistive Film (Analog)			
Memory	FEPROM 16MB (Application Memory), 128KB (Backup for HMI) FEPROM 8MB (Application Memory), 128KB (Backup for HM			
Ethernet	x1 (IEEE802.3i / IEEE802.3u, 10BASE-T/100BASE-TX) No			
SIO	COM x 2			
SD Card Slot	x1 No			
USB	USA Type-A (2.0) x 1, USB mini-B (2.0) x 1			
Replaceable Battery	Yes Contact Pro-face			

Modular





3.4 inch
Compact Type

GP-4301TM

GP-4201TM

AGP-4100







Display (Resolution)	65,536 color TFT (320 x 240 pixels) Monochrome LCD 200 x 80 p		
Brightness Control	16 level Brightness		
Touch Panel Type	Resistive Film (Analog)		
Memory	FEPROM 8MB (Application Memory), Equivalent to 128kb *1 (Backup for HMI) FEPROM 2.2MB		
Ethernet	x1 (IEEE802.3i / IEEE802.3u, 10BASE-T/100BASE-TX) x1 (IEEE802.3u / IEEE802.3u , 10B		
SIO	COM x 1 *3		
SD Card Slot	No		
USB	USA Type-A (2.0) x 1, USB mini-B (2.0) x 1		
Replaceable Battery	Contact Pro-face		

HMI Overview

Control

All-In-One Operator Interface plus Control.



LT3300





LT3200





Display Resolution	320 x 240 pixe	320 x 240 pixels (QVGA)		
Display Type	Monochrome Black/White LCD + TFT Color LCD	Monochrome Amber/Red LCD		
Display Colors	16 shades + 4,096 colors	8 shades		
Input Voltage	24 VD	24 VDC		
USB	1 Type A (1	1 Type A (1.1) port		
I/O Expansion	Mix & Match any 3 EXM Modules	Mix & match any 2 EXM Modules		
Embedded Digital I/O	16 in / 16 out	12 in / 6 out		

Modular

Touchscreen Operator Interface plus Control, with 22mm mounting.



LT4301TM





LT4201TM



Display Resolution	320 x 240 pixels (QVGA)		
Display Type	TFT Color LCD		
Display Colors	65,538 Colors		
Input Voltage	24 VDC		
USB 1 + 2	Type-A (2.0) + Mini-B (2.0)		
Embedded Analog I/O	4 in / 2 out		
Embedded Digital I/O	12 in / 8 out or 20 in / 12 out		

AGP3000 w/ Control (CANopen, FlexNetwork, Discrete I/O), and AGP3000 Multimedia are also available. **Consult eCatalog for more information.**

Handheld HMI

Touchscreen Operator Interface with 11 Function Keys and Dual Protocol Support.



AGP33x0H





Display Options	Monochrome LCD	STN Color LCD	TFT Color LCD
Display Colors	Gold / Black (16 shades) 4,096 Colors 65,536 Colors		65,536 Colors
Function Keys	11 keys		
USB	Туре-A (1.1)		
Ethernet	Yes		
CF Card	1 slot, Type II		
Serial Ports	RS-232C / 422 / 485		

HMI Connectable Devices

- Easy to Connect USB connection
- Easy to Install 22mm hole mounting
- Easy Setup No need for special programing







5 switches with multi-colored LEDs	Access HMI without requiring password		
Tactile Switches	100 users (2 records for one user)		
Changeable among 6 colors, 3 speed blinking	15 levels of security (set by HMI)		
LED Colors: Red, Green, Yellow, Blue, White, Orange Traceability of users & operations by HM			
Connects to GP4000M, GP4000, LT4000M			
Connects to HMI via USB cable			
GP-Pro EX v. 3.1 or later			



EZ Fingerprint Recognition Switch

iPC Overview

Node Box







PS4000B

PS4000B

PS4000B

Ram	Atom N270: 1GB to 3GB
	Core2Duo: 2GB to 8GB
Storage Temperature	-20 to 60° C (-4 to 140° F)
Ethernet	Yes
Serial Port	2
USB	5
Input Voltage	24Vdc
Processor Speed	Core2Duo: 2.26 GHz
	Atom N270: 1.6 GHz
Power Consumption	Core2Duo: 90W (max)
	Atom N270: 60W (max)







Mate this industrial computer with one of Pro-face's Flat Panel Monitors for a complete industrial computing solution. The PS4000B can also be installed remotely from one of our FP3000 Series units.

Flat Panel Monitors



FP3900T



FP3710T



FP36x0T

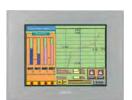
10.4 inch AC 100- 240V DC 24V

FP3500T









Display (Resolution)	1280 x 1024 pixels (SXGA) 1024 x 768 pixels (XGA)			680 x 480 pixels (VGA)
Display Type	TFT Color LCD			
Display Colors	16,777,216 Colors 262,144 Colors			Colors
Display Area	376.32 x 301.06 mm	304.1 x 228.1mm	245.76 x 184.32 mm	211.2 x 158.4 mm
Touch Screen	Resistive Film (analog)			
Touch Screen Interface	RS-232C or USB (Type B, USB 2.0 compatible)			
USB (1)	Type-A 2.0 (when flat panel monitor USB is connected to PC)			
USB Location	Rear or Front Bottom			
Video	VGA Interface (analog RGB) or DVI-D Interface Connector			

Panel PC







PS4700

PS4700 (Z510)

PS4800







Slot	PCI x 0, PCI Slot x 1, PCI Slot x 2 PCI x 1/1PCIe x 1	PCI x 0	PCI x 0, PCI Slot x 1, PCI Slot x 2 PCI x 1/1PCIe x 1	
Ram	1GB to 3GB (Atom N270) 2GB to 8GB (Core2Duo)	1 GB to 2GB	1GB to 3GB (Atom N270) 2GB to 8GB (Core2Duo)	
Display Type		TFT Color LCD Display		
Touch Screen		Resistive Film (Analog)		
Ethernet	Yes			
Display Area	W 383.5 x H 282.5 mm [15.10 x 11.12 in]		W 459.5 x H 359.5 mm [18.09 x 14.15 in]	
Serial Port	2		2	
USB	5 3		5	
Input Voltage	24Vdc / 100 to 240 Vac	24Vdc / 100 to 240 Vac 24Vdc		
Display Resolution		XGA (1024 x 768 pixels)		
Stainless	Yes Yes			













ISO 9001:2000 Quality System Certified

ISO 14000 Quality System Certified



Extend Product Part Life with large heat sink & intelligent fan



Easily Replaceable "Slide-In Slot" **HDD/SSD** Drive



Reliable Operation with a Disk-less **System**

HMI Software Solutions





Create Your HMI Application in Minutes

Set up communications

- Choose and set up PLC and third-party devices effortlessly
- System settings are logically arranged and easy to find

Design application/screens

- Drag-and-drop addressing, parts and colors
- Efficient features to reduce development time
- Create consistent look and feel using the user-defined templates

Simulate and test

- Verify before you travel
- · Debug your application without hardware
- Test without downloading

Download/transfer

 Tamper-proof HMI application – password-protected project source

One development software for both dedicated and open windows-based operator interfaces

WinGP IPC Runtime

Runtime software for GP-Pro EX created applications

 HMI applications developed for Pro-face dedicated operator interfaces are quickly installed on industrial touch screen computers creating On-Demand Windowsbased HMI

pg.33

Remote PC Access

Harness the power of a PC from your dedicated HMI

- View PDF, CAD, DOC, XLC or any file type located on a remote server PC
- Instantly update documentation to an entire plant by storing manual, data sheet, help files on one server
- Link directly to OEM Web pages

pg.32

Web Server

View HMI information and alerts through a web browser

- View alarms on any PC via Web browser or RSS reader
- Remote troubleshooting, Web viewing of alarms; subscribe to alarm RSS
- View PLC and internal addresses for troubleshooting

pa.31

FTP Server

pg.30

Upload and download data files to the operator interface over the internet

Memory Loader

pg.29

Field maintenance and backup with data protection

Remote HMI

Monitor & control HMI screens from a smart phone or tablet (data input, send work instruction, etc.).

pg.26

Transfer Tool

pg.27

Easy machine maintenance and data log retrieval

Pass Through

pg.28

Programming and monitoring PLC via operator interface

Data management software

Pro-Server E



- Applications
- Collect and Manage Data
- Connectivity Support



Pro-face open- platform HMI





Application software for sharing user-defined factory-floor data throughout the corporate enterprise



GP-Viewer EX

Monitor and Control Multiple Operator Interfaces from a Single Remote PC pg.38 Remote Camera Monitoring

Camera-Viewer 🗗

Record, Display and Playback Live Video of **Industrial Operations** on a Remote PC pg.39



One development software for both dedicated and open windows-based operator interfaces



