

1 **Welcome to GP-Pro EX**

This manual explains the features of GP-Pro EX, the available functions supported by each display model, and the model environment of the manual.

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1.3	List of Supported Functions by Device.....	1-5

1.1 About GP-Pro EX

GP-Pro EX is screen editing software designed for Digital Electronics Corporation Programmable Displays. You can edit screens with easy operations.

1.1.1 Features

- The convenient features help you reduce drawing steps
Many features enable you to draw and edit easily. For example, Fixing Pin Function ensures smoother editing by fixing object(s) to the background, and Guideline Display helps you adjust the positions of parts you have already placed on the screen.
- A wide variety of attractive image parts and attractive fonts help you create easy-to-understand screens
Many high quality image parts that look similar to real parts are available.
- A clear, easy-to-view display
The high-quality screen offers excellent visibility. With TFT Color LCD : 65536 Colors standard, STN Color LCD : 4096 Colors standard, and with Monochrome LCD : 16 shades of gray. The subtle colors of JPEG and BMP files are clearly displayed on TFT Color models.
- Japanese/English Menu Language
The software menu language can be toggled easily between Japanese and English to accommodate operator preference.
- Multiple languages can be displayed on the screen at once
Available languages include Japanese, ASCII supported languages, Simplified and Traditional Chinese, Korean, Cyrillic Alphabet and Thai. You can also switch languages during operation.
- Multiple device/PLC can be connected
You can communicate with up to four different types of device/PLC. Different device/PLC addresses can be used on the same screen.
- Address Mapping
Address settings on parts can be done easily with a simple drag and drop operation.
- Developing Logic Program
You can create Logic Program to control external devices directly from the display. Variables created for the Logic Program are unified, so you can create a program easily using both logic screens and drawing screens.
- Easy On-line Update
An online update service is available. You can download and update your software and manual to maintain the latest version.

1.1.2 Major features added to GP-Pro EX Version 2.0

Below explains the new features added to GP-Pro EX Version 2.0:

- More models supported
In addition to GP3000 Series units, we now support some types of LT3000 Series and IPC Series units. You can use IPC Series units just like GP units.
- Simulation on your computer display
You can run a simulation on your computer display to make sure it works as you intended before transferring the data to the display.
- Searching parts from Comment, Label/Text
Search and replace parts from among all parts groups.
- Display and operate the computer display on the working display
You can view the computer display on the working display to use the touch-operating RPA Function
- Save data on a USB storage device
Now your data can be stored on an external memory for models that do not support CF Card I/F. You can also transfer projects using a USB storage device.
- Easiest ever selection of part shape and placement
Drag and drop operations enable you to easily select and place image parts available in the Parts Tool Box.
- You can edit the Logic Program during operation
- Check device/PLC data in a list
You can view a list of the current device/PLC values on the display and change the values.

1.2 Model Environment

The explanations of operations and functions in this manual are based on the following system structure.

Your system structure may be different, with different displays and part names, but the main feature remains the same.

Standard Structure

Equipment/Software	Model/Type	Notes
Operating System	Windows® 2000	—
Device/PLC	Mitsubishi Electric Q/QnA Serial Communication Series	—
Display	AGP-3500T	Video/Movie feature uses AGP-3550T as a model system and Logic Program feature uses GP-3500T-FN1M.
Connection Method of the computer and display	USB cable connection	Digital Electronics Corporation USB Transfer Cable (CA3- USBCB-01) - Sold Separately

