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
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6.1 Font Types

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"

ストロークフォント

"English"

stroke font

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

"Chinese (Simplified)"

unicode 标准

Image Font

This font is used to draw with a Windows font and can appear pixelated when enlarged.

"Japanese Font"

イメージフォント

"Arial"

Image Font

"Helvetica/Bold"

Image Font

Setup Procedure (page 6-15)
Introduction (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



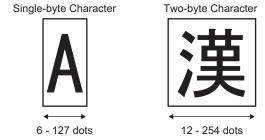
■ Text Features

♦ Stroke Font

· Can be freely enlarged and displays well.

This font can be freely enlarged within the range of 6 to 127 pixels 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 pixels", "16 X 16 pixels", or "32 X 32 pixels". However, the scaling factor of enlargement/reduction should be selected.
- · Can be used for bold/shadows.

■ Font Types

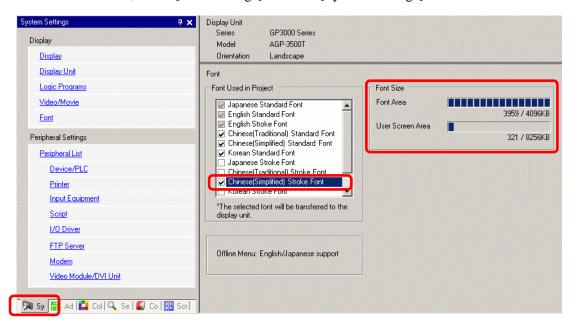
Each display language corresponds to the following fonts.

Font Type	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, select [Font Settings] from the [System Settings] menu.



For example, 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 Supported Features" (page 1-5)



- Japanese Standard Font, English 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.
- On GP-32** Series or ST Series, English Standard Font and English Stroke
 Font are must always be installed but the Japanese Standard Font can be
 deleted.

■ 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. ■ List of characters exclusive to ASCII Stroke Font" (page 6-7)
Chinese (Simplified)	GB 2312	
Chinese (Traditional)	BIG5	
Korean	KS C 5601	
Cyrillic	Code Page 1251	
Thai	Code Page 874	

■ List of characters exclusive to ASCII Stroke Font

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.



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



*1 "0020" displays a single-byte space.

Continued



■ List of characters exclusive to Cyrillic Stroke Font

The following characters are supported as Cyrillic.

