6 Font

This chapter explains basic features of GP-Pro EX's "Font" and basic ways of placing text with each font.

Please start by reading "6.1 Font Types" (page 6-2) and then turn to the corresponding page.

6.1	Font Types	6-2
6.2	Defining Stroke Font and Standard Font	6-3
6.3	Image Font	6-14
6.4	[Font] Settings Guide	6-18
6.5	Restrictions	6-19

Font Types 6.1

Defining Stroke Font and Standard Font

These fonts are used normally.

The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well.

For example, Text in stroke font

"Japanese"

"English"

troke font

"Chinese (Simplified)"

unicode 标准

Setup Procedure (page 6-11) Introduction (page 6-3)

Image Font

This font is used to draw in Windows fonts and can appear pixelated when enlarged.

"Arial/Italic"

"Arial Black"

Image Font

"Helvetica/Bold"

Image Font

Setup Procedure (page 6-15)

Details (page 6-14)

6.2 Defining Stroke Font and Standard Font

6.2.1 Introduction

These fonts are used normally.

The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well.

For example, Text in stroke font

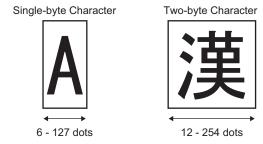


■ Text Feature

♦ Stroke Font

• Can be freely enlarged and displays well.

This font can be freely enlarged within the range of 6 to 127 dots and displays well. The standard size is a single-byte character. Double-byte characters are fixed with the same size horizontally and vertically. However, with a vector font feature, small-sized text cannot display well.



· Can be used for bold/outlines.

♦ Standard Font

- Small sized text can also be displayed well.
 Small sized text also displays well if placed in full scale (original size), such as "8 X16 dots", "16 X 16 dots", or "32 X 32 dots". However, the scaling factor of enlargement/reduction should be selected.
- · Can be used for bold/shadows.

■ Font Types

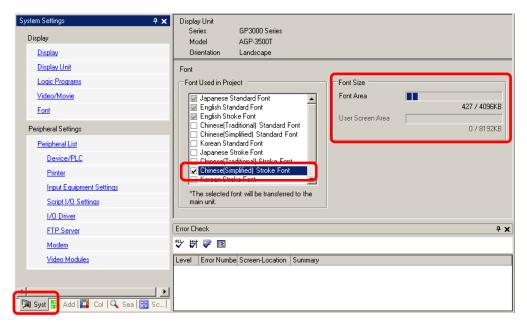
Each display language corresponds to the following fonts. Font Type

Font Type	Display Language	Font Name				
Stroke Font	Japanese	Japanese Stroke Font				
	ASCII	Roman Character Stroke Font				
	Chinese (Simplified)	Chinese (Simplified) Stroke Font				
	Chinese (Traditional)	Chinese (Traditional) Stroke Font				
	Korean	Korean Stroke Font				
	Cyrillic*1	Cyrillic Stroke Font				
	Thai	Thai Stroke Font				
Standard Font	Japanese	Japanese Standard Font				
	ASCII	Standard Font for languages supported by ASCII character set				
	Chinese (Simplified)	Chinese (Simplified) Standard Font				
	Chinese (Traditional)	Chinese (Traditional) Standard Font				
	Korean	Korean Standard Font				

^{*1} Cyrillic letters are mainly used in Russian, Ukrainian, Bulgarian, Byelorussian, Serbian, Macedonian, Kazakh, Kirgiz, and Mongolian languages.

■ Add/Delete Font

Stroke font and standard font use the Font Area (4 MB). To use fonts other than Japanese Standard Font, ASCII Standard Font, and English Stroke Font, add and delete fonts. To add/delete fonts, from the [System Settings] menu, select [Font Settings].



To add Chinese (Simplified) Stroke Font, in the [Font Used in Project] area, select the [Chinese (Simplified) Stroke Font] check box. The Chinese (Simplified) Stroke Font occupies 427 KB of the 4MB Font Area.



- Add only fonts used in the project. Selecting unnecessary fonts could mean fonts overflow the Font Area. For example, on the GP-3500T, if fonts exceed the Font Area capacity of 8 MB,*1 fonts then also use the User Screen Area, reducing the capacity of user applications.
- *1 The User Screen Area's capacity depends on the GP model.
- "1.3 List of Supported Functions by Device" (page 1-5)



• Japanese Standard Font, ASCII Standard Font, and English Stroke Font are fixed. These fonts are automatically transferred to the GP with little load on the Font Area (4 MB) and can be used without considering the font size.

■ Compatible Character Codes

To display characters in the Data Display (Text Display) on the device/PLC, use the following character codes, depending on the display language set for the data display.

Data Display Part's Display Language	Corresponding Text Code	Remarks
Japanese	Shift JIS Code	
ASCII	Code Page 850 Code Page 1250 Code Page 1252 Code Page 1254 Code Page 1257	The ASCII Standard Font only corresponds to Code Page 850. Before using the English Stroke Font, be sure to refer to the following text list. ■ ASCII Stroke Font Dedicated Text List" (page 6-7)
Chinese (Simplified)	GB 2312	
Chinese (Traditional)	BIG5	
Korean	KS C 5601	
Cyrillic	Code Page1251	
Thai	Code Page 874	

■ ASCII Stroke Font Dedicated Text List

If you are using Stroke Fonts for languages supported by the ASCII character set, only the black letters in the following list can be displayed in the Data Display (Text Display). Under the black letter, the Code Page 850's hexadecimal character code number is displayed.

IMPORTANT

• The red characters cannot display on a Data Display Part (Text Display).





■ Character List of Stroke Fonts Exclusive to Cyrillic

The following characters are supported as Cyrillic.

The Character Code displays under each letter. The first code is Native code and the second is Unicode.

