SLCS

(Samsung Label Command Set)

Target Models - SRP-770/SRP-770II/SRP-780

Programming Manual

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<u>Contents</u>

Chapter1. Programming Reference Chapter2. Detail Description Chapter3. Programming Example

CH1. Programming Reference

In this chapter, the basic concept of SLCS and some information necessary for the programmer to use SLCS will be explained. Please read this part before starting programming for efficient and easy use of BIXOLON Label Printers.

1. Image Buffer Configuration

1) Maximum size

A) When using Double Buffering Function

832dots × 1216dots (104mm × 152mm) = 4 inch × 6 inch

B) When using Single Buffering Function (default)

832dots × 2432dots (104mm × 304mm) = 4 inch × 12 inch

2) Dot size : 0.125mm(W) × 0.125mm(H) (203dpi)



832 dots(104mm = 4inch)

Image Buffer

2. Information for calculating position on image buffer

Inch	mm	dots	Resolution
0.04	1	8	
0.40	10.00	80	
1.00	25.40	203	
1.25	31.75	254	
1.50	38.10	305	
1.75	44.45	355	202 4
2.00	50.80	406	203 api
2.25	57.15	457	
2.50	63.50	508	
2.75	69.85	556	
3.00	76.20	610	
4.00	101.6	813	

1) Relation between position and number of dots

2) Font Information

Font Size (pt)	Width × Height (dots)
6	09 ×15
8	12 × 20
10	16 × 25
12	19 × 30
15	24 × 38
20	32 × 50
30	48 × 76
Korean 1	16 × 16 (ascii:9×15)
Korean 2	24 × 24 (ascii:16×25)
Korean 3	20 × 20 (ascii:12×20)
Korean 4	26 × 26 (ascii:16×30)
Korean 5	20 × 26(ascii:16×30)

3) Example of text and barcode



4) Example of rotation



3. Using Peel- Off (Dispenser) function

A peeler(liner dispenser) module is available with BIXOLON label printers and the peel-off function is switched on and off by slide switch which is located in peeler module. The factory setting is switched off. When the peel-off function is enabled, the next label can not be printed out until the peeled off label is removed from the dispenser module.

Caution

When the media is inserted in the dispenser, please be careful that the peel-off sensor is not covered with the label after closing the dispenser. Otherwise the printer will not start printing. In peel off mode, the printer starts printing just when the label is not checked by the sensor. If a label is sensed by the peel off sensor, the printer waits for the label to be removed.



4. LED Displays.

1) When the Green color keeps on,

- Printer is ready to print and is waiting for data reception from host.

2) When the Red color blinks,

A) Cover open error. Printer cover is not closed.

B) Cutter error. Sensor is damaged or jam occurred.

3) When the Orange color blinks,

- Media is not installed in the printer.

4) When the Green color blinks,

A) TPH is over-heated.

B) The printer is starting gap sensor auto-calibration mode.

5) When the Orange color keeps on,

- Auto-sensing failure. The media gap is not detected. That means printer can't sense the installed media or paper jam occurred.

6) When the Red color keeps on,

- Printing job is paused by user. Please push feed button to restart print job.

5. Commands List

Command	Name	Description	Page
1. Command	ls for Designing Label		
Т	Text	Draw text string on the image buffer	
B1	1d barcode	Draw 1D Barcode on the image buffer	
B2	2d barcode	Draw 2D Barcode on the image buffer	
BD	Block Draw	Draw line or box on the image buffer	
CD	Circle Draw	Draw circle on the image buffer	
CS	Character Set selection	Select international code table	
Р	Print	Start printing the content of image buffer	
2. Media & I	Buffer related Commands		
SM	Set Margin	Set the marginal value of the image buffer	
SL	Set label Length	Set length of label	
SW	Set label Width	Set length of label	
SB	Set Buffer mode	Enable or Disable double buffering function	
СВ	Clear Buffer	Clear image buffer	
3. Printer Se	etting Commands		
SS	Set Speed	Set printing speed	
SD	Set Density	Set printing density from level 0 to 20	
SO	Set Orientation	Set printing direction	
SP	Set serial Port	Set serial port configurations.	
4. Variable r	elated Commands		
SC	Set Counter	Used in Template sequence	
AC	Set Counter	Used in normal mode	
SV	Set Variable	Used in Template sequence	
?	Get variables	Get content of variables and counters.	
PV	Print with Variable	Use this command in Template	