Intuitive HMI Screen Development Editor

Create Your Application in Only Minutes



1. Set-up Communications

- Choose and set up PLC and third-party devices effortlessly
- System settings are logically arranged and easy to find

2. Design Application / Screens

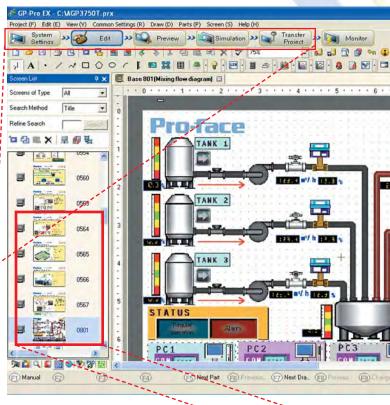
- Drag-and-drop addressing, parts and colors
- Efficient features to reduce development time
- Create consistent look and feel using the user-defined templates

3. Simulate and Test

- Verify before you travel
- Debug your application without hardware
- Test without downloading

4. Download / Transfer

 Tamper-proof HMI application – password-protected project source



Thumbnail View

- Visually select the screens you need
- Updated instantly
- Screen number and descriptive label are shown for clarity

0565

Visual PLC Addressing

- Smart visual address mapping for fast PLC-address-to-part communication connections
- Drag and drop PLC address onto part to quickly link controller address to push button, tank, graph, etc.
- Gives a quick visual check on how each part is mapped to controller or I/O device

 Address

 Section 1709

 Sectio
- Significantly reduces screen development time
- Quick indication of what controller addresses are still available



Extensive Time-Saving Features

Create consistent look and feel, detailed applications in minutes!



Resolution Conversion

Adjusts HMI application to different screen sizes



Configurable Toolbars

 Show the toolbars you use most frequently; hide the ones you don't to free up more workspace



Workspace Tabs

- · The tools you need at your fingertips
- Quickly see screen thumbnails, system settings, properties, address map, search-and-replace and more



Headers and Footers

 One-click access to multiple user-defined headers (e.g. title) and footers (e.g. menu) for perfect placement. Edits to headers/ footers update all screens simultaneously!



Multifunction Switches

- Execute multiple actions with one switch
- No need to stack switches, leading to possible operator error
- Choose Bit Switch, Word Switch, Special Function, change screen, etc.



Property Window

 Quickly make changes to multiple objects with a single mouse click



Templates

- Reuse complete screens with addressing
- Create your own
- Build entire applications by using templates
- Perfect for OEMs



Search and Replace

- Easily find text anywhere in the application
- Quickly replace addresses or text throughout the application



Project Comparison Tool

 You can check the details to see if there are any differences between project files



Application Investment Protection Import older project files

Project Converter

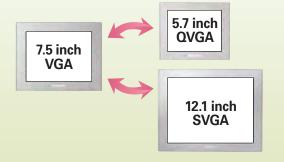
Import and convert project data created with previous versions of GP-Pro to upgrade to the latest hardware. You can also save projects created in GP-Pro EX 3.1 to be read by 3.0 with the version reverter tool.

GP510



Auto Screen Scaling

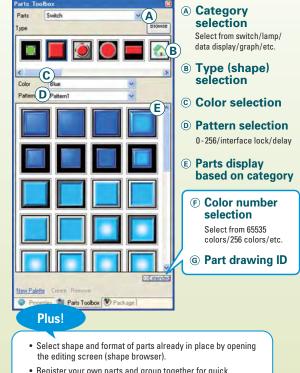
Built-in Resolution Converter automatically converts project files to different resolutions. Significant time savings in changing screen sizes.



Powerful Parts Toolbox allows for part customization and expansion

Parts Toolbox

Create more intuitive screens by understanding how parts are used at the site. Easy search system leads you to the right drawing.



 Register your own parts and group together for quick part placement

Share Images and Parts

Register your own parts and save them as a template on the server to share. Group together for quick part placement.



Free Online Parts enhances the look and feel of your **HMI** to differentiate you from your competitors

3D Real Parts

Add three dimensional "Real Parts" to create easy to understand and impressive operator interface.

Meters

Production equipment measurements and temperatures intuitively displayed.

















Switches/Lamps

Appearance of a real switch or lamp adds value for the machine operator.























3D Real Parts add value to your machine

Making an HMI application that is easy to read, easily understood and minimizes operator error can be challenging. Use these enhanced parts to provide familiarity to the operator.

Free Part Samples, etc.

Additional free part samples are available on the web for downloading. You can quickly expand your selection of factory automation equipment images to enhance HMI screens.

Thousands of Parts

Easily incorporate part samples into existing screens.



OK/Cancel Choice Window



Movable

Library of Screens

Sample screens that help you reduce screen development time.



Clock Data



Alarm History

Extensive Features

High functionality distinguishes Pro-face HMIs from Competitors.



Multiple Trend Graph Display Feature



Capturing USB Storage Screen

Pre-Configured Device Connections

Simplify complex control settings for controllers and inverters with sample communication presets.



Yokogawa Electric Corporation: FA-M3



Electric

Our FREE Technical Support site is a vast resource of product and application knowledge designed to help you maximize the value of your Pro-face HMI

- FAOs
- Manuals
- Sample Downloads
- Screen Development Techniques
- Driver Downloads

- HMI Learning Center
- Application Notes
- Certifications
- Much, Much More...

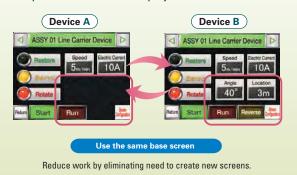
HMIsource.com/otasuke



Reduce number of screens with extensive animation features

Part Visibility On/Off

Control part visibility by device or operator. Save development time and reduce project file size.



Move/Rotate Graphics

Move and rotate drawings and images to reduce design time when creating call-up screens.



Express progress and movements on a conveyer.

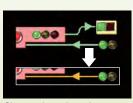


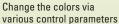


Animate meters to display realistic situations.

Control Graphic Colors

Vary the color of drawings and images, to eliminate work involved in creating call-up screens.







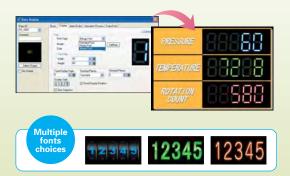
Color change showing current operating conditions

Change the color of lines, drawings, letters, graph lines, background, etc.

Functional parts simplify screen design and enhance readability

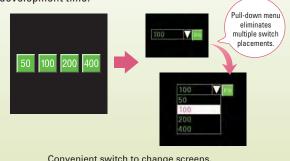
Font Choices for Data Display (Bitmap)

7 segment feature on data display provides for easy readability and visibility.



Pull Down Selector List

Reduce the number of switches installed using pull-down selection parts to save display space and development time.



Convenient switch to change screens.

Scalable Numeric Entry Display

Numbers entered using the numeric keypad are displayed on the keyboard created by the user to prevent incorrect data entry.

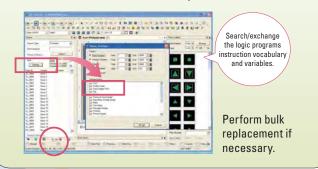


Key size may be scaled easily to match display criteria

Maximize the value of your HMI and do more than before.

Quick Search Window

Search for parts information by item in the project. Edit groups of devices, labels, and parts by using the search results. You can also search and replace text on screens.



Fast Address Mapping

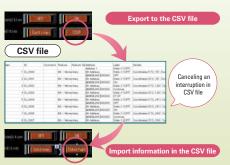
Drag and drop logic addresses onto graphic images for fast linking and reduce logic control mistakes.



Call up parts by clicking a parts ID.

Import/Export the Part List in CSV

Export a parts information record to CSV file. Make changes using Excel and import information back into the project. Make fast label changes to a large number of parts.



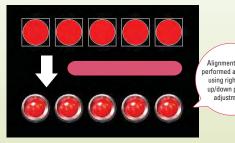
Simultaneous Part Address Changing

Change selected part addresses simultaneously. Duplicating similar screens is ultra fast and easy.



Multiple Part Editing

Change the shape of multiple parts at one time. Easily re-create images from past project files.



Alignment can be using right/left &

Display CAD Images

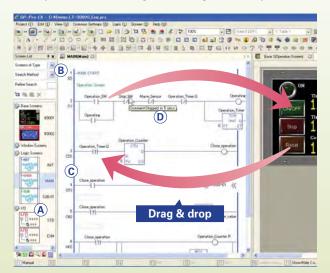
Write DXF, DWF files downloaded using Visio to GP-Pro EX project files. You can also use CAD data on screens.



Unburden your PLC with built-in control!

Ladder Logic Control Programming See supported instruction notation list

GP-Pro EX provides a built-in logic editor to create an all-in-one HMI plus Control application. Using one software for both screen development and ladder logic ensures glitch free operations and tighter revision control.



(A) Block-structured Subroutine

Initialization logic, main logic and subroutines can be blocked, enabling smooth editing.