		ı	"	#	\$	%	&		()	*	+		_		
Decode	0×20	0v21	0.22		т			0.27	0.29	0×20	-) 0v2C	UvaD	0×2E	/ 0v2E
D																
0x30		1			_		_				:	:	<	=	>	_
	0x30	0x31	0x32	0x33	0x34	_	0x36	0x37	0x38	_	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
0x40	0x0030	0x0031	0x0032	0x0033	0x0034			0x0037		0x0039	0x003A		0x003C	0x003D	0x003E	0x003F
0x0040 0x0041 0x0042 0x0043 0x0044 0x0045 0x0046 0x0047 0x0048 0x0048 0x0044 0x0048 0x0046 0x0040 0x0046 0x0046 0x0046 0x0047 0x0045 0x0045 0x0045 0x0045 0x0051 0x55 0x55 0x55 0x55 0x55 0x55 0	@	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0
P																
0x50	0x0040	0x0041	0x0042	0x0043	0x0044	0x0045	0x0046	0x0047	0x0048	0x0049	0x004A	0x004B	0x004C	0x004D	0x004E	0x004F
0x0050 0x0051 0x0052 0x0053 0x0054 0x0055 0x0056 0x0057 0x0058 0x0059 0x0058 0x0056 0x0050 0x0050 0x0055 0x0055 0x0055 0x0055 0x0055 0x0055 0x0055 0x0055 0x0055 0x0056 0x0661 0x0661 0x0662 0x662 0x663 0x664 0x665 0x666 0x667 0x688 0x669 0x0664 0x0662 0x0660							•						•]		
Name																
A		0x0051	0x0052	0x0053		0x0055		0x0057	0x0058	0x0059	0x005A	0x005B	0x005C	0x005D	0x005E	0x005F
DAGO				_		_				i	j		0.00			
D																
Note	00000	000001	000002	0x0003		0x0003	000000	0,0007	000000	0x0003	UXUUUA	L OYOUD	1	1	~	000001
DADDO DAD	р	q	r	S	t	u	V	W	Х	У	Z	{		}		
b f , f , f , t ‡ %0 Jb K ħ Џ 0x80 0x81 0x82 0x83 0x84 0x85 0x86 0x87 0x88 0x89 0x8A 0x8B 0x8D 0x8E 0x8F 0x0402 0x0403 0x2014 0x0453 0x2016 0x2026 0x2020 0x2021 0x2030 0x0409 0x2039 0x0404 0x0400 0x0406 0x0407 0x088 0x99 0x99 0x99 0x99 0x99 0x99 0x99 0x99 0x99 0x09 0x99 0x90 0x99 0x99 0x90 0x99 0x90 0x90 <																
0.880	0x0070	0x0071	0x0072	0x0073	0x0074	0x0075	0x0076	0x0077	0x0078	0x0079	0x007A	0x007B	0x007C	0x007D	0x007E	0x007F
0x0402		Ĺ	,									<				Ų
TM																
N	0x0402	0x0403	10x201A	10x0453	10x201F	10x2026	(0x2020	10x2021	(0x20A()	1 Ox2030	()y()4()9	0x2039	()x()4()A	(0x040)(;	0x040B	0x040F
Ox00452 Ox2018 Ox2019 Ox201C Ox201D Ox2022 Ox2013 Ox2014 Ox2122 Ox0459 Ox0450 Ox045C Ox045B Ox045E Ox045B Ox045F	1	,				OXEGEG	UNLULU	UNLUL:	O NEO TO		000100		0,10,10,1			ONG 101
No.	_		,	44	"	•	I	_		ТМ	Jb	>	£	Ŕ	ħ	Ų
0xA0 0xA1 0xA2 0xA3 0xA4 0xA5 0xA6 0xA7 0xA8 0xA9 0xAA 0xAB 0xAC 0xAD 0xAE 0xAF 0x00A0 0x040E 0x045E 0x0408 0x00A4 0x0490 0x00A6 0x00A7 0x0401 0x00A9 0x00A8 0x0AD 0x0AD </td <td>0×90</td> <td>0x91</td> <td>0x92</td> <td>0x93</td> <td>77 0x94</td> <td>0x95</td> <td> 0x96</td> <td> 0x97</td> <td></td> <td>тм 0х99</td> <td>Jb 0x9A</td> <td>> 0x9B</td> <td>Њ 0x9С</td> <td>Ќ 0x9D</td> <td>ħ 0×9E</td> <td>Џ 0×9F</td>	0×90	0x91	0x92	0x93	77 0x94	0x95	 0x96	 0x97		т м 0х99	Jb 0x9A	> 0x9B	Њ 0x9С	Ќ 0x9D	ħ 0×9E	Џ 0×9F
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0×90	0x91 0x2018	0x92 0x2019	0x93	77 0x94	0x95	 0x96	0x97 0x2014	0×98	TM 0×99 0×2122	Jb 0x9A 0x0459	0x9B 0x203A	Њ 0x9С	K 0x9D 0x045C	ħ 0×9E	Џ 0×9F
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0x90 0x0452	0x91 0x2018 Ў	0×92 0×2019 Ў	0x93 0x201C	0x94 0x201D	0x95 0x2022	0x96 0x2013 	0x97 0x2014	0×98	0x99 0x2122 ©	ЈЬ 0x9A 0x0459	> 0x9B 0x203A 《	Њ 0x9C 0x045A ¬	K 0x9D 0x045C	ћ 0×9Е 0×045В Ї	0x9F 0x045F
± I I Γ µ ¶ ¶ № € NO. ε ≫ J S ï 0x80 0x81 0x82 0x83 0x84 0x85 0x86 0x87 0x88 0x89 0x8A 0x8B 0x8C 0x8D 0x8E 0x8F 0x0080 0x0081 0x0406 0x0456 0x0491 0x0086 0x0086 0x0451 0x2116 0x0454 0x008B 0x0405 0x0455 0x0457 A B B Г Д E Ж 3 И Й К Л M H O П 0x00 0x01 0x02 0x03 0x04 0x05 0x06 0x07 0x08 0x09 0x0A 0x0B 0x0C 0x0E 0x0E </td <td>0x90 0x0452</td> <td>0x91 0x2018 y 0xA1</td> <td>0x92 0x2019 y 0xA2</td> <td>0x93 0x201C J 0xA3</td> <td>0x94 0x201D</td> <td>0x95 0x2022 r 0xA5</td> <td>0x96 0x2013 0xA6</td> <td>0x97 0x2014 § 0xA7</td> <td>0×98 Ë 0×A8</td> <td>0x99 0x2122 © 0xA9</td> <td>Jb 0x9A 0x0459 E 0xAA</td> <td>> 0x9B 0x203A</td> <td>Њ 0x9C 0x045A ¬ 0xAC</td> <td>Ќ 0×9D 0×045C ℝ 0×AD</td> <td>ħ 0×9E 0×045B Ï 0×AE</td> <td>0x9F 0x045F 0xAF</td>	0x90 0x0452	0x91 0x2018 y 0xA1	0x92 0x2019 y 0xA2	0x93 0x201C J 0xA3	0x94 0x201D	0x95 0x2022 r 0xA5	0x96 0x2013 0xA6	0x97 0x2014 § 0xA7	0×98 Ë 0×A8	0x99 0x2122 © 0xA9	Jb 0x9A 0x0459 E 0xAA	> 0x9B 0x203A	Њ 0x9C 0x045A ¬ 0xAC	Ќ 0×9D 0×045C ℝ 0×AD	ħ 0×9E 0×045B Ï 0×AE	0x9F 0x045F 0xAF