Command	Description	Remarks	Page
5. Template	Related Commands		
TS	Template store Start	All contents between these commands are saved	
ТЕ	Template store End	in printer memory.	
TR	Template Recall	Load and reuse the stored Template.	
TD	Template Delete	Delete stored Template from printer memory	
TI	Template Information	Print the list of currently stored Templates.	
6. Image Dat	a Related Commands		
IS	Image Store	PCX format image file can be stored.	
IR	Image Recall	Load and reuse the stored image	
ID	Image Delete	Delete stored image	
II	Image Information	Print the list of currently stored images	
LD	Bitmap data draw	Draw bitmap image data on the image buffer	
ВМР	BMP format file drawDraw BMP format file on the image buffer		
7. Download	able Font Related Commands	5	
DS	Downloaded font Store	Any size of fonts can be used	
DD	Downloaded font Delete	Delete downloaded font.	
DI	Downloaded font Information	Print the list of currently stored images	
8. The Other	S		
a	Reset printer	Initialize the printer	
PI	Printer Information	Print current setting of printer	
CUT	Enable/Disable Cutter optionCutting is executed after Printing is finished if cutting option is enabled by this command.		
^ср	Check Printer Status	eck Printer Status Return 2 bytes status values to host.	
^cu	Check Printer Status	Return 1 byte status value to host.	

6. Programming Considerations

1. All commands are case-sensitive and some commands require one or more parameters and 'Data'.

2. Command Conventions Tp1,p2,p3,p4,p5,p6,p7,p8,p9,'TEXT DATA' Parameters Command Specific Data

Command

3. Each command line must be terminated with a 'CR'(0Dh, 13). The 'LF'(0Ah,10) is ignored.

4. The commands which draw text, barcode, lines... just draw on the image buffer, they do not print. The printer will start to print when the 'P' command shows.

Caution

The 'P' command must be terminated by 'CR'(0x0d). If not, the printer will not start pint till 'CR' shows.

CH2. Detail Description

- 1. Commands for Designing Labels - T, B1, B2, BD, CD, CS, P
- 2. Media & Buffer related Commands - MT, SM, SL, SW, CB, SB
- 3. Printer Setting Commands - SS, SD, SO, SP
- 4. Variables Related Commands - SC, SV, ?, PV
- 5. Template Related Commands - TS, TE, TR, TD, TI
- 6. Image Related Commands - IS, IR, ID, II, LD, BMP
- 7. Download font Related Commands - DS, DD, DI
- 8. The Others - @, PI, CUT, ^cp

1. Commands for Designing a Label.

These commands are used to design a label by providing text, barcode, line, box... and to print content of image buffer on media.

1) T

Draw 'Text String' on the image buffer.

2) B1

Draw '1D Barcode' on the image buffer.

3) B2

Draw '2D Barcode' on the image buffer.

4) BD

Draw 'Line, Block, Box & Slope' on the image buffer.

4) CD

Draw 'Circle' on the image buffer.

6) CS

Set international character set.

7) P

Start printing the content of image buffer.

<u>T – Text String</u>

Description

Draw text string on the image buffer

Syntax

Tp1,p2,p3,p4,p5,p6,p7,p8,p9(,p10), **'DATA'**

Parameters

- **p1** : Horizontal position (X) [dot]
- **p2** : Vertical position (Y) [dot]
- **p3** : Font selection

Value	Font Size(pt)	Width × Height(dots)
0	6	9 × 15
1	8	12×20
2	10	16 × 25
3	12	19 × 30
4	15B	24 × 38
5	20B	32×50
6	30B	48×76
а	KOREAN 1	16 × 16 (ascii 9×15)
b	KOREAN 2	24 × 24(ascii 16×25)
с	KOREAN 3	20 × 20(ascii 12×20)
d	KOREAN 4	26 × 26(ascii 16×30)
e	KOREAN 5	20 × 26(ascii 16×30)

A to Z are assigned to 'Downloaded font'. Refer to 'DS' command

& B means bold type.