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

	ı	"	#	\$	%	&		()	*	+		_		
0×20	0x21	0x22	0x23	Ψ 0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	0x2C	0x2D	0x2E	0×2F
	0x0021														0x002F
0	1	2	3	4	5	6	7	8	9	:	•	<	=	>	?
0x30	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
0x0030	0x0031	0x0032	0x0033	0x0034	0x0035	0x0036	0x0037	0x0038	0x0039	0x003A	0x003B	0x003C	0x003D	0x003E	0x003F
@	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	Ν	0
0x40	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
0x0040	0x0041	0x0042		0x0044	0x0045	0x0046	0x0047	0x0048	0x0049		0x004B	0x004C	0x004D	0x004E	0x004F
Р	Q	R	S	Т	U	V	W	X	Υ	Z		¥]	^	
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
0x0050	0x0051		0x0053	0x0054	0x0055		0x0057	0x0058	0x0059	0x005A		0x005C	0x005D	0x005E	0x005F
0.00	a	b	C	d	е	f	g	h	i	<u>j</u>	k		m	n	0
0x60	0x61 0x0061	0x62	0x63	0x64	0x65 0x0065	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
00000	000001	000002	0x0003		0x0003	00000		000000	0x0003	UXUUUA	L OXOGOD	0.0000	1	~	000001
р	q	r	S	t	u	V	W	Х	У	Z	[}		
0x70	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0×79	0x7A	0x7B	0x7C	0x7D	0×7E	0x7F
	0x0071	0x00/2		0x0074	0x0075			0x0078			0x007B		,		0x007F
Ъ	Γ	,	ŕ	"	• • • •	†	‡		‰	JЬ	<	Њ	K	ħ	Ų
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
0x0402		UXZUTA	UXU453	UXZUTE	0x2026	UX2U2U	UX2U21	UXZUAU	UX2U3U	UXU4U9	UX2U39	UXU4UA	UXU4UC	UXU4UB	UXU4UF
	4	,	44	77											
ħ	•	,	"	"	•	_	_		TM	Jb	>	њ	Ŕ	ħ	Ų
0×90	0x91	0x92	0x93	0x94	0x95	0x96	0x97	0x98	т м 0х99	0x9A	0x9B	Њ 0x9С	K 0×9D	ħ 0x9E	Џ 0×9F
0×90	0x91 0x2018	0x92 0x2019	0x93 0x201C	0x94 0x201D	0x95 0x2022		0x2014	0×98	TM 0x99 0x2122	0x9A 0x0459	0x9B 0x203A	Њ 0x9С	K 0x9D 0x045C	ħ 0x9E	Џ 0×9F
0x90 0x0452	0x91 0x2018 ў	0x92 0x2019	0x93 0x201C	0x94 0x201D	0×2022	0x2013	0x2014	0×98	0x99 0x2122 ©	0x9A 0x0459	0x9B 0x203A	Њ 0×9С 0×045А	K 0x9D 0x045C	ħ 0×9E 0×045B Ï	Ļ 0x9F 0x045F
0x90 0x0452	0x91 0x2018 Ў 0xA1	0x92 0x2019 y 0xA2	0x93 0x201C J 0xA3	0x94 0x201D	0x2022 C 0xA5	0x2013 	0x2014 § 0xA7	0x98 Ë 0xA8	0x99 0x2122 © 0xA9	0x9A 0x0459 E 0xAA	0x9B 0x203A	Њ 0x9C 0x045A ¬ 0xAC	Ќ 0×9D 0×045C ® 0×AD	ħ 0×9E 0×045B Ï 0×AE	0x9F 0x045F 0xAF
0x90 0x0452 0xA0 0x00A0	0x91 0x2018 y 0xA1 0x040E	0x92 0x2019 y 0xA2	0x93 0x201C J 0xA3	0x94 0x201D	0×2022	0x2013 	0x2014 § 0xA7	0x98 E 0xA8 0x0401	0x99 0x2122 © 0xA9 0x00A9	0x9A 0x0459 E 0xAA	0x9B 0x203A	Њ 0x9C 0x045A ¬ 0xAC	Ќ 0×9D 0×045C ℝ 0×AD 0×00AD	ħ 0×9E 0×045B Ï 0×AE	0x9F 0x045F 0xAF 0x0407