0x00000 0x00001 0x0406 0x0456 0x0491 0x00005 0x00006 0x00007 0x0451 0x2116 0x0454 0x00000 0x0458 0x0405 0x0455 0x0457 A B B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C C OxC0 OxC0 OxC1 OxC2 OxC2 OxC3 OxC4 OxC5 OxC6 OxC7 OxC8 OxC9 OxCA OxCB OxCC OxCD OxCD OxCE OxCF OxCF D C T Y D X L Y L A D D D D D D D D D D D D D D D </td <td>0x90 0x0452 0xA0 0x00A0</td> <td>0x91 0x2018 y 0xA1 0x040E</td> <td>0x92 0x2019 y 0xA2</td> <td>0x93 0x201C J 0xA3</td> <td>0x94 0x201D</td> <td>0x95 0x2022 r 0xA5</td> <td>0x96 0x2013 0xA6</td> <td>0x97 0x2014 § 0xA7</td> <td>0x98 E 0xA8 0x0401</td> <td>0x99 0x2122 © 0xA9 0x00A9</td> <td>Jb 0x9A 0x0459 E 0xAA</td> <td>> 0x9B 0x203A</td> <td>Њ 0x9C 0x045A ¬ 0xAC</td> <td>Ќ 0×9D 0×045C</td> <td>ħ 0×9E 0×045B Ï 0×AE</td> <td>0x9F 0x045F 0xAF 0x0407</td>	0x90 0x0452 0xA0 0x00A0	0x91 0x2018 y 0xA1 0x040E	0x92 0x2019 y 0xA2	0x93 0x201C J 0xA3	0x94 0x201D	0x95 0x2022 r 0xA5	0x96 0x2013 0xA6	0x97 0x2014 § 0xA7	0x98 E 0xA8 0x0401	0x99 0x2122 © 0xA9 0x00A9	Jb 0x9A 0x0459 E 0xAA	> 0x9B 0x203A	Њ 0x9C 0x045A ¬ 0xAC	Ќ 0×9D 0×045C	ħ 0×9E 0×045B Ï 0×AE	0x9F 0x045F 0xAF 0x0407
A B B Γ Д E Ж 3 И Й K Л M H O Π Oxco Oxc1 Oxc2 Oxc3 Oxc4 Oxc5 Oxc6 Oxc7 Oxc8 Oxc9 Oxc4 Oxc6 Ox	0x90 0x0452 0xA0 0x00A0	0x91 0x2018 y 0xA1 0x040E	0x92 0x2019 y 0xA2 0x045E	0x93 0x201C J 0xA3 0x0408	0x94 0x201D C 0xA4 0x00A4	0x95 0x2022 C 0xA5 0x0490	0x96 0x2013 0xA6 0x00A6	0x97 0x2014 § 0xA7 0x00A7	0x98 Ë 0xA8 0x0401 ë	0x99 0x2122 © 0xA9 0x00A9 No.	Jb 0x9A 0x0459 ε 0xAA 0x0404 ε	> 0x9B 0x203A	Ho 0×9C 0×045A ¬ 0×AC 0×00AC j	6 0x9D 0x045C ® 0xAD 0x00AD	\$\frac{\hat{h}}{0\times9E} \\ \frac{0\times045B}{\hat{I}} \\ \frac{0\timesAE}{0\times00AE} \\ \frac{S}{S}	0x9F 0x045F 0xAF 0x0407
0xC0 0xC1 0xC2 0xC3 0xC4 0xC5 0xC6 0xC7 0xC8 0xC9 0xCA 0xCC 0xCD 0xCE 0xCF 0x0410 0x0411 0x0412 0x0413 0x0414 0x0415 0x0416 0x0417 0x0418 0x0419 0x041B 0x041D 0x041D 0x041D 0x041E 0x041F P C T Y Ф X Ц Ч Ш Щ B B D D D A 0x0420 0x0421 0x0422 0x0423 0x0424 0x0425 0x0426 0x0427 0x0428 0x0429 0x042B 0x042C 0x042C 0x042E 0x042F A B F A B K J K J M H O D 0x60 0x61 0x62 0x63 0x64 0x65 0x66 0x67 0x68 0x69 0x6A 0x6B 0x6C 0x6D	0x90 0x0452 0xA0 0x00A0 0	0x91 0x2018 y 0xA1 0x040E + 0xB1	0x92 0x2019 y 0xA2 0x045E 0xB2	0x93 0x201C J 0xA3 0x0408 i 0xB3	0x94 0x201D 0xA4 0x00A4 r 0xB4	0x95 0x2022	0x96 0x2013 0xA6 0x00A6	0x97 0x2014 § 0xA7 0x00A7 • 0xB7	0x98 E 0xA8 0x0401 E 0xB8	0x99 0x2122 © 0xA9 0x00A9 No. 0xB9	Jb 0x9A 0x0459 E 0xAA 0x0404 E 0xBA	> 0x9B 0x203A	Hb 0x9C 0x045A ¬ 0xAC 0x00AC j 0xBC	6 0x9D 0x045C R 0xAD 0x00AD S 0xBD	\$ 0x9E 0x045B 0xAE 0x00AE \$ 0xBE	0x9F 0x045F 0x045F 0x0407 i 0xBF
Ox04110 0x04111 0x0412 0x0413 0x0414 0x0415 0x0416 0x0416 0x0417 0x0418 0x041A 0x041B 0x041D 0x041D 0x041D 0x041E 0x041F 0x042F 0x042F 0x0428 0x0429 0x0428 0x042B 0x042B 0x042C 0x042C 0x042E 0x042F 0x042F 0x042B 0x042B 0x042C 0x042B 0x042E 0x042B 0x042E 0x042B 0x042B 0x04	0x90 0x0452 0xA0 0x00A0 0 0xB0 0x00B0	0x91 0x2018 y 0xA1 0x040E + 0xB1 0x0B1	0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406	0x93 0x201C J 0xA3 0x0408 i 0xB3	0x94 0x201D 0xA4 0x00A4 r 0xB4	0x95 0x2022 C 0xA5 0x0490 U 0xB5 0x0085	0x96 0x2013 0xA6 0x00A6	0x97 0x2014 § 0xA7 0x00A7 • 0xB7 0x00B7	0x98 E 0xA8 0x0401 E 0xB8	0x99 0x2122 © 0xA9 0x00A9 NO. 0xB9 0x2116	0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454	> 0x9B 0x203A	0x9C 0x045A 0xAC 0x00AC 0xBC 0xBC	6 0x9D 0x045C R 0xAD 0x00AD S 0xBD	\$ 0x9E 0x045B 0xAE 0x00AE \$ 0xBE	0x9F 0x045F 0x045F 0x0407 i 0xBF