(B) Logic search/replace

Search or replace the indefinite numbers of logic with the search window.

C Number of steps displayed

The size of a logic program is easily viewed with the number of steps displayed up to 60,000 steps. The internal memory is reduced to 1MB for 60,000 steps (screen data).

(D) Tip Display for Comments

Displaying comments as tips makes a program clear. Comments can be displayed at any time.

Use the logic program for controlling external devices!

*Not available on all models.

*Not compatible with some connection device address specifications

Cool Maintenance Features allow monitoring of logic under operation

Logic Display

You can check the operation of a logic program within the system on site.

Address Display

The logic address is displayed, enabling you to check variable names and their current values.

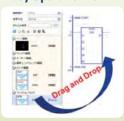
Online Editing

You can change a logic program even while the control function is operating without stopping work.

Function Block

You can reuse logic programs by making them into a component, which drastically reduces development hours and mistakes in programming.

Easy Operation for EX



Save Memory for GP

Only change on FB, changed all FB.

Easy to place FB to Ladder by Drag & Drop. Able to reduce memory when same FB used.

Create your own functions or write a simple communication driver

Develop a program or simple communication driver using Pro-face D-Script simplified language. Re-use previous revisions of D-Scripts created by user, no need to re-create work previously done.

unction

Bit operation	. UN, UFF, clear
Memory operation	. Copy and shift, etc.
CF file operation	. File access, delete list output, etc.
USB file operation	. File access, delete list output, etc.
SIO port operation	. Send/receive data
Printer operation	. Send data
Draw	. Call screen, circle, straight line, square, etc.
Others	. Debug message and exit WinGP

nditional

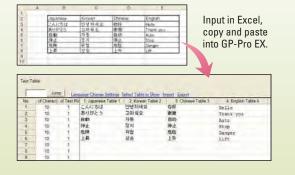
E	Branching	IF, LOOP, etc.
(Comparison	AND, OR >, =, <, etc.
()peration	+, x, bit operator, etc.

Configure the settings on a trigger condition such as "Continuous Action", "Timer-Bit change" and "When condition is satisfied". Additionally, a wide variety of functions such as search (searching and replacing strings in a script) and debugging functions (displaying messages and addresses on the system), etc., are provided.

Easy language setup according to the operator

Create Multi-Language Applications

Use Excel to create multi-country text tables to allow the HMI operator to easily switch between display languages.



Use Windows™ Fonts for Readability

Windows[™] computer fonts may be used for the data display, text table, and alarm. Anti-aliasing support in labels for smooth font display.

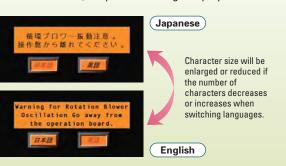


Responds to multiple languages.

The font and size of the text table and label of the switch/lamp can be setup individually.

Automatic Font Size Adjustment

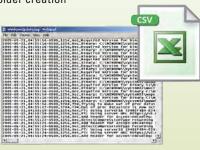
Switching languages when multiple-languages are used automatically adjusts font sizes according to the size of the switches, lamps and message displays.



Extended alarm functions for reduced labor thanks to added enhanced functions

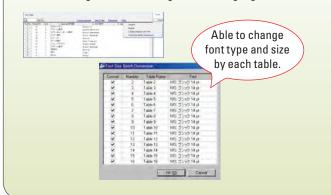
Export Alarm and Sampling Data to CSV

- Any international date format available
- Multi-Language Text Table feature is supported
- Improved performance when saving files with New Folder creation



Batch Conversion of Text Table Font

Able to change the font setting for each language at one time.



Control Alarm Indication

Reduce screen design and save time by using alarm blocks that display alarms based on the device or level of importance on one alarm indicator.



Verify Performance and Operation Without Hardware

GP-Pro EX HMI Screen and Logic Simulation

A pseudo-environment created on your PC. Prevent errors in operation by allowing confirmation and debugging before transfer.

Screen Operation Check

Confirm screen performance before transfer without connecting to PLC. Check actions performed using the touch panel installed by clicking with the mouse.



Do a screen capture to use for creating specifications.

I/O Operation Check

Confirm current values for addresses allocated to I/O driver terminal in order to control external I/O. Some I/O drivers allow switching between ON/OFF state or change current values.



Controller Address Check

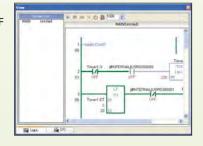
Display and edit the list of present values of virtual connected devices.

Perform Intuitive operation debugging using the screen view or logic view.



Logic Operation Check

Confirm present values and ON/OFF status of symbol variables before transferring the project file.
Minimize time in logic program debugging.



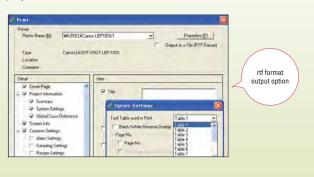
Cross Reference CSV Export

Output the list of used addresses as a CSV file to perform a cross reference check. You can select to output either individual screens or all screens.



Print Out Settings

Select and print required setup information of the project file. Minimize documentation labor.



Security Controls Prevent Unauthorized Access

A variety of security controls are available to allow operators access to select HMI screens while preventing unauthorized access to password protected screens such as recipes and alarm screens.

Define Access and Restrictions per User

Access rights consisting of user names, passwords and their assigned access level are determined for each operator interface.



Security Maintenance

Quickly and easily change passwords for each machine operator. Passwords may be changed or added using a memory card or by FTP!



Delete files after changes to ensure security.

Operator Safety (Security Per Part)

Configure access and authority parameters per part by requiring a certified ID or password for parts that are controlled by different security levels.



Security levels may be set for each part for operator safety. Combined with the animation function, some parts may become inactive or hidden if they require a higher authority level after operator log-in

Project Security

Set passwords for each screen or script to prevent accidental unauthorized access. Use security features to protect intellectual property rights.

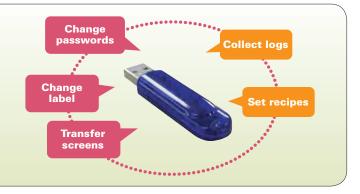


Investment Protection: Protect your data assets even when exporting the system overseas.

No PC on site Required

Use a USB memory stick for daily, weekly or monthly security changes, performing part label changes, transferring screens, setting recipes or collecting log data from the HMI.

Perform secure project updates for OEMs and System Integrators



Security Controls Prevent Unauthorized Access

EZ Fingerprint Recognition Unit

Fingerprint recognition unit easily connected with HMI via USB.







- Restrict user access further without use of passwords which could be written down or shared.
- 22mm mounting with USB connection.
- Easy setup No need for special programing, easy setup by GP-Pro EX

Monitor Operations Virtually From Anywhere

Pro-face Remote HMI

Monitor and Control Pro-face HMI screen on a smart phone or a tablet.

Efficient

See machine information anywhere without going to the spot, saving you travel time.

Effective

Able to monitor status of multiple machines by one Pro-face Remote HMI.

Easy Set Up

GP-Pro EX software facilitates easy set up and activation of Pro-face HMI.

Interactive

Besides monitoring, you can control the machine from your tablet or smart phone (data input, send work instruction, etc.).



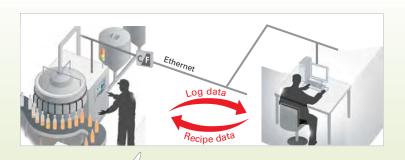
On-site HMI in Your Hand!





Transfer Tool Field Maintenance and backup with data protection

FREE Transfer tool allows application upgrades to the operator interface in the field without the need for development software. Ideal maintenance solution for OEMs or system integrators looking for an easy field upgrade solution.



By accessing the CF/SDcard/USB storage of the Pro-face HMI main unit using file transfer, you can read or write log and recipe data.

Easy Machine Maintenance and data log retrieval

Choose Various Interface Options to transfer Information



Easy Low Cost Field Maintenance

Use Transfer Tool on site to:

- Update and backup HMI and logic projects
- Download recipe, video, security and language updates to the compact flash card.
- Compare differences between two HMI applications
- Upload log data from the HMI CF Card.
- Maintain information transfer flexibility via:
 Ethernet / USB Port / Serial Port

Application and Benefits

HMI Application verification (revision control)

 Check for application tampering by comparing HMI application project on unit to a known good project.

Intellectual Rights Protection

 Allow others to perform field updates without the ability to access proprietary project information.

Access Compact Flash Data Storage Device

 Retrieve or store log, recipe, other files etc. using any of the three transfer methods.