0x90 0x0452 0xA0 0x00A0	0x91 0x2018 y 0xA1 0x040E	0x92 0x2019 y 0xA2 0x045E	0x93 0x201C J 0xA3 0x0408	0x94 0x201D C 0xA4 0x00A4	0x2022	0x2013 	0x2014 § 0xA7 0x00A7	0x98 Ë 0xA8 0x0401 ë	0x99 0x2122 © 0xA9 0x00A9 No.	0x9A 0x0459 E 0xAA 0x0404	0x9B 0x203A	0x9C 0x045A 0xAC 0xAC 0x00AC	K 0x9D 0x045C R 0xAD 0x00AD	\$\frac{\hat{h}}{0\times9E} \\ \frac{\frac{0\times045B}{1}}{0\timesAE} \\ \frac{0\timesAE}{0\times00AE} \\ \frac{S}{\times}	0x9F 0x045F 0xAF 0x0407
0x90 0x0452 0xA0 0x00A0 0	0x91 0x2018 y 0xA1 0x040E + 0xB1	0x92 0x2019 y 0xA2 0x045E 0xB2	0x93 0x201C	0x94 0x201D 0xA4 0x00A4 r 0xB4	0x2022	0x2013 0xA6 0x00A6 0xB6	0x2014 § 0xA7 0x00A7	0x98 E 0xA8 0x0401 E 0xB8	0x99 0x2122 © 0xA9 0x00A9 No. 0xB9	0x9A 0x0459 E 0xAA 0x0404 E 0xBA	0x9B 0x203A	0x9C 0x045A 0xAC 0xAC 0x00AC j	K 0x9D 0x045C R 0xAD 0x00AD S 0xBD	\$ 0x8E 0x045B 0xAE 0x00AE S 0xBE	0x9F 0x045F 0xAF 0x0407 i 0xBF
0x90 0x0452 0xA0 0x00A0 0 0xB0 0x00B0	0x91 0x2018 y 0xA1 0x040E + 0xB1 0x00B1	0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406	0x93 0x201C	0x94 0x201D 0xA4 0x00A4 r 0xB4	0x2022 C 0xA5 0x0490 µ 0xB5 0x00B5	0x2013 0xA6 0x00A6 0xB6	0x2014 S 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	K 0x9D 0x045C R 0xAD 0x00AD S 0xBD	\$ 0x8E 0x045B 0xAE 0x00AE S 0xBE	0x9F 0x045F 0xAF 0x0407 i 0xBF
0x90 0x0452 0x0452 0x00A0 0 0x00A0 0 0x00B0	0x91 0x2018 y 0xA1 0x040E <u>+</u> 0xB1 0x00B1	0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406 	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456	0x94 0x201D C 0xA4 0x00A4 C 0xB4 0x0491	0x2022 C 0xA5 0x0490 P 0xB5 0x00B5 E	0x2013 0xA6 0x00A6 ¶ 0xB6 0x00B6	0x2014 \$ 0xA7 0x00A7 0xB7 0x00B7	0x98 E 0xA8 0x0401 E 0xB8 0x0451	0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116	0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454	0x9B 0x203A	Ho 0x9C 0x045A □ 0xAC 0x00AC j 0xBC 0x0458	κ́ 0x9D 0x045C ® 0xAD 0x00AD 0x00AD S 0xBD 0x0405 H	0x9E 0x045B 0xAE 0x00AE 0x00AE S 0xBE 0x0455	0x9F 0x045F 0x0407 i 0xBF 0x0457
0x90 0x0452 0xA0 0x00A0 0 0xB0 0x00B0 A 0xC0	0x91 0x2018 y 0xA1 0x040E <u>+</u> 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 0x00A4 r 0xB4 0x0491 0xC4	0x2022 C 0xA5 0x0490 µ 0xB5 0x00B5 E 0xC5	0x2013 0xA6 0x00A6 0x00A6 0xB6 0x00B6 0xC6	0x2014 \$ 0xA7 0x00A7 0xB7 0x00B7 0x00B7 0x00C7	0x98 C 0xA8 0x0401 C 0xB8 0x0451 N 0xC8	0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 V	0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K	0x9B 0x203A 0xAB 0x00AB 0x00AB 0x00BB 0x00BB 0x0CB	House Control	κ΄ 0x9D 0x045C ℝ 0xAD 0x00AD S 0xBD 0x0405 H 0xCD	0x9E 0x045B 0xAE 0x00AE 0x00AE S 0xBE 0x0455 O 0xCE	0x9F 0x045F 0x0407 i 0xBF 0x0457 DxCF