P C T У Ф X Ц Ч Ш Ш Б Б Б Э Ю Я 0xD0 0xD1 0xD2 0xD3 0xD4 0xD5 0xD6 0xD7 0xD8 0xD9 0xDA 0xDB 0xDC 0xDD 0xDE 0xDF 0x0420 0x0421 0x0422 0x0423 0x0424 0x0425 0x0426 0x0427 0x0428 0x0429 0x042B 0x042B 0x042C 0x042D 0x042E 0x042F a 6 B Г Д e Ж 3 И Й K Л M H O П 0xE0 0xE1 0xE2 0xE3 0xE4 0xE5 0xE6 0xE7 0xE8 0xE9 0xEA 0xEB 0xEC 0xED 0xEE 0xEF 0x0430 0x0431 0x0432 0x0433 0x0435 0x0435 0x0436 0x0437 0x0438 0x0439	0x90 0x0452 0x0452 0x00A0 0 0x00A0 0 0x00B0	0x91 0x2018 y 0xA1 0x040E ± 0xB1 0x00B1	0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456	0x94 0x201D CI 0xA4 0x00A4 C 0xB4 0x0491	0x95 0x2022 C 0xA5 0x0490 U 0xB5 0x00B5			0x98 E 0xA8 0x0401 E 0xB8 0x0451	0x99 0x2122 © 0xA9 0x00A9 NO. 0xB9 0x2116	Jb 0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K	> 0x9B 0x203A ≪ 0xAB 0x00AB >> 0xBB 0x00BB	нь 0x9C 0x045A ¬ 0xAC 0x00AC j 0xBC 0x0458 М	K 0x9D 0x045C ℝ 0xAD 0x00AD S 0xBD 0x0405 H	\$\frac{h}{0x9E}\$ \$\frac{0x045B}{i}\$ \$\frac{0}{i}\$ \$0x0AE\$ \$0x00AE\$ \$\$ \$0xBE\$ \$0x0455\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	0x9F 0x045F 0x045F 0x0407 i 0xBF 0x0457
0xD0 0xD1 0xD2 0xD3 0xD4 0xD5 0xD6 0xD7 0xD8 0xD9 0xDA 0xDB 0xDC 0xDD 0xDE 0xDF 0x0420 0x0421 0x0422 0x0423 0x0424 0x0425 0x0426 0x0427 0x0428 0x0429 0x042B 0x042C 0x042D 0x042E 0x042F A B F A B K A B K A M H A B B C 0x042 0x0425 0x0426 0x0427 0x0428 0x0429 0x042B 0x042C 0x042D 0x042E 0x042F B B F A B K 3 N N K J M H O T 0xE0 0xE1 0xE2 0xE3 0xE4 0x045 0x0436 0x0437 0x0438 0x0439 0x043B 0x043C 0x043B 0x043E 0x043F 0xF0	0x90 0x0452 0xA0 0x00A0 0x00A0 0x00B0 0x00B0 A	0x91 0x2018 y 0xA1 0x040E ± 0xB1 0x00B1 5 0xC1	0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406 B 0xC2	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 1	0x95 0x2022			0x98 E 0xA8 0x0401 E 0xB8 0x0451 N 0xC8	0x99 0x2122 0xA9 0x00A9 No. 0xB9 0x2116 0xC9	Jb 0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA	> 0x9B 0x203A	Ho 0x9C 0x045A	K 0x9D 0x045C ℝ 0xAD 0x00AD S 0xBD 0x0405 H 0xCD	0x9E 0x045B 0xAE 0x00AE 0x00AE 0x0455 0x0455	0x9F 0x045F 0x045F 0x0407 i 0xBF 0x0457 0xCF
ОхО420 ОхО421 ОхО422 ОхО422 ОхО424 ОхО425 ОХО426 ОХО427 ОХО428 ОХО429 ОХО42B ОХО4B ОХО4B ОХО4B ОХО4B ОХО4B ОХО4B ОХО4A ОХО4B ОХ	0x90 0x0452 0xA0 0x00A0 0x00A0 0x00B0 0x00B0 A	0x91 0x2018	0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406 B 0xC2	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0xO413	0x94 0x201D 0xA4 0x00A4 r' 0xB4 0x0491 DxC4 0xO414	0x95 0x2022			0x98 E 0xA8 0x0401 E 0xB8 0x0451 N 0xC8	0x99 0x2122 0xA9 0x00A9 No. 0xB9 0x2116 0xC9	Jb 0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA	> 0x9B 0x203A	Ho 0x9C 0x045A	K 0x9D 0x045C € 0xAD 0x00AD 0x00AD S 0xBD 0x0405 H 0xCD 0x041D	0x9E 0x045B 0xAE 0x00AE S 0xBE 0x0455 O 0xCE 0x041E	0x9F 0x045F 0x0407 i 0xBF 0x0457 0xCF 0xCF
A Б B Г Д E Ж 3 И Й К Л M H O П 0xE0 0xE1 0xE2 0xE3 0xE4 0xE5 0xE6 0xE7 0xE8 0xE9 0xEA 0xEB 0xEC 0xED 0xEE 0xEF 0x0430 0x0431 0x0432 0x0433 0x0434 0x0435 0x0436 0x0437 0x0438 0x0439 0x043A 0x043B 0x043B </td <td>0x90 0x0452 0x0452 0x00A0 0x00A0 0x00B0 A 0x00B0 0x0410 P</td> <td>0x91 0x2018 y 0xA1 0x040E ± 0xB1 0x00B1 5 0xC1 0x0411</td> <td>, 0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406 B 0xC2 0x0412</td> <td>0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413</td> <td>0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 A 0xC4 0x0414 D</td> <td>0x95 0x2022 C 0xA5 0x0490 µ 0xB5 0x0085 E 0xC5 0x0415</td> <td></td> <td>0x97 0x2014 \$ 0xA7 0x00A7 . 