Using Transfer Tool (Tools Required)

Operator Interface: AGP3000 or GP4000 Series HMI
Download Cable: USB, Serial or Ethernet Connection
File Storage (Optional): CF/SD Card or USB Memory (> 128 MB)
Transfer Tool: Windows-based PC/AT, install stand alone

Network Connection; Based on transfer method (USB, Serial, Ethernet)

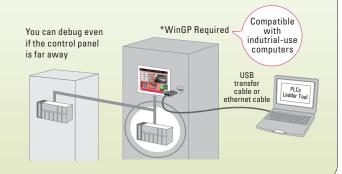


Pass Through Programming and Monitoring PLC via Operator Interface

FREE Pass Through tool allows you to program the PLC through the operator interface. PLC access is provided through the Ethernet connection on the HMI. Ideal for quick programming changes to optimize overall system performance.

Pass Through

Easily view and debug ladder logic using the operator interface. Connect to controller without opening the panel via a USB front-mounted cable.



PLC Access via your Operator Interface

Use Pass Through to:

- Program or monitor PLC via HMI.
- Eliminate need to connect a PLC Programming cable.
- Take advantage of existing HMI to PLC communication cable connection.
- Access PLC remotely through HMI's Ethernet or USB port.
- Save travel expenses by performing remote maintenance.

Application and Benefits

On site PLC Diagnostics

 No need for PLC programming cable. Use the USB or Ethernet port on the HMI to obtain communication access to the PLC.

Off site Remote PLC Diagnostics

 Use the Ethernet port on HMI to gain PLC access remotely. Even if PLC normally programs through a serial connection.

Update PLC without disruption

• Diagnose and perform PLC maintenance without disrupting communications to the HMI.

Using Pass Through (Tools Required)

Note: Not all PLCs are supported- see documentation

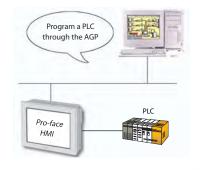
Operator Interface: AGP3000 or GP4000 Series HMI with Ethernet

Development Software: GP-Pro EX V3.1 or later

Device/PLC Connection: Serial or Ethernet (see supported driver list)

Network Connection: Dependent on supported driver

(Ethernet or Serial)



Memory Loader Field Maintenance and Backup with Data Protection

FREE Memory Loader tool stores project, drivers or images to upload to one or multiple HMIs using a simple USB or Compact flash storage device. Eliminates the need for HMI development software and a laptop on site.



No PC required for Factory or remote site updates!



Simple and Safe Field Maintenance

Use Memory Loader to:

- Prepare a CF or USB image to load on an HMI.
 - Includes Project, Driver and System updates
 - Multiple Projects can be stored simultaneously
- Download project to HMI without using a PC.
- Back-up existing project in HMI before updating.
- Offer a simple update procedure that can be performed by the machine operator.

Application and Benefits

Remote Field Upgrades

 E-mail edited project file to site location for technician to store on USB stick and upload to operator interface.

Project Backup and Recovery

 Backup existing HMI application before updating to restore HMI to previous state if necessary.

Update Multiple HMIs (portability)

• Use CF card or USB memory stick to update all HMIs using the same application.

Using Memory Loader (Tools Required)

Operator Interface: AGP3000 or GP4000 Series HMI

File Storage: CF/SD Card or USB Memory (> 128 MB)

Development Software: GP-Pro EX V3.1 or later

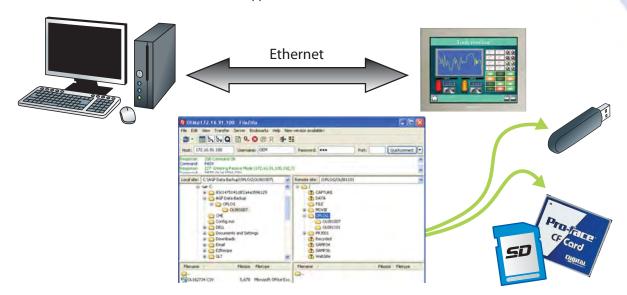
(needed only to edit project files before

transferring to storage device.)



FTP Server Upload and Download Data Files to the Operator Interface Data over the Internet

FREE FTP Server provides OEMs and System Integrators the ability to access an operator interface to perform remote routine maintenance or online customer support without the need to travel on-site.



Cut Costs and Add Service Value

Use any FTP Client to:

- Access the Operator interface via IP Address.
- Upload Diagnostics Data:
 Alarms, Operation Log, Event Recorder Video
- Perform Remote Maintenance:
 - 1. Upload and Download Operational Data
 - 2. Training Videos, Recipe Data, Security Settings
 - 3. Multi Language Updates

Application and Benefits

Reduce travel cost

 Acquire alarm logs, event recorder, video captures and data files over the internet.

Save Travel Time

 Perform remote diagnostics and phone support in your office, eliminating on-site travel time.

Easy Field Maintenance

 Update recipe data, security settings and language settings without on-site plant floor visit.

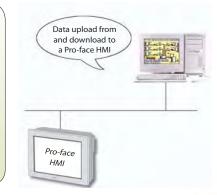
Using FTP Server (Tools Required)

Operator Interface: AGP3000 or GP4000 Series HMI with Ethernet

File Storage: CF/SD Card or USB Memory (> 128 MB)

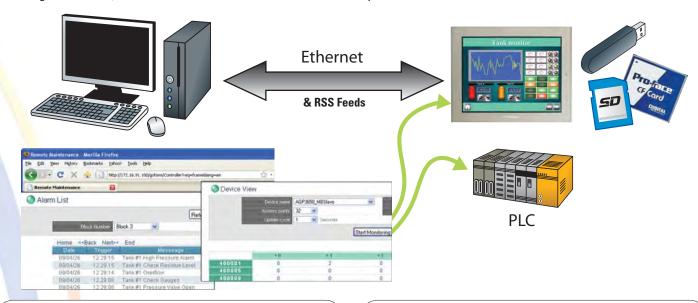
Development Software: GP-Pro EX V3.1 or later

FTP Client: Filezilla, Internet Explorer, or similar Network Connection: Open access to HMI static IP address



WebServer RSS Feed Alarm Monitoring and Launch GP-Viewer with Browser

FREE WebServer provides OEMs , System Integrators and End-users to automatically receive alarm notifications through RSS feeds, or launch GP-Viewer to monitor the machine operator activities.



Monitor Machine + Process Performance

Use standard web browser to:

- Access the Operator interface via IP Address
- View Active and Historical Alarms
- Read and Write data to Operator Interface
- Read and write data to PLC memory
- Launch additional HMI software tools
 - 1. Launch GP-Viewer to monitor and train machine operator remotely
 - 2. Launch FTP Server to perform web-based maintenance updates

Application and Benefits

Remote Alarm Monitoring

 Automatic notification via RSS feeds Review and prioritize daily alarms to reduced maintenance costs.

Update PLC Data

 Optimize machine performance using web-based monitoring and updating PLC data values.

Update Operator Interface Data

 Reduce individual operator alarm inspections to increase maintenance efficiency.

Using WebServer (Tools Required)

Operator Interface: AGP3000 or GP4000 Series HMI with Ethernet

Web Content Storage: CF/SD Card or USB Memory (> 128 MB)
RSS Reader: Optional, any 3rd party RSS reader

Development Software: GP-Pro EX V3.1 or later

Web Browser: Internet Explorer, Mozilla, Firefox or Similar

Network Connection: Open access to HMI static IP address



Remote PC Access (RPA) The Full Power of a PC Available to your HMI over the Internet

Remote PC Access (RPA) brings full PC functionality to a dedicated operator interface. Open any document such as PDFs, CAD, JPEGs, etc. or hot link to the machine builder's web site from the display screen of the operator interface.

Remote PC Access

Interact with a remote server PC using the operator interface. The Operator Interface shows the same PC server display on its screen.



Only for Ethernet TFT HMIs with VGA graphics and higher

Display Remote PC Screen on HMI Screen

Use RPA to launch and control any PC program:

- Access remote server PC using HMI via Ethernet.
- UltraVNC server required to be running on PC.
- View and Control the PC server remotely.
- See the remote PC screen on the Operator Interface.
- HMI touch screen and keypad provide full interaction with remote PC software.

Internet, E-mail, Manual Access, etc.

Open any office tools such as outlook, Excel, or Word to write notes or obtain latest machine information.



Application and Benefits

Updating Machine Documentation

- Store machine manuals in one location on a remote PC server.
- All HMIs with RPA will automatically see the latest version posted.

Design Internet Hot Links to OEM Site

 Create HMI buttons that open up OEM web site to get latest machine updates.

Review Work Process and Reports

 Keep current with production changes, supply demand, and productivity reports.

Using Remote PC Access (Tools Required)

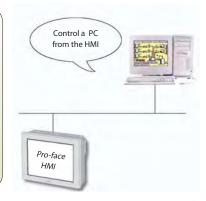
Operator Interface: AGP3000 or GP4000 Series HMI with Ethernet

Development Software: GP-Pro EX V3.1 or later

RPA License: Requires one license for each HMI
Remote PC: Requires PC running UltraVNC Server

(included free on GP-Pro EX CD)

Network Connection: Open access to HMI static IP address



WinGP Maximizing Your Industrial Computer Potential

WinGP is runtime software for GP-Pro EX HMI created applications. Pro-face dedicated operator interfaces are quickly installed on an industrial touch screen computer creating an On-Demand Windows-based HMI.