0x90 0x0452 0xA0 0x00A0 0 0xB0 0x00B0 A 0xC0	0x91 0x2018 y 0xA1 0x040E t 0xB1 0x00B1 S 0xC1 0x0411	0x92 0x2019 y 0xA2 0x045E 0xB2 0x0406 B 0xC2	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 0xC4 0xC4	0x2022 C 0xA5 0x0490 U 0xB5 0x00B5 E 0xC5 0xO415	0x2013 0xA6 0x00A6 0x00A6 0xB6 0x00B6 0xC6	0x2014 \$ 0xA7 0x00A7 0xB7 0x00B7 0x00B7 0x00C7	0x98 C 0xA8 0x0401 C 0xB8 0x0451 N 0xC8	0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 V	0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A	0x9B 0x203A 0xAB 0x00AB 0x00AB 0x00BB 0x00BB 0x0CB	House Control	K 0x9D 0x045C 0xAD 0x00AD 0x00AD 0xBD 0x0405 H 0xCD 0x041D	\$\frac{\hat{h}}{\text{V}}\$ 0x9E 0x045B \text{V}\$ 0xAE 0x00AE \$\frac{0}{\text{S}}\$ 0xBE 0x0455 0 0xCE 0x041E	0x9F 0x045F 0x0407 i 0xBF 0x0457 0xCF 0xCF 0xO41F
0x90 0x0452 0x0452 0x00A0 0x00A0 0x00B0 0x00B0 0x00B0 0x0410 P	0x91 0x2018 y 0xA1 0x040E <u>+</u> 0xB1 0x00B1 5 0xC1 0x0411	0x92 0x2019 ỹ 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 DxC4 0x0414 0x0414	0x2022 C 0xA5 0x0490 L 0xB5 0x00B5 C 0xC5 0x0415 X	0x2013 0xA6 0x00A6 0x00A6 0xB6 0x00B6 X 0xC6 0x0416 U	0x2014 \$ 0xA7 0x00A7 · 0xB7 0x00B7 3 0xC7 0x0417	0x98 E 0xA8 0x0401 E 0xB8 0x0451 V 0xC8 0xO418	TM 0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 ✓ 0xC9 0x0419	0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A	0x9B 0x203A 0xAB 0x00AB 0x00BB 0x00BB 0x00BB 0x041B	В 0x9C 0x045A Ох8С 0x00AC Ох8С 0x00AC Ох8С 0x0458 М 0xCC 0x041C Ь	K 0x9D 0x045C 0x045C 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0x041D 3	\$\hat{\hat{\hat{\hat{\hat{\hat{\hat{\hat	0x9F 0x045F 0x0407 i 0xBF 0x0457 0xCF 0x041F
0x90 0x0452 0x0452 0x00 0x00A0 0x00B0 A 0x00 0x0410 P	0x91 0x2018 y 0xA1 0x040E ± 0xB1 0x00B1 E 0xC1 0x0411 C 0xD1	0x92 0x2019	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 0xC4 0x0414 0x0414	0x2022 C	0x2013 0xA6 0x00A6 0xB6 0x00B6 0xC6 0xC6 0x0416 Ux06	0x2014 \$ 0xA7 0x00A7 · 0xB7 0x00B7 3 0xC7 0x0417 U	0x98 E 0xA8 0x0401 E 0xB8 0x0451 V 0xC8 0xO418 U 0xD8	0x99 0x2122 0xA9 0x00A9 No. 0xB9 0x2116 0xC9 0x0419 UxD9	0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A D 0xDA	0x9B 0x203A 0xAB 0x00AB 0xBB 0x00BB 0xCB 0x041B 0xDB	Hb 0x9C 0x045A □ 0xAC 0x00AC 0xBC 0xBC 0x0458 M 0xCC 0x041C b 0xDC	K 0x9D 0x045C 0x045C 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0x041D 0xDD	\$\hat{\hat{\hat{\hat{\hat{\hat{\hat{\hat	0x9F 0x045F 0x0407 i 0xBF 0x0457 0xCF 0x041F 9