0xB7 0x00B7 0x00B7 0x00H7 U</td> <td>0x98 E 0xA8 0x0401 E 0xB8 0x0451 V 0xC8 0xO418</td> <td>0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 Ŭ 0xC9 0x0419</td> <td>Jb 0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A D</td> <td>> 0x9B 0x203A ≪ 0xAB 0x00AB >> 0xBB 0x00BB ∫ 0xCB 0xCB 0x041B H</td> <td>В 0x9C 0x045A</td> <td>К 0x9D 0x045C © 0xAD 0x00AD S 0xBD 0x0405 H 0xCD 0x041D</td> <td>\$\hat{\hat{\hat{\hat{\hat{\hat{\hat{\hat</td> <td>0x9F 0x045F 0x0407 i 0xBF 0x0457 0xCF 0x041F S</td>	0x90 0x0452 0x0452 0x00A0 0x00A0 0x00B0 A 0x00B0 0x0410 P	0x91 0x2018 y 0xA1 0x040E ± 0xB1 0x00B1 5 0xC1 0x0411	, 0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406 B 0xC2 0x0412	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 A 0xC4 0x0414 D	0x95 0x2022 C 0xA5 0x0490 µ 0xB5 0x0085 E 0xC5 0x0415		0x97 0x2014 \$ 0xA7 0x00A7 . 0xB7 0x00B7 0x00B7 0x00H7 U	0x98 E 0xA8 0x0401 E 0xB8 0x0451 V 0xC8 0xO418	0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 Ŭ 0xC9 0x0419	Jb 0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A D	> 0x9B 0x203A ≪ 0xAB 0x00AB >> 0xBB 0x00BB ∫ 0xCB 0xCB 0x041B H	В 0x9C 0x045A	К 0x9D 0x045C © 0xAD 0x00AD S 0xBD 0x0405 H 0xCD 0x041D	\$\hat{\hat{\hat{\hat{\hat{\hat{\hat{\hat	0x9F 0x045F 0x0407 i 0xBF 0x0457 0xCF 0x041F S
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3/1/2 3/1/2	0x90 0x0452 0xA0 0x00A0 0 0x00B0 A 0x00B0 0x0410 P 0xD0 0x0420 a 0xE0 0x0430	0x91 0x2018 y 0xA1 0x040E 0xB1 0x00B1 C 0x0411 C 0xD1 0x0421 6 0xE1 0x0431	, 0x92 0x2019	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 A 0xC4 0x0414 D 0xD4 0x0424 A 0xE4 0x0434	0x95 0x2022 f 0xA5 0x0490 µ 0xB5 0x00B5 E 0xC5 0x0415 X 0xD5 0x0425 e 0xE5 0x0435			0x98 E 0xA8 0x0401 E 0xB8 0x0451 N 0xC8 0x0418 U 0xD8 0x0428 N 0xE8 0x0438	TM 0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 ✓ 0xC9 0x0419 □ 0xD9 0x0429 ✓ ✓ 0xE9 0x0439	Jb 0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A D 0xDA 0x042A K 0xEA 0x043A	> 0x9B 0x203A	B 0x9C 0x045A 0xAC 0x00AC j 0xBC 0x0458 M 0xCC 0x041C b 0xDC 0x042C M 0xEC 0x043C	K 0x9D 0x045C 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0x041D 0x042D H 0xED 0x043D	\$\frac{0\times 0}{1}\$ \$\frac{0\times 9E}{0\times 045B}\$ \$\frac{0\times 0}{1}\$ \$0\times 0\times 0EE \$0\times 0EE \$0\times 0EE \$0\times 0EE \$0\times 0EE \$0\times 0EE	0x9F 0x045F 0x0407 i 0xBF 0x0457 0xCF 0x0457 0xCF 0x041F 9 0xDF 0x042F 0xEF 0x043F
$ \left 0 \times 0440 \right 0 \times 0441 \right 0 \times 0442 \right 0 \times 0443 \right 0 \times 0444 \right 0 \times 0445 \right 0 \times 0446 \right 0 \times 0447 \right 0 \times 0448 \right 0 \times 0449 \right 0 \times 0448 \right 0 \times 0446 \bigg 0 \times 046 \bigg 0 \times 0$	0x90 0x0452 0xA0 0x00A0 0 0x00B0 A 0x00B0 0x0410 P 0xD0 0x0420 a 0xE0 0x0430 p	0x91 0x2018	, 0x92 0x2019 y 0xA2 0x045E I 0xB2 0x0406 B 0xC2 0x0412 T 0xD2 0x0422 B 0xE2 0x0432 T	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3 0x0433	70x94 0x201D 0xA4 0x00A4 г 0xB4 0x0491 Д 0xC4 0x0414 Ф 0xD4 0xD4 0x0424 Д 0xE4 0x0434	0x95 0x2022 f 0xA5 0x0490 µ 0xB5 0x00B5 E 0xC5 0x0415 X 0xD5 0x0425 e 0xE5 0x0435			0x98 E 0xA8 0x0401 E 0xB8 0x0451 N 0xC8 0x0418 U 0xD8 0x0428 N 0xE8 0x0438	тм 0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 Й 0xC9 0x0419 Ш 0xD9 0x0429 Й 0xE9 0x0439	Jb 0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A D 0xDA 0x042A K 0xEA 0x043A	Ox9B Ox203A OxAB Ox00AB OxBB Ox00BB OxCB Ox041B OxDB OxDB Ox042B OxEB OxEB OxEB OxEB	B 0x9C 0x045A 0xAC 0x00AC j 0xBC 0x0458 M 0xCC 0x041C D 0xDC 0x042C M 0xEC 0x043C B	K 0x9D 0x045C 0x045C 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0x041D 0x042D H 0xED 0x043D 0x043D	\$\begin{array}{c} \hat{h} & \text{0x9E} & \text{0x045B} & \text{0x00AE} & \text{0x00AE} & \text{0x0455} & \text{0} & \text{0x0455} & \text{0} & \text{0x041E} & \text{0x041E} & \text{0x042E} & \text{0x042E} & \text{0x043E}	0x9F 0x045F 0xAF 0x0407 i 0xBF 0x0457 0xCF 0x041F 9 0xDF 0x042F 0xEF 0x043F Я