Re-use HMI applications

Run a GP-Pro EX HMI application and communicate with various controllers using a Pro-face industrial computer.

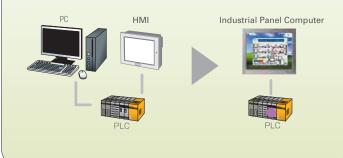
Pro-face Industrial Computers

UL Class 1 Div 2 certified industrial computers with built-in health monitoring to maximize process uptime. A wide variety of solid state drives, fanless, RAID and other options are available.



Reduce System Space

Conventional systems that combine a PC, a graphic operator interface and a PLC can be simplified to an industrial PC and a PLC. Reduced components reduces maintenance time and costs.



Re-use Existing HMI Applications

Stay flexible with your choice of technology.



3rd Party Application Flexibility

Communicate to WinGP runtime using a flexible link to user applications.

Link to User Database using the Handling API

Enables a user application to receive WinGP status and to change its setup. (Provided as the DLL file).

Control from User Application using Device Address API

Enables a user application to read/write devices on controllers connected with WinGP. (Provided as the DLL file).

Supported Languages

• Visual C++ • Visual Basic • C# • VB.NET • VBA

GP-Pro EX Supported Logic Instruction List

Basic Instruction				
■ Bit Basic				
Normally Open	N0	\dashv \vdash		
Normally Closed	NC			
Out	OUT	-		
Negative Out	OUTN	-0-		
Set	SET	-S-		
Reset	RST	-®-		
■ Pulse Basio				
Positive Transition	PT	⊣↑⊢		
Negative Transition	NT			
■ Program C	ontrol			
Jump	JMP <*P>	-> LABEL NAME		
Jump to Subroutine	JSR <*P>	-> SUBROUTINE NAME <-		
Return	RET	RET		
Repeat number of times (For)	FOR	FOR S1		
Repeat number of times (NEXT)	NEXT	- NEXT		
Inverse	INV	-/-		
Exit	EXIT	EXIT		
Power Bar Control	PBC	PBC S1 D1		
Power Bar Reset	PBR	PBR S1		
Logic Wait Instruction	LWA	LWA S1		

Timer Instruction			
On Delay Timer	TON	TON (ms) Q PT ET	
Off Delay Timer	TOF	TOF (ms) Q PT ET	
Pulse Timer	TP	TP (ms) Q PT ET	
Accumulate On Delay Timer	TONA	TONA (ma) Q R PT ET	
Accumulate Off Delay Timer	TOFA	TOFA (ma) Q — R PT ET	

Counter Instruction		
Up Counter	CTU <*P>	CTU Q R PV CV
Down Counter	CTD <*P>	CTD Q R PV CV
Up/Down Counter	CTUD <*P>	UP QU R QD PV CV

R/W Instruction			
■ Time Read	/Write		
Time Read	JRD <*P>	JRD D1	
Time Set	JSET <*P>	JSET S1 D1	
■ Date Read	Write		
Date Read	NRD <*P>	NRD D1	
Date Set	NSET <*P>	NSET S1 D1	

Operati	on Ins	struction
■ Arithmetic		
Add	ADD <*P>	S1 D1 S2
Subtract	SUB <*P>	SUB S1 D1 S2
Multiplication	MUL <*P>	MUL S1 D1 S2
Division	DIV <*P>	S1 D1 S2
Modulation	MOD <*P>	MOD S1 D1 S2
Increment	INC <*P>	INC D1
Decrement	DEC <*P>	DEC D1
■ Time Opera	ation	
Time Addition	JADD <*P>	S1 D1 S2
Time Subtraction	JSUB <*P>	S1 D1 S2
■ Logical Op	eration	
Logical AND	AND <*P>	S1 D1 S2
Logical OR	OR <*P>	OR S1 D1 S2
Logical XOR	XOR <*P>	S1 D1 S2
Logical NOT	NOT <*P>	NOT S1 S2
■Transfer		
Move (Copy)	MOV <*P>	MOV S1 D1
Block Move (Block Copy)	BLMV <*P>	S1 D1 S2
Fill Move	FLMV <*P>	S1 D1 S2
Exchange	XCH <*P>	D1 D2
■ Shift		
Shift Left	SHL <*P>	SHL S1 D1 S2
Shift Right	SHR <*P>	SHR S1 D1 S2
Arithmetic Shift Left	SAL <*P>	SAL S1 D1 S2
Arithmetic Shift Right	SAR <*P>	SAR S1 D1 S2

	<*P>	S2
Logical NOT	NOT <*P>	NOT S1 S2
Transfer		
Move (Copy)	MOV <*P>	MOV S1 D1
Block Move (Block Copy)	BLMV <*P>	S1 D1 S2
Fill Move	FLMV <*P>	S1 D1 S2
Exchange	XCH <*P>	D1 D2
Shift		
Shift Left	SHL <*P>	SHL S1 D1 S2
Shift Right	SHR <*P>	SHR S1 D1 S2
Arithmetic Shift Left	SAL <*P>	SAL S1 D1 S2
Arithmetic Shift Right	SAR <*P>	SAR S1 D1 S2
Rotation		
Rotate Left	ROL <*P>	ROL S1 D1 S2
Rotate Right	ROR <*P>	81 D1 S2
Rotate Left with Carry Over	RCL <*P>	RCL S1 D1 S2
Rotate Right with Carry Over	RCR <*P>	RCR S1 D1 S2
Function	on Ins	truction
■ Calculate F	unction	
Sum	SUM <*P>	SUMS1 D1 S2

Function Instruction			
■ Calculate F	unction	ı	
Sum	SUM <*P>	SUM S1 D1 S2	
Average	AVE <*P>	S1 D1 S2	
Square Root	SQRT <*P>	SQRT S1 D1	

Function Instruction			
■ Calculate Function			
Bit Conut	BCNT <*P>	BCNT S1 D1	
PID	PID	PID S1 D1 S2 S3	
■ Trigonometric Function			

		S3	
■ Trigonometric Function			
Sine	SIN <*P>	SIN S1 D1	
Cosine	COS <*P>	COS S1 D1	
Tangent	TAN <*P>	TAN S1 D1	
Arc Sine	ASIN <*P>	ASIN S1 D1	
Arc Cosine	ACOS <*P>	ACOS S1 D1	
Arc Tangent	ATAN <*P>	S1 D1	
Cotangent	COT <*P>	S1 D1	
The other Errection			

■ The other Function			
Exponential	EXP <*P>	EXP S1 D1	
Logarithm	LN <*P>	S1 D1	
Log Base 10	LG10 <*P>	LG10 S1 D1	

Compare Instruction			
■ Arithmetic	Compa	re	
Equal	EΩ	EQ (=) S1 S2	
Greater Than	GT	GT (>) S1 S2	
Greater Than Or Equal To	GE	GE (>=) S1 S2	
Less Than	LT	LT (<) S1 S2	
Less Than Or Equal To	LE	LE (<=) S1 S2	
Not Equal	NE	NE (⇔) S1 S2	

■ Time Compare				
Time Compare Equal	JEQ	JEQ (=) S1 S2		
Time Compare Greater Than	JGT	JGT (>) S1 S2		
Time Compare Greater Than Or Equal To	JGE	JGE (>=) S1 S2		
Time Compare Less Than	JLT	JLT (<) S1 S2		
Time Compare Less Than Or Equal To	JLE	JLE (<=) S1 S2		
Time Compare Not Equal	JNE	JNE (⇔) S1 S2		
■ Date Compare				

■ Date Comp	are	
Date Compare Equal	NEQ	NEQ (=) S1 S2
Date Compare Greater Than	NGT	NGT (>) S1 S2
Date Compare Greater Than Or Equal To	NGE	NGE (>=) S1 S2
Date Compare Less Than	NLT	NLT (<) S1 S2

	Compa	ire Ins	truction	
■ D	■ Date Compare			

S1 D1	Less Than Or Equal To	NLE	(<==) S1 S2
PID S1 D1 S2 S3	Date Compare Not Equal	NNE	NNE (⇔) S1 S2
ction			
SIN	Conve	rt Inst	ruction
	Conve ■ Data Conv		ruction
SIN			ruction

BCD Convert	BCD <*P>	BCD S1 D1
BIN Convert	BIN <*P>	S1 D1
Encode	ENCO <*P>	ENCO S1 D1
Decode	DECO <*P>	S1 D1
Convert to Radian	RAD <*P>	RAD S1 D1
Degree Convert	DEG <*P>	DEG S1 D1
Scale	SCL <*P>	SCL S1 D1
■ Type Conv	ert	
C		