1.3 List of Supported Functions by Device

1.3.1 GP-3200 Series

○: Supported ●: Limited to certain models ×: Not supported			
GP-3200 Series		AGP-3200T	AGP-3200A
Drawing with 256 Colors*1	☞ page 9-34	○	×
Dark Color Blink	☞ page 5-114	○	×
Simultaneous communication with multiple devices/PLCs	☞ page 7-3	○*2	○*2
LAN Connection	☞ page 7-7	○	○
Modem Transfer	☞ page 33-49	○	○
SIO Transfer (COM Connection)	☞ page 33-62	○	○
CF Card Connect Function for Transfer Tool	☞ page 33-28	×	×
CF Memory Loader Tool	☞ page 33-36	×	×
USB Memory Loader Tool Function	☞ page 33-36	○	○
Backup SRAM's CF Save	☞ page 5-129	×	×
Alarm History (CSV save)	☞ page 19-54	○*3	○*3
Sampling Data (CSV Save)	☞ page 24-20	○*3	○*3
Recipe Transfer (Transfer CSV Data)	☞ page 25-9	○*3	○*3
Edit data in CSV Display	☞ page 25-30	○*3	○*3
Filing Data Save	☞ page 25-42	○*3	○*3
File Manager Feature	☞ page 25-86	○*3	○*3
Display JPEG Files on CF Card	☞ page 9-63	×	×
Screen Capture	☞ page 12-17	×	×
Script (Operate CF File)	☞ page 21-35	×	×
AUX	☞ page 26-10	×	×
Sound Output Feature	☞ page 26-3	×	×
Record/Play Movies	☞ page 27-12	×	×
Video Module	☞ page 27-50	×	×
Logic Programing	☞ page 29-3	×	×
Variables Settings	☞ page 29-39	○*4	○*4
Retain Retentive Variables Function	☞ page 29-75	×	×
I/O Driver Settings	☞ page 31-5	×	×
RPA Function	☞ page 36-2	×	×
Device monitor*5	☞ page A-41	○	○
Ladder monitor*5	☞ page A-41	×	×
Reverse Display	☞ page 5-114	×	○
Change Backlight Color	☞ page 5-156	×	○
Expired backlight detected	☞ page 5-115	×	×
Cross Cursor Display	—	○	○
Portrait Orientation	☞ page 5-79	○	○
User Screen Area 8 MB	☞ page 6-5	×	×

*1 Please refer to the Hardware Manual or “9.5.1 Setting Colors” (page 9-34) for display color.

*2 Up to two Drivers can be connected simultaneously.

*3 Possible using a USB storage device. A CF Card cannot be used.

*4 Variables can be set up to 1000 pts.

*5 Depends on the device/PLC settings.

*6 User screen area is 6 MB.

Figure 1. 3D-SSC Series

[illegible]

*1 Please refer to the Hardware Manual or “9.5.1 Setting Colors” (page 9-34) for display color.

*2 Up to two drivers can be connected simultaneously.

*3 Supported only when connected by USB transfer cable.

*4 Possible using a USB storage device. A CF Card cannot be used.

*5 Screen Captures to FTP server is not available

*6 Variables can be set up to 6000 pts.

*7 Depends on device/PLC settings.

*8 User Screen Area is 6 MB.