■ Character List of Stroke Fonts Exclusive to Thai

The following characters are supported as Thai.

The Character Code is displayed under each letter. The first code is Native code and the second is Unicode.

IMPORTANT

• The red characters cannot display on a Data Display Part (Text Display).

	1	//	#	\$	%	&		(١	*	+		_		/
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0	1	2	3	4	5	6	7	8	9	:		<	=	>	?
0x30	0x31	0×32	0×33	0x34	0×35	0×36	0×37	0x38	0×39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
0x0030	0x0031	0x0032	0x0033	0x0034		0x0036	0x0037	0x0038	0x0039	0x003A	0x003B	0x003C	0x003D	0x003E	0x003F
@	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	Ν	0
0x40	0x41	0x42	0×43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
0x0040	0x0041	0×0042	0×0043	0×0044	0×0045	0×0046	0×0047	0x0048	0×0049	0x004A	0x004B	0x004C	0×004D	0x004E	0x004F
Р	Q	R	S	T	U	V	W	X	Υ	Z	L	¥			
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
0x0050	0x0051		UXUU53	0x0054	UXUU55		0x0057		0x0059	0x005A	_	0x005C	UXUUSD	UXUU5E	UXUUSF
0x60	0x61	b 0x62	C 0x63	0x64	e	f	g 0x67	h 0x68	0x69	J 0x6A	0x6B	0x6C	m 0x6D	0x6E	0 0x6F
				0x004											
р	q	r	S	t	u	V	W	X	V	Z	{	0.0000	}	~	0,0001
0x70	0x71	0×72	0×73	0×74	0×75	0x76	0×77	0x78	0×79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
	0x0071			0x0074											
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
0x20AC		_			0×2026										
	4	,	44	"	-	_									
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								_		01	m.f	0.1	0.1		
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0xA0	0xA1 0x0E01	0xA2	0xA3	0xA4 0x0E04	0xA5	0xA6	0xA7	0xA8	0xA9	0xAA	0xAB	0xAC	0xAD	0xAE	0xAF
UXUUAU	UXUEUT	UXUEUZ	UXUEU3	UXUEU4	UXUEUS	UXUEU6	UXUEU7	UXUEU8	UXUEU9	UXUEUA		UXUEUC		UXUEUE	
ฐ 0xB0	ท 0xB1	% 0xB2	ณ 0xB3	୭ 0xB4	ଡ଼ା 0xB5	ា 0xB6	Ⅵ 0xB7	ว ั 0xB8	น _{0xB9}	ับ 0xBA	ป 0xBB	ິ ຟ 0xBC	0xBD	₩ 0xBE	₩ 0xBF
				0x0E14											
ภ	ม	ย	ร	ฤ	ล	ภ	3	ศ	14	ส	ห	พั	อ	<u>a</u>	y
0xC0	0xC1	0xC2	0xC3	0xC4	0xC5	0xC6	0xC7	0xC8	0xC9	0xCA	0xCB	0xCC	0xCD	0xCE	0xCF
0x0E20	0x0E21	0x0E22		0x0E24	0x0E25	0x0E26	0x0E27	0x0E28	0x0E29	0x0E2A	0x0E2B	0x0E2C	0x0E2D	0x0E2E	0x0E2F
66	ð	า	ำ	۵	۵	4	đ	,	ย						₿
0xD0	0xD1	0xD2	0xD3	0xD4	0xD5	0xD6	0xD7	0xD8	0xD9	0xDA	0xDB	0xDC	0xDD	0xDE	0xDF
0x0E30	0x0E31	0x0E32		0x0E34	0x0E35	0x0E36									0x0E3F
ŀ	ll	Ĩ	ใ	٦	า	ๆ	u	1	ש	ബ	+	6	0	ε	0
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0	စ	ഉ	๓	ಡ	៥	<i>'</i>	ബ)	ಡ	64,	๚	Cm				
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				0x0E54											