Convert Integer to Float	12F <*P>	12F S1 D1	
Convert Integer to Real	I2R <*P>	12R S1 D1	
Convert Float to Integer	F2I <*P>	F2i S1 D1	
Convert Float to Real	F2R <*P>	F2R S1 D1	
Convert Real to Integer	R2I <*P>	R2I S1 D1	
Convert Real to Float	R2F <*P>	R2F S1 D1	
Convert Seconds	H2S <*P>	H2S S1 D1	
Convert Seconds to Time	S2H <*P>	S2H S1 D1	
* Instructions with < *P > correspond to			

*	Instructions with < *P>positive transition instruction transition). By adding P to instruction notation (LMP, instruction as a positive tra (e.g., JMPP, JSRP, etc.).	ons (differential the end of each etc.), you can use the

Instruction	Instructions for I/O driver				
■ STD driver					
Instructions for making changes to pulse output parameters	PLSX	PLSX (CH1) D1			
Instructions for making changes to acceleration/ deceleration pulse	PLSY	- (chi)			
Instructions for retrieving pulse output parameters	PLSG	PLSG (CH1) D1			
Instructions for starting pulse output	PLS	PLS (CH1) D1			
Instructions for stopping pulse output	PLSQ	PLSO (CH1) D1			
Instructions for making changes to PWM output parameters	PWMX	- CH1) D1			
Instructions for retrieving PWM output parameters	PWMG	- CHI) OI			
Instructions for starting PWM output	PWM	- CHI) OI			
Instructions for stopping PWM output	PWMΩ	- PWMCI (CH1) D1			
Instructions for making changes to high-speed counter parameters	нѕсх	- HSCX (CH1) D1			
Instructions for retrieving high-speed counter parameters	HSCG	- HSCG (CH1) D1			
Instructions for starting high-speed counter	HSC	- HSC (CH1) D1			
Instructions for stopping high-speed counter	нѕсо	- (cH1) D1			
Instructions for verifying "pulse catch" input	PCH	- (CH1) D1			
Instructions for clearing "pulse catch" input	РСНΩ	PCHQ (cH1) D1			

■ CAN driver			
SD0 reading	SDOR	SDOR (CAN) S1 D1 S2 S3	
SD0 writing	SDOW	SDOW - (CAN) - S1 D1 S2 S3	
Master check	DGMT	DOMT (CAN) D1 D2	
Slave check	DGSL	DGSL (CAN) S1 D1	



Addresses that are automatically allocated to the devices within GP-Pro EX				
Type Address (Addressing Method)				
	X0000 ~ X0511			
Bit variable	Y0000 ~ Y0511			
	M0000 ~ M7999			
	10000 ~ 10127			
Integer variable	Q0000 ~ Q0127			
	D0000 ~ D7999			
Float variable	F0000 ~ F0127			
Real variable	R0000 ~ R0127			
Timer variable	T0000 ~ T0511			
Counter variable	C0000 ~ C0511			
Date variable	N0000 ~ N0063			
Time variable	J0000 ~ J0063			
PID variable	U0000 ~ U0007			

No programming

1. Select data

required



Pro-Server EX Features

Data management software



Enhanced data collection and connectivity software

✓ Applications

- · Share data with production and maintenance groups
- · Share HMI data with another HMI
 - Peer-to-peer
- Write/log data to/from PLC
- Send instant e-mail alerts
- Collect and write data to Excel®, CSV or databases

✓ Collect and manage data

- Up-to-the-minute production data
- Upstream status information
- Necessary raw material requirements
- Snapshot images of machine faults or instructions

✓ Connectivity Support

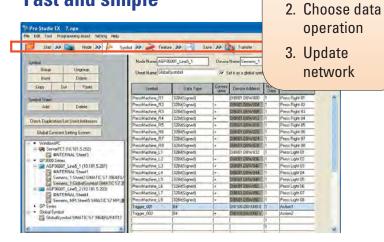
- OPC DA server
- DDE
- DLL
- API (VB, VB.NET, VC, C#.NET)
- Access[™]/ Excel[®]
- ODBC, SQL, Oracle
- E-mail via SMTP
- MES actions

Collect and view up-to-the-minute, accurate data to optimize your productivity.

Information where you want it, when you want it

- Data collection/management
- Reporting
- Data sharing
- Remote IPC health monitoring
- Enterprise integration
- Save thousands of dollars per year

Fast and simple

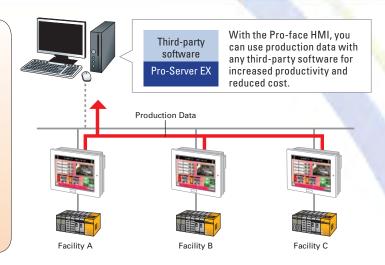


- Fill in the blank data configuration, no programming!
- Built-in templates save you time and get you started quickly
- Share data with Windows®-based applications
- Automatically puts DDE scripts into clipboard, ready to paste directly into Excel®

Pro-Server EX Features

Data collection/management

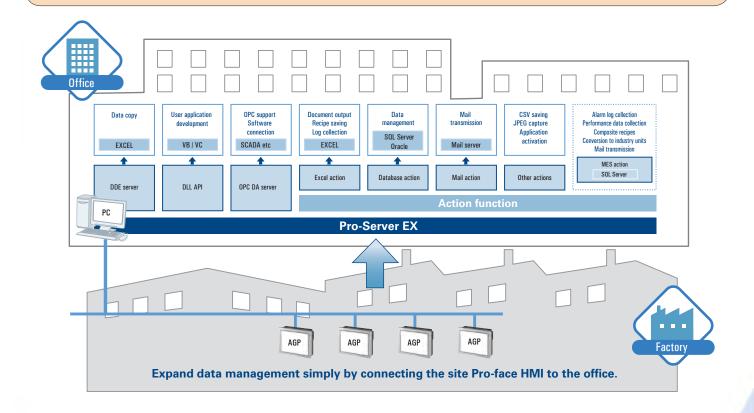
- · Collect data on a remote server
- In plant or across the Internet
- Send data to another department or around the world in real-time
- Update recipes/production parameters remotely
- No more clipboard collection of data



Enterprise integration

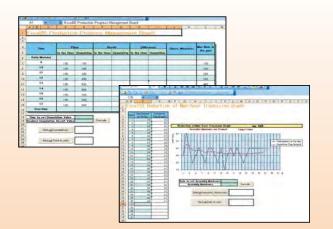
- Connect to existing enterprise system
- Enhance existing designs
- Use common communication methods

✓	OPC DA server	✓	DDE
✓	API (VB, VB.NET, VC, C#.NET)	✓	DLL
✓	Access TM /Excel®	✓	ODBC, SQL, Oracle
✓	Image management	✓	PC health
✓	E-mail via SMTP	✓	MES



Reporting

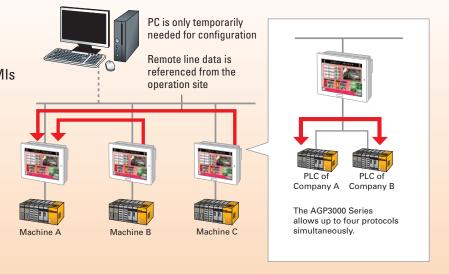
- Includes 29 easy-to-use Excel® report templates
 - ✓ Daily / monthly / yearly reports
 - ✓ Shift downtime
 - ✓ Failure data rates
 - ✓ Preparation time graphs
 - ✓ Task planning
 - ✓ Manage work progress



Data sharing — Interdevice communication

Use Pro-Server to set up inter-device communication between Pro-face HMIs allowing data to be shared with multi-vendor devices regardless of the type of data or control device.

- Enable peer-to-peer data sharing
- Act as a gateway between HMIs or different brand PLCs
- Send build data directly from one HMI to the next



Across the plant or across the world,
Pro-face data management solutions will work for you!

Pro-Server



GP-Viewer EX

GP Viewer software is an ideal tool to service and support multiple locations from the main office. GP- Viewer allows monitoring of machine operators from a remote PC. See exactly what they see displayed on the HMI screen. Not only monitor, but have the ability to take control of operations for training and diagnostic purposes.

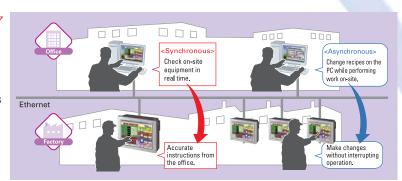






Lock Out Feature Prevents Operational Errors

Prevent operational errors by the operator by locking operations other than for "in us" indicator by remote PC.



Monitor and Train Machine Operators

Walk operators through the exact procedures to operate the machine safely. Provide as an ongoing service and support function for OEMs and Integrators.