- $\textbf{p4}: Horizontal multiplier: 1 \sim 4$
- p5: Vertical multiplier : $1 \sim 4$
- **p6** : Right-side text spacing [dot]

Plus(+)/Minus(-) option can be used. Ex) 5, +3, -10...

p7: Rotation

Value	Rotation
0	No Rotation
1	90 degrees
2	180 degrees
3	270 degrees

p8 : Reverse printing

N : Normal printing

R : Reverse printing

p9 : Bold

N : Normal

B : Bold

p10 : Text Alignment(Optional)

F : p1 means the position of the first character in text string.(Left alignment)

- L: p1 means the position of the last character in text string.(Right alignment)
- **.** This parameter is for alignment of text lines.

'DATA' : The various data types can be used in the data field as followings.

- 1) Fixed text string : ' Text String'
- 2) Variables declared in template by SV command : Vnn
- 3) Counters declared by the SC command : Cn
- * 1), 2) and 3) can be mixed together

Example

T50,100,3,1,1,0,0,N,N,'Samsug Label Printer' T50,100,3,1,1,0,0,N,N,'Manufacturer :'*V00* T50,100,3,1,1,0,0,N,N,*V00* T50,100,3,1,1,0,0,N,N,'Manufacturer :'*C0* T50,100,3,1,1,0,0,N,N,*C0*

If you want to print ' or \ then you must type like \' or \\.

All available fonts in SRP770.

Resident	n3	n/	n5	DQ	Result		/ailable		
Fonts	P2	PT	p5	15	Fonts	Fonts	(Sorted)		
				1	1	N	6	No	Fonts
		1		В	6B	1	6		
		2	2	N	12	2	6B		
6	0	2	2	В	12B	3	8		
0	0	2	2	N	18	4	8B		
		5	5	В	18B	5	10		
		4	1	N	24	6	10B		
		4	4	В	24B	7	12		
		1	1	N	8	8	12B		
		1		В	8B	9	15B		
		2	2	N	16	10	16		
0	1	2		В	16B	11	16B		
0		2	2	N	24	12	18		
		3	3	В	24B	13	18B		
		4	4	N	32	14	20		
		4	4	В	32B	15	20B		
		1	1	N	10	16	24		
		1		В	10B	17	24B		
		2		N	20	18	30		
10		2	2	В	20B	19	30B		
10	2		3	N	30	20	32		
		3		В	30B	21	32B		
		4	4	N	40	22	36		
				В	40B	23	36B		
		1		N	12	24	40		
			I		В	12B	25	40B	
		2	2	N	24	26	48		
10		2		В	24B	27	48B		
12	3		3	N	36	28	60B		
		3		В	36B	29	80B		
			4	N	48	30	90B		
		4		В	48B	31	120B		
		1	1	В	15B				
15B 4		2	2	В	30B				
	4	3	3	B	45B				
		4	4	В	60B				
	1	1	1	B	20B				
		2	2	B	40B				
20B	5	3	3	B	60B				
		4	4	B	80B				
		1	1	B	30B				
	6	2	2	B	60B				
30B		30B 6	3	3	B	90B			
		4	4	B	120B				
	1	· · · · · · · · · · · · · · · · · · ·	<u> </u>						

Example

СВ

SM20,20 T26,20,0,0,0,0,0,N,N,'Font- 6 pt' T26,49,1,0,0,0,0,N,N,'Font - 8 pt' T26,81,2,0,0,0,0,N,N,'Font - 10 pt' T26,117,3,0,0,0,0,N,N,'Font - 12 pt' T26,156,4,0,0,0,0,N,N,'Font - 15 pt' T26,200,5,0,0,0,0,N,N,'Font - 20 pt' T26,252,6,0,0,0,0,N,N,'Font - 30 pt' P1