1.3.3 GP-3400 Series

○: Supported ●: Limited to certain models ×: Not supported		AGP-3400S	AGP-3400S-D81	AGP-3400T	AGP-3400T-D81	AGP-3400T-FN1M	AGP-3450T
GP-3400 Series							
Drawing with 256 Colors*1	☞ page 9-34	○	○	○	○	○	○
Dark Color Blink	☞ page 5-114	○	○	○	○	○	○
Simultaneous communication with multiple devices/PLCs	☞ page 7-3	○*2	○*2	○*2	○*2	○*2	○*2
LAN Connection	☞ page 7-7	○	○	○	○	○	○
Modem Transfer	☞ page 33-49	○	○	○	○	○	○
SIO Transfer (COM Connection)	☞ page 33-62	○	○	○	○	○	○
CF Card Connect Function for Transfer Tool	☞ page 33-28	○	○	○	○	○	○
CF Memory Loader Tool	☞ page 33-36	○	○	○	○	○	○
USB Memory Loader Tool Function	☞ page 33-36	○	○	○	○	○	○
Backup SRAM's CF Save	☞ page 5-129	○	○	○	○	○	○
Alarm History (CSV save)	☞ page 19-54	○	○	○	○	○	○
Sampling Data (CSV Save)	☞ page 24-20	○	○	○	○	○	○
Recipe Transfer (Transfer CSV Data)	☞ page 25-9	○	○	○	○	○	○
Edit data in CSV Display	☞ page 25-30	○	○	○	○	○	○
Filing Data Save	☞ page 25-42	○	○	○	○	○	○
File Manager Feature	☞ page 25-86	○	○	○	○	○	○
Display JPEG Files on CF Card	☞ page 9-63	○	○	○	○	○	○
Screen Capture	☞ page 12-17	○	○	○	○	○	○
Script (Operate CF File)	☞ page 21-35	○	○	○	○	○	○
AUX	☞ page 26-10	○	○	○	○	○	○
Sound Output Feature	☞ page 26-3	○	○	○	○	○	○
Record/Play Movies	☞ page 27-12	×	×	×	×	×	○
Video Module	☞ page 27-50	×	×	×	×	×	×
Logic Programing	☞ page 29-3	○	○	○	○	○	○
Variables Settings	☞ page 29-39	○*3	○*3	○*3	○*3	○*3	○*3
Retain Retentive Variables Function	☞ page 29-75	○	○	○	○	○	○
I/O Driver Settings	☞ page 31-5	×	○	×	○	○	×
RPA Function	☞ page 36-2	×	×	○	○	○	○
Device monitor*4	☞ page A-41	○	○	○	○	○	○
Ladder monitor*4	☞ page A-41	○	○	○	○	○	○
Reverse Display	☞ page 5-114	×	×	×	×	×	×
Change Backlight Color	☞ page 5-156	×	×	×	×	×	×
Expired backlight detected	☞ page 5-115	○	○	○	○	○	○
Cross Cursor Display	—	×	×	×	×	×	×
Portrait Orientation	☞ page 5-79	○	○	○	○	○	○
User Screen Area 8 MB	☞ page 6-5	○	○	○	○	○	○

*1 Please refer to the Hardware Manual or “9.5.1 Setting Colors” (page 9-34) for display color.

*2 Up to four drivers can be connected simultaneously.

*3 Variables can be set up to 6000 pts.

*4 Depends on device/PLC settings.