GP-Viewer Functionality

Use RPA to launch and control any PC program:

- Capability as if you were in front of the HMI.
- Update HMI Security Settings for Safety and unauthorized access.
- Upload Diagnostic data such as alarms, operation log, event recorder video.
- Analyze logged data and make adjustments.
- Upload and download operational data.
- Training Videos, Recipe Data, and Multilanguage updates.

Machine Diagnostic Servicing

GP-Viewer allows you to check diagnostic data on other screens without interfering with the operator. Make updates to optimize quality and performance.

Application and Benefits

Monitor Machine Operators

 View Operators while they are working to ensure procedures are being followed.

Take Control of HMI from Remote Location

- Service the machine without the expense of traveling to the site location.
- Control 4 HMIs simultaneously from your PC.

View Protected Diagnostic Screens

 Gather maintenance data without interrupting the machine operator.

Using GP Viewer (Tools Required)

Operator Interface: AGP3000 or GP4000 Series HMI with Ethernet

Development Software: GP-Pro EX V3.1 or later

GP-Viewer EX License: Requires a license installed on each HMI

GP-Viewer EX Software: Found on GP-Pro EX CD.

(Runs on Windows-based PC/AT computer)

Network Connection: Open access to HMI static IP address





Camera-Viewer EX

Camera Viewer software is a valuable software program which allows you to view streaming video from a remote PC. See exactly what is happening at the operation site. Display, record, and playback. Ethernet connection makes it easy and affordable to monitor and service from multiple support locations.

Remote Camera Monitoring

Camera-Viewer

New hardware purchases are unnecessary when Camera Viewer EX leverages your existing control architecture for streaming video. This translates into significant cost savings for those wishing to remotely access, control, and view live video.

Increase Security and Safety

Live video feed allows you to monitor the industrial site and record who accessed the area. Bring the image from hard to reach, or dangerous areas safely back to your home offices.

Display image in Camera-Viewer EX Receive Ethernet Connect Video Camera capturing images as a video file

Remote Diagnostics

Reduce travel cost and machine shutdown time with Camera Viewer EX. From a remote location, instantly watch video of disturbances and provide diagnostic servicing of equipment.

Camera-Viewer Functionality

Remote Monitoring

View live streaming video from a multimedia HMI on your PC.

Record & Playback

Record live video on your HMI, playback the recordings on your remote PC or the HMI itself.

Search for files by date & time recorded.

Application and Benefits

Monitor Machine Site

- Another way to view operations while away to ensure policies are followed.
- Walk operators through instructions.

Safety and Security

- Diagnose issues quickly through recordings.
- View hard to reach or dangerous areas or monitor access to machines or locations.

No new hardware purchases necessary!

Using Camera Viewer (Tools Required)

Operator Interface: AGP3000 or GP4000 Series HMI

Development Software: GP-Pro EX V3.1 or later

GP-Viewer EX License: Requires a license installed on each HMI

GP-Viewer EX Software: Found on GP-Pro EX CD.

(Runs on Windows-based PC/AT computer)

Network Connection: Open access to HMI static IP address



Third-Party Driver Support

PLC Drivers

Rockwell Automation

DH-485

EtherNet/IP:

SLC500/PLC5/MicroLogix

ControlLogix/CompactLogix (Native-Tag base)

DeviceNet Slave

Siemens AG

SIMATIC S7 3964(R)/RK512

SIMATIC S7 MPI Direct

SIMATIC S7 Ethernet

SIMATIC S5 CPU Direct

SIMATIC S5 3964(R)

PROFIBUS DP Slave

GE Fanuc Automation

Series 90 Ethernet (SRTP)

Series 90-30/70 SNP

Series 90-30/70 SNP-X

Schneider Electric

Modbus Master (SIO or TCP)

Modbus Slave (SIO or TCP)

Modbus Plus

Uni-Telway

Modbus IDA

General Modbus RTU Master (SIO) General Modbus TCP Master

(Ethernet)

Control Technologies Corp. **Emerson Process Control**

FANUC

FATEK Automation Corporation

Fuji Electric Corp.

Hitachi Ind. Equipment Systems

Hyundai Heavy Industries

KEYENCE Corp.

Koyo Electronics Co. Ltd.

LS Industrial Systems

Matsushita Electric Works

Meidensha

Mitsubishi Electric Corp.

Mitsubishi Heavy Industries

M-System

OMRON Corp.

Panasonic Electric Works

Saia-Burgess Controls

Sanmei Electronics Co., Ltd.

Sharp MS Corp.

Toshiba

Toshiba Machine

Toyoda Machine Works

Yamatake

YASKAWA Electric Corp.

YOKOGAWA Electric Corp.

Temperature Controllers

CHINO Corporation Fuji Electric Systems Co., Ltd. **OMRON** Corp.

RKC Instrument

Shinko Technos Co. Ltd. Yamatake Corp.

Yokogowa M&C

Fieldbus Module

CAN in Automation **CC-Link Partner Association** ODVA

PROFIBUS International

Vision Systems

Banner Engineering Corp. **COGNEX**

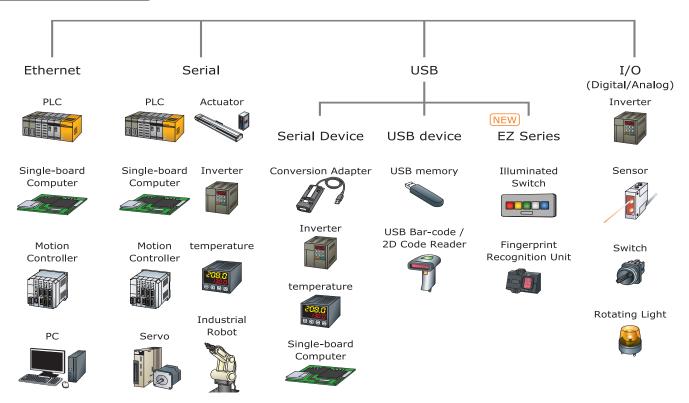
Robot Controllers

GE Fanuc Automation Hyundai Heavy Industries IAI Corporation

Inverters

Fuji Electric Corp. Hitachi IES Co., Ltd. Mitsubishi Electric Corporation YASKAWA Electric Corp.

We support Barcode scanners, 2-D Readers, and Printers from companies such as Aimex Corp., OPT Electronics, Denso Co., HHP, Cognex, Symbol, Epson, NEC, and more!



The World Leader in Third-Party Driver Support

Operating Environment

• (GP-Pro EX		
os		Windows® XP (Home, Professional), Windows Vista® (Ultimate, Home Premium & Basic Business), Windows® 7 32-bit/64-bit (Ultimate, Home Premium & Basic, Business) *For the installation of this product, administrator rights are required.	
СРИ		Windows Vista®: Pentium® 4 (1GHz or greater) Other than Windows Vista®: Pentium® III 800MHz or greater (Pentium® 4 1.3GHz or greater recommended	
Resolution		SVGA 800 X 600 or better (256 colors or greater required)	
Memory		Windows Vista® 1GB or greater (2GB or greater recommended) Other than Windows Vista® 512MB or greater (1GB or greater recommended)	
Ha	rd Disk Space	720MB or greater *Free space necessary for installation	
Language	Software Menu	English/Japanese	
	Languages that Hardware can Display	English/Japanese/Korean/Chinese (simplified/traditional)/Cyrillic/Thai *For languages other than English/Japanese, FEPs and fonts for these languages should be added.	
FEI	P for Languages	Those supported by OS described above.	
		.NET Framework Ver. 2.0 * On a PC without .NET Framework Ver. 2.0, this product is automatically installed.	

● Transfer Tool (Only necessary for Transfer Tool installation)

os	Windows® 98 (Second Edition or later), Windows® Me, Windows Vista® (Ultimate, Home Premium, Home Basic, Business), Windows® 7 32-bit(64-bit (Ultimate, Home Premium & Basic, Business) *For the installation of this product, administrator rights are required.	
CPU Windows Vista : Pentium® 4 1GHz or greater recommended Other than Windows Vista® : Pentium® II 266MHz or greater recommended		
Memory	128MB or greater (512MB or greater recommended)	
Hard Disk Space	135MB or greater *Free space necessary for installation	
Other Mouse (absolutely necessary), CD-ROM drive (necessary only for software instal and printer (supported by the OS above)		

Mouse (absolutely necessary), CD-ROM drive (necessary only for software installation) and printer (supported by the OS above) $\frac{1}{2}$

Only necessary for online user registration and online update service

Pass-Through

os	Windows® XP (Service Pack 2 or greater), Windows Vista® (Ultimate, Home Premium & Basic, Business), Windows® 7 32-bit/64-bit (Ultimate, Home Premium & Basic, Business)

Web Server

os	Windows® XP 32-bit (Service Pack 2), Windows Vista® (Ultimate, Home Premium, HomeBasic, Business, Enterprise) Windows® Server2003 (Service Pack 2) Windows® 7 32-bit/64-bit (Ultimate, Home Premium & Basic, Business)	
Supported Browser	Microsoft® Internet Explorer Ver.6.0 or 7.0	
Screen Resolution	XGA 1024 X 768 or greater	