6.2.2 Setup Procedure



- Japanese Standard Font, ASCII Standard Font, and English Stroke Font are fixed. You do not have to add or delete these fonts as in steps 1-4 below.
- Please refer to the Settings Guide for details.
 "8.12.1 Text Settings Guide" (page 8-97)
- For more information about text, please refer to "8.3 Writing Text" (page 8-26).

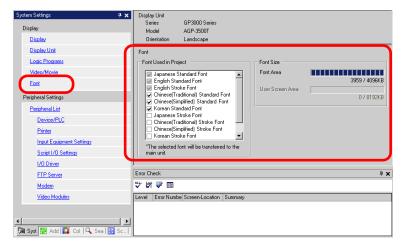
These fonts are used normally.

The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well.

For example, Text in stroke font

"Chinese (Simplified)" 设定输入画面

1 From the [System Settings] menu, select [Font]. The following dialog box appears.



NOTE

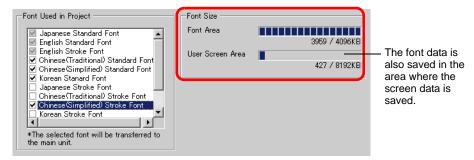
- If the [System Settings] tab is not displayed, from the [View (V)] menu, point to [Work Space (W)] and select [System Settings (S)].
- 2 From [Font Used in Project], select the [Chinese (Simplified) Stroke Font] check box.



3 The following message appears.

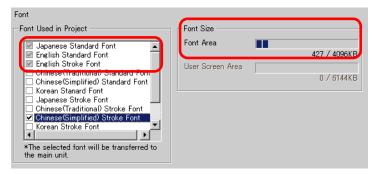


Click [Yes]. You can confirm that the User Screen Area is also used.



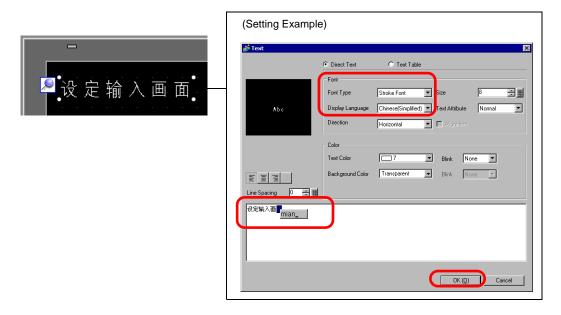
Click [No]. The font addition is canceled.

4 Clear the check box for the fonts you are not using. This allows more free space in the Font Area.



5 As an example, add text in Simplified Chinese to a screen. This example assumes you have enabled the Chinese (Simplified) font in your operating system. See the Appendix for more information. Place text in the drawing area then double-click to open the [Text] dialog box. In

[Font Type], select [Stroke Font]. In [Display Language], select [Chinese (Simplified)]. In the text box, enter the text using pin yin. Then click [OK] to close the dialog box.



NOTE

• When you select the [Stroke Font] in [Font Type] or change the [Display Language], the following dialog box may appear. This confirms to add the font type since a switch has been set before adding the font.



To add the font, click [Yes].

If you click [No], adding the font is canceled. The entered text cannot be properly displayed on the GP.

6.3 Image Font

6.3.1 Introduction

This font is used to draw with a Windows font and can appear pixelated when enlarged. You can use bold and italics as well as the standard style.

"Arial/Italic" イメージフォント

"Arial Black"

Image Font

"Helvetica//Bold"

Image Font

IMPORTANT

• You can select this font only when [Direct Text] is set in the part's label/text.

■ Text Feature

You can display characters with various Windows fonts.
 Displays a Windows font as a bitmap.



For: "Arial/Italic"

Text displays well regardless of enlargement/reduction or the text size.
 For example, if the placement size is enlarged by increasing the number of characters in the text, the text is displayed with the set font and text size.





12345

- · Can be used for bold/italics.
- Using too much of this font restricts the User Screen Area capacity.
 The image font uses the User Screen Area.

Taking a lot of memory by using larger character sizes or more characters may cause restrictions to create a screen. From the [Project (F)] menu, verify [Information (I)] - [Project Information (I)] - [Send Data] - [Send Size] to make sure not use too many Image Fonts.

NOTE

• The User Screen Area's capacity depends on the GP model.