1.3.4 GP-3500 Series

○: Supported												
●: Limited to certain models												
×: Not supported												
GP-3500 Series			AGP-3500L	AGP-3500L-D81	AGP-3500S	AGP-3500S-D81	AGP-3500T	AGP-3500T-D81	AGP-3500T-FN1M	AGP-3510T	AGP-3550T	AGP-3560T
Drawing with 256 Colors*1	☞ page 9-34	×	×	○	○	○	○	○	○	○	○	○
Dark Color Blink	☞ page 5-114	×	×	○	○	○	○	○	○	○	○	○
Simultaneous communication with multiple devices/PLCs	☞ page 7-3	○*2	○*2	○*2	○*2	○*2	○*2	○*2	○*2	○*2	○*2	○*2
LAN Connection	☞ page 7-7	○	○	○	○	○	○	○	○	○	○	○
Modem Transfer	☞ page 33-49	○	○	○	○	○	○	○	○	○	○	○
SIO Transfer (COM Connection)	☞ page 33-62	○	○	○	○	○	○	○	○	○	○	○
CF Card Connect Function for Transfer Tool	☞ page 33-28	○	○	○	○	○	○	○	○	○	○	○
CF Memory Loader Tool	☞ page 33-36	○	○	○	○	○	○	○	○	○	○	○
USB Memory Loader Tool Function	☞ page 33-36	○	○	○	○	○	○	○	○	○	○	○
Backup SRAM's CF Save	☞ page 5-129	○	○	○	○	○	○	○	○	○	○	○
Alarm History (CSV save)	☞ page 19-54	○	○	○	○	○	○	○	○	○	○	○
Sampling Data (CSV Save)	☞ page 24-20	○	○	○	○	○	○	○	○	○	○	○
Recipe Transfer (Transfer CSV Data)	☞ page 25-9	○	○	○	○	○	○	○	○	○	○	○
Edit data in CSV Display	☞ page 25-30	○	○	○	○	○	○	○	○	○	○	○
Filing Data Save	☞ page 25-42	○	○	○	○	○	○	○	○	○	○	○
File Manager Feature	☞ page 25-86	○	○	○	○	○	○	○	○	○	○	○
Display JPEG Files on CF Card	☞ page 9-63	○	○	○	○	○	○	○	○	○	○	○
Screen Capture	☞ page 12-17	○	○	○	○	○	○	○	○	○	○	○
Script (Operate CF File)	☞ page 21-35	○	○	○	○	○	○	○	○	○	○	○
AUX	☞ page 26-10	○	○	○	○	○	○	○	○	○	○	○
Sound Output Feature	☞ page 26-3	○	○	○	○	○	○	○	○	○	○	○
Record/Play Movies	☞ page 27-12	×	×	×	×	×	×	×	×	○	○	○
Video Module	☞ page 27-50	×	×	×	×	○	○	○	○	○	○	○
Logic Programing	☞ page 29-3	○	○	○	○	○	○	○	○	○	○	○
Variables Settings	☞ page 29-39	○*3	○*3	○*3	○*3	○*3	○*3	○*3	○*3	○*3	○*3	○*3
Retain Retentive Variables Function	☞ page 29-75	○	○	○	○	○	○	○	○	○	○	○
I/O Driver Settings	☞ page 31-5	×	○	×	○	×	○	○	×	×	×	×
RPA Function	☞ page 36-2	×	×	×	×	○	○	○	○	○	○	○
Device monitor*4	☞ page A-41	○	○	○	○	○	○	○	○	○	○	○
Ladder monitor*4	☞ page A-41	○	○	○	○	○	○	○	○	○	○	○
Reverse Display	☞ page 5-114	○	○	×	×	×	×	×	×	×	×	×
Change Backlight Color	☞ page 5-156	×	×	×	×	×	×	×	×	×	×	×
Expired backlight detected	☞ page 5-115	○	○	○	○	○	○	○	○	○	○	○
Cross Cursor Display	—	×	×	×	×	×	×	×	×	×	×	×
Portrait Orientation	☞ page 5-79	○	○	○	○	○	○	○	○	○	○	○
User Screen Area 8 MB	☞ page 6-5	○	○	○	○	○	○	○	○	○	○	○

*1 Please refer to the Hardware Manual or see “9.5.1 Setting Colors” (page 9-34) for display color information.

*2 Up to four drivers can be connected simultaneously.

*3 Variables can be set up to 6000 pts.

*4 Depends on device/PLC settings.