Result

Font – 6 pt Font – 8 pt

Font – 10 pt

Font – 12 pt

Font – 15 pt Font – 20 pt

Font – 30 pt

<u>B1 – 1 Dimensional bar code</u>

Description

Draw 1D Barcode on the image buffer

Syntax

B1*p1,p2,p3,p4,p5,p6,p7,p8(,p9),* **`DATA**'

Parameters

- p1: Horizontal position (X) [dot]
- **p2** : Vertical position (Y) [dot]
- **p3** : Barcode selection

р3	Barcode	р3	Barcode
0	Code39	5	UPC-A
1	Code128	6	UPC-E
2	I2of5	7	EAN13
3	Codabar	8	EAN8
4	Code93	9	UCC/EAN128

p4 : Narrow bar width [dot]

- p5 : Wide bar width [dot]
- **p6** : Bar code height [dot]
- p7: Rotation

Value	Rotation
0	No Rotation
1	90 degrees
2	180 degrees
3	270 degrees

- **p8** : HRI (Human Readable Interpretation)
 - 0 : Not printed

1 : Below the bar code(Font Size : 1)

2 : Above the bar code(Font Size : 1)

3 : Below the bar code(Font Size : 2)

4 : Above the bar code(Font Size : 2)

5 : Below the bar code(Font Size : 3)

6 : Above the bar code(Font Size : 3)

7 : Below the bar code(Font Size : 4)

8 : Above the bar code(Font Size : 4)

(p9) : quiet zone width(optional) : $0 \sim 20$

♣ Quiet zone is added to the front and end of the barcode for safe scanning.
Because of the quiet zone, the barcode seems to be seen drawn in incorrect position. If p9 is not used, the printer automatically sets parameter to 12.

Quiet zone with = p9 × narrow bar width(p4)

'DATA' : The various data types can be used in the data field as followings.

- 1) Fixed text string : ' Text String'
- 2) Variable declared in template by SV command : Vnn
- 3) Counter declared by the SC command : Cn
- 1), 2) and 3) can be mixed together

Example

B178,196,0,2,6,100,0,0,'1234567890'

B178,196,0,2,6,100,0,0,V00

B178,196,0,2,6,100,0,0,*C0*

Example

CB

SM20,20

B1<u>78,196</u>,0,2,6,100,0,0,'1234567890'

B1<u>50,468</u>,0,4,10,200,0,0,'1234567890' P1 // Caution : The position is not (178,196) but (78,196)

Result



<u>B2 – 2 Dimensional bar code</u>

Description

Draw 2D Barcode on the image buffer

Syntax

B2*p1,p2,p3*.....'**DATA**'

Parameters

- **p1** : Horizontal position (X) [dot]
- **p2** : Vertical position (Y) [dot]
- **p3** : 2D barcode selection

р3	2D Barcode
М	MaxiCode
Р	PDF417
Q	QR Code

****** Following parameters(p4, p5 ,Data) are barcodes-specific.

See the following pages for details about 'Maxicode' and 'PDF417'.

Maxicode(When p3 is M)

- **p1** : Horizontal position (X) [dot]
- **p2** : Vertical position (Y) [dot]
- p3 : M (means 'Maxicode')
- **p4** : Mode selection

p4	Rotation
0	Mode0
2	Mode2
3	Mode3
4	Mode4

'DATA' : Data format is dependent on 'Mode'

Mode	Data Format
0	
2 or 3	'cl,co,pc,lpm'
4	ʻlpm'

cl : Class Code(3 digits)

co : Country Code(3digits)

Mode2 : Numeric Characters

Mode3 : International Characters

pc : Postal Code

lpm : Low priority message(data)

Example

1)Mode 0

*B2*200,200,M,0,'999,840,06810,7317,THIS IS A TEST OF MODE 0 STRUCTURED CARRIER MESSAGE ENCODING. THIS IS AN 84 CHAR MSG'

2)Mode 2

*B2*200,200,M,2,'999,840,06810,7317,THIS IS A TEST OF SAMSUNG LABEL PRINTER SRP770. MODE 2 ENCODING. THIS IS AN 84 CHAR.'