"1.3 List of Supported Functions by Device" (page 1-5)

6.3.2 Setup Procedure



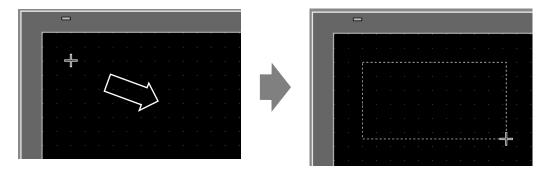
• Please refer to the Settings Guide for details.

**B.12.1 Text Settings Guide" (page 8-97)

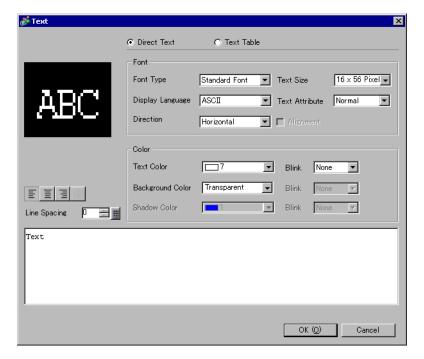
Use the "Image Font". You can use bold and italics as well as the standard style. "Arial/Italic"



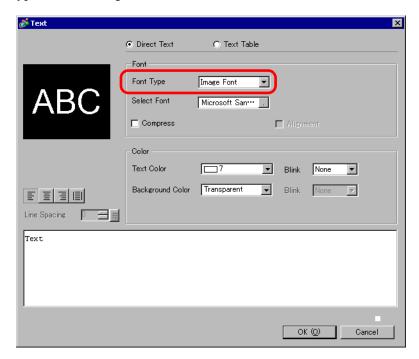
1 From the [Draw (D)] menu, select [Text (S)] or click **A** from the toolbar. Click on the base screen and drag to the desired size. Right-click to release the draw mode.



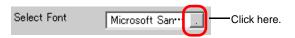
2 Double-click the new text. The following dialog box appears.



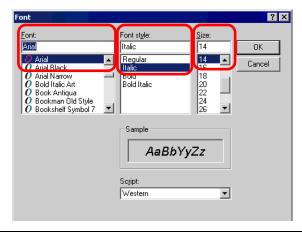
3 In [Font Type], select [Image Font].



4 Click the [Select Font] button to display the setting dialog box.



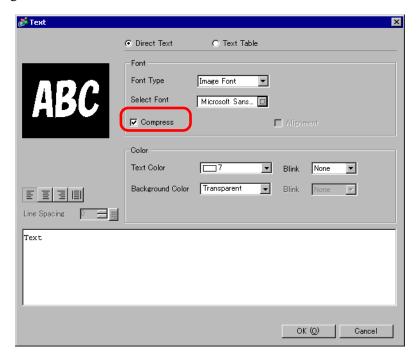
5 Set the [Font], [Font Style] and [Size], then click [OK].



NOTE

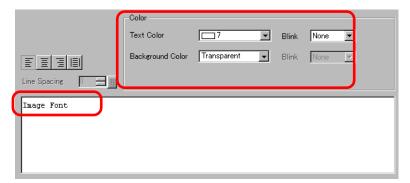
• If you use vertical text, select a font for vertical text (beginning with @ "For example, @MS Gothic") for the font.

6 Select the [Compress] check box. The font file size is compressed to about half the size, depending on characters.



NOTE

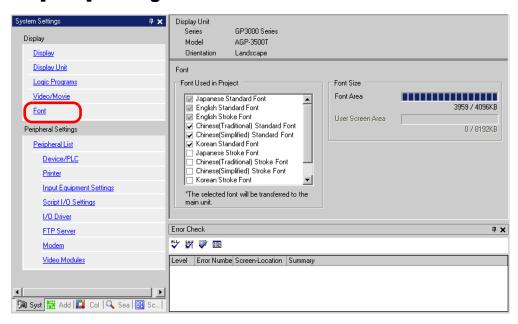
- [Compress] is recommended for reducing the project file volume.
- 7 Select the colors you want and input text in the Input Text border.



8 Click [OK] and the setting are completed.



6.4 [Font] Settings Guide



Setting		Description						
Fo	nt	Configure font settings.						
	Font Used in Project Select the fonts used in project files. NOTE • Japanese Standard Font, ASCII Standard Font, and English Strok are fixed.							
Fo	nt Size	Displays the memory size of the font.						
	Font Area	Displays the memory size in the font area from 0/4096 KB to 4096/4096 KB. When the font size exceeds the font area, it uses the user screen area. NOTE • GP-32**Series cannot be used in the font area. When using a font other than [Japanese Standard Font], [ACSII Standard Font] and [English Stroke Font], it uses the user screen area.						
	User Screen Area	Displays the memory size of the font used in the user screen area. The capacity of the user screen varies among GP models. "1.3 List of Supported Functions by Device" (page 1-5)						

6.5 Restrictions

6.5.1 Restrictions for Standard Font

- When [ASCII] is selected for the [Standard Font] [Display Language], select a text size from the three fixed sizes [6 x 10 dot], [8 x 13 dot], and [13 x 23 dot].
- When the [Character Size] is [6 x 10 dot] fixed size, you cannot select [Bold] from the [Text Attribute].
- When you display the text registered in a text table on a part with a [Fixed Size], refer to the ASCII text table and select or add the part's text. Text on a table without ASCII language settings cannot be properly displayed on the GP.
- If you change the font type to [Standard Font] after the text has been entered as a [Stroke Font], the text may not be displayed on the GP.
- GP-32** Series cannot use the Font Area. Any font, other than [Japanese Standard Font], [English Standard Font] and [English Stroke Font], occupy the User Screen Area.
- If using several types of fonts, the user screen area is used for the font area excess. Therefore, the screen data capacity is decreased.

6.5.2 Restrictions for Image Font

• [Image Font] is a bitmap image. You cannot set the [Display Language], [Text Type], or Vertical Text (where the [Direction] is [Vertical].).