0x90 0x0452 0xA0 0x00A0 0 0xB0 0x00B0 A 0xC0 0x0410 P 0xD0 0x0420	0x91 0x2018	0x92 0x2019	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0xD423	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 QxC4 0x0414 QxD424	0x2022	0x2013 0xA6 0x00A6 1 0xB6 0x00B6 0xC6 0x0416 UD06 0x0426	0x2014 \$ 0xA7 0x00A7 . 0xB7 0x00B7 0x00B7 0xC7 0x0417 U 0xD7 0x0427	0x98 E 0xA8 0x0401 E 0xB8 0x0451 V 0xC8 0x0418 U 0xD8 0x0428	0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 Ŭ 0xC9 0x0419 UxD9 0x0429	0x9A 0x0459 E 0xAA 0x04044 E 0xBA 0x0454 K 0xCA 0x041A 0xDA 0xDA	0x9B 0x203A 0xAB 0x00AB 0xBB 0x00BB 0x00BB 0x041B 0xDB 0xDB 0xDB	Hb 0x9C 0x045A 0xAC 0x00AC j 0xBC 0x0458 M 0xCC 0x041C b 0xDC 0x042C	K 0x9D 0x045C 0x045C 0xAD 0x00AD S 0xBD 0x0405 H 0xCD 0x041D 0xDD 0x042D	\$\frac{\hat{h}}{\mathcal{I}}\$\text{0x9E}\$\text{0x045B}\$\text{0x00AE}\$\text{0x00AE}\$\text{0x00AE}\$\text{0x0455}\$\text{0}\$\text{0x041E}\$\text{0x041E}\$\text{0x041E}\$\text{0x041E}\$\text{0x042E}\$0x	0x9F 0x045F 0x0407 i 0xBF 0x0457 0xCF 0x041F 9x041F 0xDF 0xDF
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0x90 0x0452 0xA0 0x00A0 0 0x00B0 A 0x00 0x0410 P 0xD0 0x0420 0x0430 p	0x91 0x2018 y 0xA1 0x040E + 0xB1 0x00B1 G 0x0411 C 0xD1 0x0421 6 0xE1 0x0431 C	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 V 0xD3 0xD3 0x0423 C 0xE3 0x0433	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 A 0xC4 0x0414 D 0xD4 0xD4 0xD4 0xD4 0xD4 0xD4 0xD4 0xD4	0x2022	0x2013	0x2014 \$ 0xA7 0x00A7 0xB7 0x00B7 3 0xC7 0x0417 U 0xD7 0x0427 3 0xE7 0x0437 U	0x98 E 0xA8 0x0401 E 0xB8 0x0451 N 0xC8 0x0418 U 0xD8 0x0428 N 0xE8 0x0438 U	™ 0x99 0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 Ŭ 0xC9 0x0419 U 0xD9 0x0429 Ŭ 0xE9 0x0439 U U	0x9A 0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A 0x042A K 0xEA 0x043A	0x9B 0x203A 0xAB 0x00AB 0x00AB 0x0BB 0x0BB 0x0BB 0x041B 0xDB 0x042B 0x042B J 0xEB 0x043B	Hb	K 0×9D 0×045C ® 0×AD 0×00AD 0×0405 H 0×CD 0×041D 0×041D 0×042D H 0×ED 0×043D 0×043D	\$\begin{array}{c} \hat{h} & \text{0x9E} & \text{0x045B} & \text{7} & \text{0x00AE} & \text{0x00AE} & \text{0x0455} & \text{0} & \text{0x041E} & \text{0x041E} & \text{0x042E} & \text{0x042E} & \text{0x042E} & \text{0x043E} & \text{0x044E}	0x9F 0x045F 0x0407 i 0xBF 0x0457 DxCF 0x041F 9 0xDF 0x042F 0x043F 9
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■ List of characters exclusive to Thai Stroke Font