3)Mode3

*B2*200,200,M,*3*,'999,056,B1050,7317,THIS IS A TEST OF SAMSUNG LABEL PRINTER SRP770. MODE 3 ENCODING. THIS IS AN 84 CHAR.'

4)Mode4

*B2*200,200,M,4,'THIS IS A 93 CHARACTER CODE SET A MESSAGE THAT FILLS A MODE 4, UNAPPENDED, MAXICODE SYMBOL...'

PDF417(When p3 is P)

- **p1** : Horizontal position (X) [dot]
- **p2** : Vertical position (Y) [dot]
- **p3** : P (means 'PDF417')
- **p4** : Maximum Row Count : 3 ~ 90
- p5: Maximum Column Count : $1 \sim 30$
- **p6** : Error Correction level

p6	EC Level	EC Codeword
0	0	2
1	1	4
2	2	8
3	3	16
4	4	32
5	5	64
6	6	128
7	7	256
8	8	512

p7 : Data compression method

р7	Data Type	Compression
0	Text	2 Characters per codeword
1	Numeric	2.93 Characters per codeword
2	Binary	1.2 Bytes per codeword

p8 : HRI

- 0 : Not Printed
- 1 : Below the barcode
- p9 : Barcode origin point
 - 0 : Center of barcode
 - 1 : Upper left corner of barcode(default)
- p10: Module Width : $2 \sim 9$
- **p11** : Bar Height : 4 ~ 99
- p12 : Rotation

Value	Rotation
0	No Rotation
1	90 degrees
2	180 degrees
3	270 degrees

'DATA' : ASCII data or Binary data.

Example

B2<u>100,750</u>,P,30,5,0,0,1,1,3,10,0,'Samsung Label Printer SRP770' // The position is (100,750)

QR Code(When p3 is Q)

- **p1** : Horizontal position (X) [dot]
- **p2** : Vertical position (Y) [dot]
- p3 : Q (means 'QR Code')
- **p4** : MODEL selection
 - 1: MODEL1
 - 2 : MODEL2
- **p5** : ECC Level

р6	Recovery Rate
L	7%
M	15%
Q	25%
Н	30%

- **p6** : Barcode Size : 1~4
- **p7** : Rotation

Value	Rotation
0	No Rotation
1	90 degrees
2	180 degrees
3	270 degrees

'DATA' : ASCII data or Binary data.

Example

*B2*200,100,Q,2,M,4,0,'ABCDEFGHIJKLMN1234567890'

// The position is (200,100)

BD – Block Draw

Description

Draw Line, Block, Box & Slope on the image buffer

Syntax

BD*p*1,*p*2,*p*3,*p*4,*p*5(,*p*6)

Parameters

- **p1** : Horizontal start position (X) [dot]
- **p2** : Vertical start position (Y) [dot]
- p3 : Horizontal end position (X) [dot]
- p4 : Vertical end position (Y) [dot]
- **p5** : Options

р5	Туре	Additional p6
0	Line Overwriting	Not necessary
Е	Line Exclusive OR	Not necessary
D	Line Delete	Not necessary
S	Slope(a oblique line)	Thickness
В	Box	Thickness

+ If p5 is S or B, then additional p6 must follow p5.