Pro-Server EX

	
os	Windows® XP (Home Edition,Professional). Windows® Server 2003 (For the installation of this product, administrator rights are required.), Windows Vista® (Ultimate, Home Premium & Basic,Business), Windows® 7 32-bit/64-bit (Ultimate, Home Premium & Basic, Business)
CPU	Pentium® III 500MHz or greater (Pentium® III 800MHz or greater recommended)
Resolution SVGA 800 X 600 or greater (256 colors or greater required), only 96dpi fon	
Memory	128MB or greater (256MB or greater recommended)
Hard Disk Space	1GB or greater (2GB or greater recommended) *Free space necessary for installation
Language Software Menu	English/Japanese
FEP for Languages	Those supported by OS described above.
	Microsoft® Excel 2000~2007 (for setting the action function)
Other Software	Microsoft® Access 2000~2007 (for setting the action function)
Other Software	Microsoft® Internet Explorer Ver.5.0 or later (for setting the action function)
	.NET Framework Ver.1.1 (Service Pack 1)
Printer	Any printer if it is supported by the OS
Network Adapter	10BASE-T, 100BASE-TX
Network Configuration TCP/IP protocol (Configure from "Control Panel" in Windows®)	

GP-Viewer EX

Windows® XP (Service Pack 2), Windows Vista® (Ultimate, Home Premium, HomeBasic, Business, Enterprise) Windows® 52-brive Pack 2), Windows® 732-bit/64-bit (Ultimate, Home Premium & Basic, Business)

Camera-Viewer EX

Windows® XP (All editions, S2P or later, 32 bit)
Windows Vista® (All editions, S2P) or later, 32 bit)
Windows® 7 (All editions, 32 bit)
Windows® 7 (All editions, 32 bit)
Windows® Server 2003 (Standard or Enterprise Edition, SP1 or later, 32 bit
Windows® Server 2003 R2 (Standard or Enterprise Edition, SP1 or later, 32 bit
Supported OS languages are Japanese, English, Chinese (Simplified),
Chinese (Traditional), and Korean

WinGP GP-Pro EX Runtime for Pro-face Industrial PCs

os	Windows® XP Professional, Windows® XP Embedded Windows® 7 32-bit/64-bit (Ultimate, Home Premium & Basic, Business)
Memory	256MB or greater (512MB or greater recommended)

● WinGP GP-Pro EX Runtime for 3rd party Industrial PCs

os	Windows® XP (Home Edition, Professional), Windows Vista® (Ultimate, Home Premium, & Basic, Business, Enterprise) 32bit, Windows® 7 32-bit/64-bit (all editions)	
CPU Pentium® M 1GHz or greater recommended		
Display Resolution	SVGA 800×600 or better	
Memory	Windows Vista®: 1GB or greater (2GB or greater recommended) Other than Windows Vista®: 512MB or greater (1GB or greater recommended)	
Hard Disk Space	200MB or greater	

WinGP allows the same GP-Pro EX application to run on an industrial PC. Makes PC act as an On-Demand Operator Interface.



● Remote PC Access (RPA)

os	Visit http://www.uvnc.com/
Other	GP-Pro EX (Ver. 2.0 or later) , RPA Keycode (EX-RPA (Sold separately)), Ultra VNC Ver. 1.0.2 should be installed on the PCs on the server, LAN cable, HUB (Commercially available). * Connect one server to one GP.

● Movie Converter (EX-MOVCON-LICENSE)

OS Windows® 2000 (Service Pack 4 or later), Windows® XP (Home Edition, Professional (Service Pack 2 or later))	
CPU Pentium® III 1GHz or greater recommended	
Memory 512MB or greater	
Hard Disk Space 60MB or greater *Free space necessary for installation	
Other	Mouse (absolutely necessary), CD-ROM drive (necessary only for software installation) Windows® Media Player 9.0, Direct X9.0c

Movie files that can be converted with the movie converter are different depending on the PCs used for conversion. Some codecs are equipped as standard in video/audio players such as Windows[®] Media Player. When installing the movie converter in an environment just after purchasing a PC, you can convert movie files described above to SDX. For movie files that cannot be converted to SDX, you may be able to convert these files by installing their codecs separately (*).

File format (Extension)	Video codec	Audio codec
AVI	Uncompressed (RGB)	Uncompressed (PCM)
AVI	DV-1	DV Audio
WMV	WMV9	WMA9
MPG	MPEG-1	MPEG-1 Layer-2

*In order to convert movie files, first, you need to install the codec of the movie file to be converted on a PC for conversion. We have confirmed the conversion of the following movie files to SDX on a PC with Ulead Vide

File format (Extension)	Video codec	Audio codec
AVI	DV-2	DV Audio
MPG	MPEG-2	MPEG-1 Layer-2
ASF	SD-Video (MPEG-4)	G.726

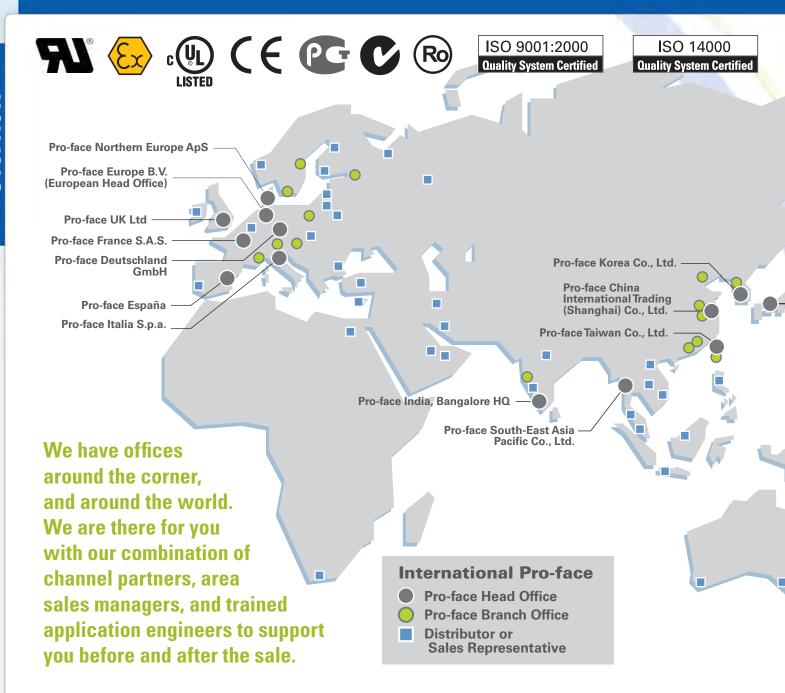
Ulead Video Studio 9 (http://www.ulead.co.jp/product/videostudio9/)
* For installation and use, a license is required. Purchase the license separately.

^{*}Please address inquiries about the site license to a sales representative. *A USB port or Ethernet port is required to transfer screens on a PC.

^{*}A USB port or Ethernet port is required to transfer screens on a PC.

^{*} For installation and use, a license is required. Furchase the license separately

Service & Support



Global Support

One of the great features of Pro-face is that the same level of customer support is available in countries where the product is exported to. Overseas customers can receive high quality support in both telephone inquiries and repair services.

Free Tech Support

Pro-face is committed to delivering excellent technical support whether you are local or abroad. Free, real time solutions. 734-944-0482 support@profaceamerica.com

Repair Services

Pro-face has eliminated loss throughout the entire process by providing free quotes for repair and return delivery. We are constantly re-evaluating our systems to ensure satisfaction for all of our customers.

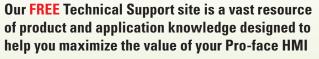
A Global Company...

...with a Local Presence.

Pro-face America, Inc.



Pro-face Japan



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- Manuals
- Sample Downloads
- Driver Downloads
- HMI Learning Center
- Application Notes
- Certifications
- Much, Much More...



HMIsource.com/otasuke

Pro-face Australia Pty Ltd

World Class Training

A variety of technical seminars are offered to help customers in order to get the most out of our Pro-face products. Easy-to-understand textbooks are prepared based on what the customer desires to learn.

Free Technical Website

Our free technical support website has been upgraded with services aimed at reducing development man-hours by offering FAQ, Driver Downloads, Manual downloads, Application Notes, and much more.

Product Manuals

So that even beginners can use products immediately, we aim to make manuals easy-to-understand. We have received high reviews from many customers in a recent survey on satisfaction.

Pro-face America

customercare@profaceamerica.com 1050 Highland Drive, Suite D Ann Arbor, MI 48108 USA 734-477-0600 800-289-9266

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Data Sheets





360° Views

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eCatalog

ProfaceAmerica.com

We are always striving to connect customers to their clients, processes, and people through high quality products, and service and support from around the world.











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