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).

	ı	"	#	\$	%	&		()	*	+		_		/
0x20	0x21	0×22	0×23	0x24	0×25	0x26	0×27	0x28	0x29	0x2A	0x2B	0x2C	0x2D	0×2E	0x2F
07120	0x0021				0x0025										
0	1	2	3	4	5	6	7	8	9	:	- ,	<	=	>	?
0x30	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
	_			0x0034	0x0035		_			_		0x003C			0x003F
@	Α	В	C	D	E	F	G	Н	I	J	K	L	M	N	0
0x40	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
0x0040	0x0041	0x0042	0×0043	0×0044	0×0045	0×0046	0x0047	0x0048	0x0049	0x004A	0x004B	0x004C	0x004D	0x004E	0x004F
Р	Q	R	S	T	U	V	W	X	Υ	Z		¥			
0x50	0x51	0x52	0x53	0x54	0x55 0x0055	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
0X0050	UXUU51	-	UXUU53		UXUUSS				0x0059	0X005A		0x005C	UXUUSD	UXUUSE	UXUUSF
	а	b	С	d	е	f	g	h	İ	Ĵ	k	l	m	n	0
0x60	0x61	0x62	0x63	0x64	0x65 0x0065	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
00000	UXUU01	UXUU62	0x0063		0x0065	0x0000	0x0067	UXUU08	0x0009	UXUUUA	UXUU0B	UX006C	1 1	~	UXUUUF
p	q	r	S	t	u	V	W	X	У	Z	{		}		
0x70	0x71	0x72	0x73	0×74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
0x0070	0x0071	0x0072	0x0073	0x0074	0x0075	0x0076	0x0077	0x0078	0x0079	0x007A	0x007B	0x007C	0x007D	0x007E	0x007F
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
0x20AC	6	,	66	77	0x2026										
	_	,		''	-	_	_								
0x90	0x91	0×92	0×93	0×94	0×95	0x96	0×97	0x98	0×99	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F
	0x2018	0x2019	0x201C	0x201D	0×2022	0x2013	0x2014								
	ก	ข	ๆ	ค	ฅ	ฆ	9	จ	ฉ	ข	ๆ	ณ	กเ	ก	ก
0xA0	0xA1	0хA2	0хA3	0xA4	0xA5	0xA6	0xA7	0×A8	0xA9	0xAA	رت 0xAB	0xAC	្ស 0xAD	رز 0xAE	ال 0xAF
					0xA5										
0,007,10											_		_		_
ฐ	ฑ	କ୍ଷ୍ୟ	ี ณ	୭	ଡ଼ା	ា ព	ท	ิ อิ	น	ิบ	ป	ผ	ผ	M	ฟ
0xB0	0xB1	0xB2	0xB3	0xB4	0xB5	0xB6	0xB7	0xB8	0xB9	0xBA	0xBB	0xBC	0xBD	0xBE	0xBF
0x0E10	0x0E11	0x0E12	0x0E13	0x0E14	0x0E15	0x0E16	0x0E17	0x0E18	0x0E19	0x0E1A	0x0E1B	0x0E1C	0x0E1D	0x0E1E	0x0E1F
ภ	ม	ย	ร	ฤ	ล	ฦ	J	ମ	Ъ	ส	ห	พ้	อ	ฮ	ี ๆ
0xC0	0xC1	0xC2	0xC3	0xC4	0xC5	0xC6	0xC7	0xC8	0xC9	0xCA	0xCB	0xCC	0xCD	0xCE	0xCF
0x0E20	0x0E21	0x0E22	0x0E23	0x0E24	0x0E25			0x0E28	0×0E29	0x0E2A	0x0E2B	0x0E2C	0x0E2D	0x0E2E	0x0E2F
66	a	า	ำ	_	a	a	ิข	,	บ						₿
0xD0	0xD1	0xD2	0xD3	0xD4	0xD5	0xD6	0xD7	0xD8	0xD9	0xDA	0xDB	0xDC	0xDD	0xDE	0xDF
0x0E30	0x0E31	0x0E32			0x0E35	0x0E36	0x0E37	0x0E38	0x0E39						0x0E3F
l	ll	Ĩ	ใ	1	า	ๆ		•		ബ	+	6	0	ε	0
0xE0	0xE1	0xE2	0xE3	0xE4	0xE5	0xE6	0xE7	0xE8	0xE9	0xEA	0xEB	0xEC	0xED	0xEE	0xEF
UxUE40	UxUE41	UxUE42	UxUE43	UxUE44	0x0E45	UxUE46	UxUE47	UxUE48	UxUE49	UxUE4A	UxUE4B	UxUE4C	UxUE4D	UxUE4E	UxUE4F
0	ၜ	ந	<u>ள</u>	۵.	ھ	9	ബ	ಡ	cc,	ଧା	C~	. = .			
0xF0	0xF1	0xF2	0xF3	0xF4	0xF5	0xF6	0xF7	0xF8	0xF9	0xFA	0xFB	0xFC	0xFD	0xFE	0xFF
UXUE 50	UXUEDI	UXUE52	UXUE53	UXUE54	0x0E55	UXUE 56	UXUE5/	UXUE58	UXUE59	UXUESA	oxoe98				