1.3.5 GP-3600/3700 Series

○: Supported ●: Limited to certain models ×: Not supported						
GP-3500 Series			AGP-3600T	AGP-3600T-D81	AGP-3600T-FN1M	AGP-3650T
Drawing with 256 Colors*1	☞ page 9-34	○	○	○	○	○
Dark Color Blink	☞ page 5-114	○	○	○	○	○
Simultaneous communication with multiple devices/PLCs	☞ page 7-3	○*2	○*2	○*2	○*2	○*2
LAN Connection	☞ page 7-7	○	○	○	○	○
Modem Transfer	☞ page 33-49	○	○	○	○	○
SIO Transfer (COM Connection)	☞ page 33-62	○	○	○	○	○
CF Card Connect Function for Transfer Tool	☞ page 33-28	○	○	○	○	○
CF Memory Loader Tool	☞ page 33-36	○	○	○	○	○
USB Memory Loader Tool Function	☞ page 33-36	○	○	○	○	○
Backup SRAM's CF Save	☞ page 5-129	○	○	○	○	○
Alarm History (CSV save)	☞ page 19-54	○	○	○	○	○
Sampling Data (CSV Save)	☞ page 24-20	○	○	○	○	○
Recipe Transfer (Transfer CSV Data)	☞ page 25-9	○	○	○	○	○
Edit data in CSV Display	☞ page 25-30	○	○	○	○	○
Filing Data Save	☞ page 25-42	○	○	○	○	○
File Manager Feature	☞ page 25-86	○	○	○	○	○
Display JPEG Files on CF Card	☞ page 9-63	○	○	○	○	○
Screen Capture	☞ page 12-17	○	○	○	○	○
Script (Operate CF File)	☞ page 21-35	○	○	○	○	○
AUX	☞ page 26-10	○	○	○	○	○
Sound Output Feature	☞ page 26-3	○	○	○	○	○
Record/Play Movies	☞ page 27-12	×	×	×	○	○
Video Module	☞ page 27-50	○	○	○	○	×
Logic Programing	☞ page 29-3	○	○	○	○	○
Variables Settings	☞ page 29-39	○*3	○*3	○*3	○*3	○*3
Retain Retentive Variables Function	☞ page 29-75	○	○	○	○	○
I/O Driver Settings	☞ page 31-5	×	○	○	×	×
Remote PC Access Function	☞ page 36-2	○	○	○	○	○
Device monitor*4	☞ page A-41	○	○	○	○	○
Ladder monitor*4	☞ page A-41	○	○	○	○	○
Reverse Display	☞ page 5-114	×	×	×	×	×
Change Backlight Color	☞ page 5-156	×	×	×	×	×
Expired backlight detected	☞ page 5-115	○	○	○	○	○
Cross Cursor Display	—	×	×	×	×	×
Portrait Orientation	☞ page 5-79	○	○	○	○	○
User Screen Area 8 MB	☞ page 6-5	○	○	○	○	○

*1 Please refer to the Hardware Manual or see “9.5.1 Setting Colors” (page 9-34) for display color information.

*2 Up to four drivers can be connected simultaneously.

*3 Variables can be set up to 6000 pts.

*4 Depends on device/PLC settings.

1.3.6 LT3000 Series

○: Supported ●: Limited to certain models ×: Not supported			LT3201-A
LT3000Series			
Drawing with 256 Colors*1	 page 9-34	×	
Dark Color Blink	 page 5-114	×	
Simultaneous communication with multiple devices/PLCs	 page 7-3	×	
LAN Connection	 page 7-7	×	
Modem Transfer	 page 33-49	○	
SIO Transfer (COM Connection)	 page 33-62	○	
CF Card Connect Function for Transfer Tool	 page 33-28	×	
CF Memory Loader Tool	 page 33-36	×	
USB Memory Loader Tool Function	 page 33-36	○	
Backup SRAM's CF Save	 page 5-129	×	
Alarm History (CSV save)	 page 19-54	○*2	
Sampling Data (CSV Save)	 page 24-20	○*2	
Recipe Transfer (Transfer CSV Data)	 page 25-9	○*2	
Edit data in CSV Display	 page 25-30	○*2	
Filing Data Save	 page 25-42	○*2	
File Manager Feature	 page 25-86	○*2	
Display JPEG Files on CF Card	 page 9-63	×	
Screen Capture	 page 12-17	×	
Script (Operate CF File)	 page 21-35	×	
AUX	 page 26-10	×	
Sound Output Feature	 page 26-3	×	
Record/Play Movies	 page 27-12	×	
Video Module	 page 27-50	×	
Logic Programing	 page 29-3	○	
Variables Settings	 page 29-39	○	
Retain Retentive Variables Function	 page 29-75	○	
I/O Driver Settings	 page 31-5	×	
RPA Function	 page 36-2	×	
Device monitor*3	 page A-41	×	
Ladder monitor*3	 page A-41	×	
Reverse Display	 page 5-114	○	
Change Backlight Color	 page 5-156	○	
Expired backlight detected	 page 5-115	×	
Cross Cursor Display	—	×	
Portrait Orientation	 page 5-79	×	
User Screen Area 8 MB	 page 6-5	×*4	

*1 Please see the Hardware Manual or “9.5.1 Setting Colors” (page 9-34) for display information.

*2 Possible using a USB storage device. A CF Card cannot be used.

*3 Depends on the device/PLC settings.

*4 User Screen Area is 6MB.

1.3.7 IPC Series

○: Supported		PS-3651A	PS-3650A	PS-3700A	PS-3710A	PS-3711A	PS-2000B
●: Limited to certain models							
×: Not supported							
IPC Series							
Drawing with 256 Colors*1	 page 9-34	○	○	○	○	○	○
Dark Color Blink	 page 5-114	○	○	○	○	○	○
Simultaneous communication with multiple devices/PLCs	 page 7-3	○*2	○*2	○*2	○*2	○*2	○*2
LAN Connection	 page 7-7	○	○	○	○	○	○
Modem Transfer	 page 33-49	×	×	×	×	×	×
SIO Transfer (COM Connection)	 page 33-62	×	×	×	×	×	×
CF Card Connect Function for Transfer Tool	 page 33-28	○	○	○	○	○	○
CF Memory Loader Tool	 page 33-36	×	×	×	×	×	×
USB Memory Loader Tool Function	 page 33-36	×	×	×	×	×	×
Backup SRAM's CF Save	 page 5-129	○	○	○	○	○	○
Alarm History (CSV save)	 page 19-54	○	○	○	○	○	○
Sampling Data (CSV Save)	 page 24-20	○	○	○	○	○	○
Recipe Transfer (Transfer CSV Data)	 page 25-9	○	○	○	○	○	○
Edit data in CSV Display	 page 25-30	○	○	○	○	○	○
Filing Data Save	 page 25-42	○	○	○	○	○	○
File Manager Feature	 page 25-86	○	○	○	○	○	○
Display JPEG Files on CF Card	 page 9-63	○	○	○	○	○	○
Screen Capture	 page 12-17	○*3	○*3	○*3	○*3	○*3	○*3
Script (Operate CF File)	 page 21-35	○	○	○	○	○	○
AUX	 page 26-10	×	×	×	×	×	×
Sound Output Feature	 page 26-3	○	○	○	○	○	○
Record/Play Movies	 page 27-12	×	×	×	×	×	×
Video Module	 page 27-50	×	×	×	×	×	×
Logic Programing	 page 29-3	×	×	×	×	×	×
Variables Settings	 page 29-39	○	○	○	○	○	○*4
Retain Retentive Variables Function	 page 29-75	×	×	×	×	×	×
I/O Driver Settings	 page 31-5	×	×	×	×	×	×
RPA Function	 page 36-2	×	×	×	×	×	×
Device monitor*5	 page A-41	○	○	○	○	○	○
Ladder monitor*5	 page A-41	×	×	×	×	×	×
Reverse Display	 page 5-114	×	×	×	×	×	×
Change Backlight Color	 page 5-156	×	×	×	×	×	×
Expired backlight detected	 page 5-115	×	×	×	×	×	×
Cross Cursor Display	—	×	×	×	×	×	×
Portrait Orientation	 page 5-79	×	×	×	×	×	×
User Screen Area 8 MB	 page 6-5	○*6	○*6	○*6	○*6	○*6	○*6

*1 Please refer to the Hardware Manual or “9.5.1 Setting Colors” (page 9-34) for display color.

*2 Up to four drivers can be connected simultaneously.

*3 Screen Capture Save to FTP Server is not available.

*4 Variables can be set up to 6000 pts.

*5 Depends on device/PLC settings.

*6 User Screen Area is 16 MB.