6.2.2 Setup Procedure



- Japanese Standard Font, English 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 start with the text setup.
- On GP-32** Series or ST Series, English Standard Font and English Stroke Font must always be installed but the Japanese Standard Font can be deleted.
- Please refer to the Settings Guide for details.

 **B.13.1 Text Settings Guide" (page 8-91)
- For more information about text, please refer to "8.3 Writing Text" (page 8-23).

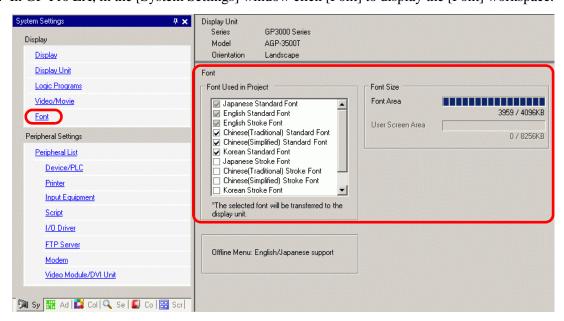
These fonts are used normally.

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

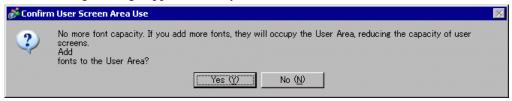
1 In GP-Pro EX, in the [System Settings] window click [Font] to display the [Font] workspace.



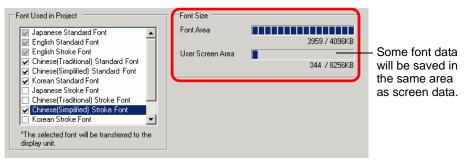
NOTE

- If the [System Settings] tab is not displayed in the workspace, on the [View (V)] menu, point to [Workspace (W)], and then click [System Settings (S)].
- 2 From [Font Used in Project], select the [Chinese (Simplified) Stroke Font] check box to add the font.

3 The following message appears when you select the check box.

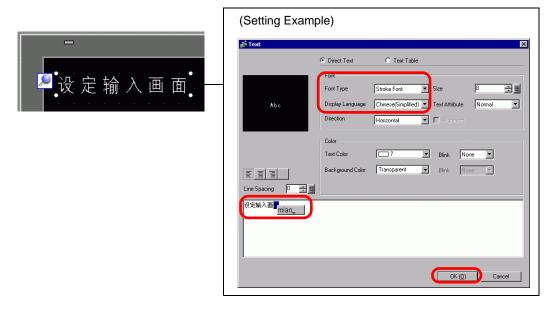


Click [Yes] when you want to use the User Screen Area when fonts cannot fit into the [Font Area], or, as in step 4, when you will adjust the font area. This will confirm the User Screen Area is also used for fonts.



If you click [No], adding the font is cancelled.

- 4 Clear check boxes for fonts you will not use. This allows more free space in the Font Area.
- 5 For example, add text in Simplified Chinese to a screen. This example assumes you have enabled the Chinese (Simplified) font in your operating system. 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 the system.



To add the font, click [Yes (Y)].

If you click [No(N)], 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

"MS Gothic"

Image Font

"Helvetica/Bold"





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

■ Text Features

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, point to [Information (I)], [Project Information (I)], [Send Data], and then click [Send Size] to verify you are not using too many Image Fonts.

NOTE

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

"1.3 Supported Features" (page 1-5)

6.3.2 Setup Procedure

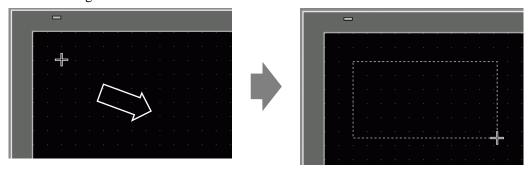


• Please refer to the Settings Guide for details.
**B.13.1 Text Settings Guide" (page 8-91)

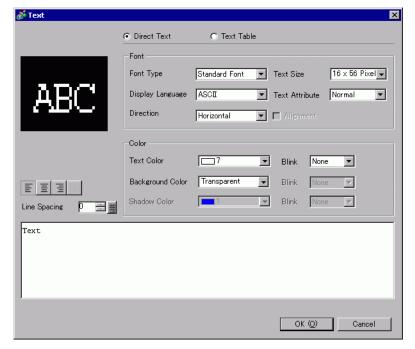
Use the "Image Font". You can use bold and italics as well as the standard style. "Arial/Italic"



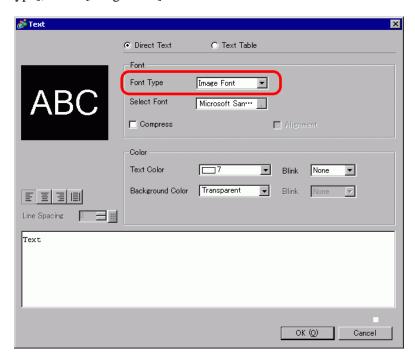
1 From the [Draw (D)] menu, select [Text (S)] or click A from the toolbar. Click on the base screen and drag to the desired size.



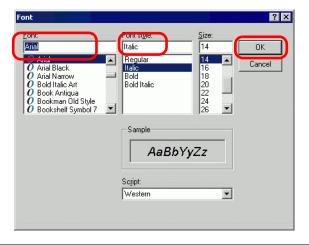
2 Right-click to release the draw mode. Double-click the new text. The following dialog box appears.



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



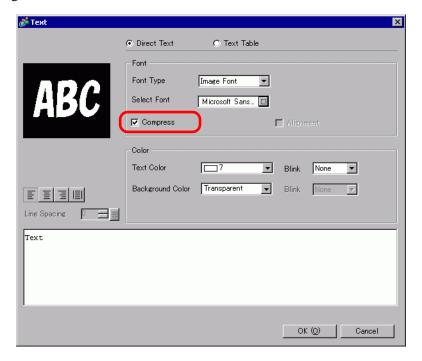
- 4 Click the [Select Font] button to display the setting dialog box.
- 5 Set the [Font], [Font Style], and [Size] and click [OK]. For example, Arial, Italic, and 14.



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.

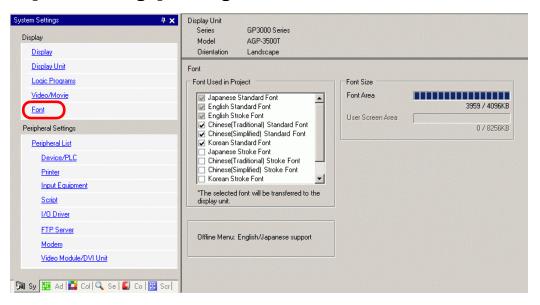


NOTE

- [Compress] is recommended for reducing the project file volume.
- 7 Select the colors you want and input text within the Input Text border.
- 8 Click [OK] and the setting are completed.



6.4 [Font Settings] Settings Guide



Setting		Description
Fo	nt	Configure font settings.
	Font Used In Project	 Select the fonts used in project files. NOTE Japanese Standard Font, English Standard Font, and English Stroke Font are fixed. On -32**Series or the ST Series, [English Standard Font] and [English Stroke Font] must always be installed but the [Japanese Standard Font] can be deleted.
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 use the Font Area. When using a font other than [Japanese Standard Font], [English Standard Font] or [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 Supported Features" (page 1-5)

6.5 Restrictions

6.5.1 Restrictions for Standard Font and Stroke Font

- When [ASCII] is selected for the [Standard Font] under [Display Language], select a text size from the three fixed sizes: [6 x 10 pixels], [8 x 13 pixels], or [13 x 23 pixels].
- When the [Character Size] is [6 x 10 pixels] 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 text for the part. 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 and ST3000 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.
- When Standard Font is selected, special characters specific to languages that are not supported by Standard Font cannot be displayed properly.
 Also, when the fixed size (6 x 10, 8 x 13, 13 x 23) is selected, characters other than the single-byte characters cannot be displayed properly.
- You can enter text in [Comments], etc. using Unicode while pressing the [Alt] key, but you may not be able to enter Thai characters for the following settings using this method.
 - Enter [Comments] when changing the keypad attributes
 - Enter [Comments] when creating new a VM/DVI Unit Window and changing the keypad attributes
 - Enter text for the [Display/CSV Save] Tab and the [Printing] tab in the sampling settings
 - Input message for Alarm settings
 - Input [Comments] when changing the [ID] of a D-Script
 - Built-in Functions of the D Script
 - Enter in [Find Comments] and [Search for Characters] in the Search Window
 - Enter rung comments in the logic screen

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].).