Example

1. Start and end position



2. Overwriting mode(when p5 is O)



3. Exclusive OR mode(when p5 is E)



4. Delete block mode(when p5 is D)



5. Slope block mode(when p5 is S)



6. Draw box mode(when p5 is B)



CD – Circle Draw

Description

Draw Circle on the image buffer

Syntax

CD*p1,p2,p3,p4*

Parameters

- **p1** : Horizontal start position (X) [dot]
- **p2** : Vertical start position (Y) [dot]
- **p3** : Circle Size Selection

Value	Diameter (mm)	Width × Height(dots)
1	5	40×40
2	7	56×56
3	9	72×72
4	11	88×88
5	13	104×104
6	21	168×168

p4 : Multiplier : 1 ~ 4

Example

*CD*100,200,2,1



CS – Character Set selection

Description

To select international character set and code table.

Syntax

CSp1,p2

Parameters

p1 : International Character Set

p1	Country
0	U.S.A
1	France
2	Germany
3	U.K
4	Denmark I
5	Sweden
6	Italy
7	Spain I
8	Norway
9	Denmark II
10	Japan
11	Spain II
12	Latin America
13	Korea
14	Slovenia/Croatia
15	China

p2 : Code Table

p2	Code Table	Language
0	<i>PC437</i>	U.S.A
1	PC850	Latin1
2	PC852	Latin2
3	PC860	Portuguese
4	PC863	Canadian French
5	PC865	Nordic
6	PC1252	Latin I
7	PC865 + PC1252	European Combined
8	PC857	Turkish
9	PC737	Greek
10	PC1250	Latin 2
11	PC1253	Greek
12	PC1254	Turkish
13	PC855	Cyrillic
14	PC862	Hebrew
15	PC866	Cyrillic
16	PC1251	Cyrillic
17	PC1255	Hebrew
18	PC928	Greek

♣ Default Setting is U.S.A standard (p1=0 and p2=0).

European Combined Page								
Address	Code Page							
0x80	Euro Currency							
0x81 ~ 0x9f	PC865							
0xA0 ~ 0xff	PC1252							
•								

					Inte	ernatio	nal Cha	aracter	Set				
Country	Hex	23h	24h	40h	5Bh	5Ch	5Dh	5Eh	60h	7Bh	7Ch	7Dh	7E
	Dec	35	36	64	91	92	93	94	96	123	123	125	126
U.S.A		#	\$	@	[₩]	^	`	{		}	2
France		#	\$	à	o	Ç	§	^	`	é	ù	è	
Germany		#	\$	§	Ä	Ö	Ü	^	`	ä	ö	ü	
U.K.		£	\$	@	[₩]	^	`	{	I	}	~
Denmark I		#	\$	@	Æ	Ø	Å	^	`	æ	ø	å	~
Sweden		#	\$	É	Ä	Ö	Å	Ü	É	ä	ö	å	ü
Italy		#	\$	@	o	₩	é	^	ù	à	ò	è	ì
Spain		Pts	\$	@	i	Ñ	ć	^	`		ñ	}	~
Norway		#		É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Denmark II		#	\$	É	Æ	Ø	Å	Ü	é	æ	Ø	å	ü

		0	1	2	3	4	5	6	7	8	9	Α	B	C	D	Е	F
ASCII	0 0 1 16						C	Conti	rol C	hara	icter	S					
Code	2 32		ļ	"	#	\$	%	&	ı	()	*	+	,	-		1
	3 48	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
0~31 : Control Code	4 64	@	Α	В	С	D	Е	F	G	н	Ι	J	к	L	М	N	0
32~127 : Alphanumeric	5 80	Р	Q	R	s	т	U	v	w	х	Y	z]]	^	_	`
	6 96	а	b	с	d	e	f	g	h	i	j	k	1	m	n	0	р
	7 112	q	r	s	t	u	v	w	x	у	z	{		}	~		

* 0 : PC437(U.S.A)

	HEX	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	E	F
HEX	BIN	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	NUL	DLE	SP	0	@	P	`	p	Ç	É	á		L	ш	α	=
Ľ	0000	00	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
1	0001		XON	<u> </u>	1	Α	Q	а	٩	Ü	æ	í	W	<u> </u>	〒	β	±
		01	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
2	0010			и 	2	В	R	b	r	é	Æ	ó	III		π	Г	≤
		02	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
3	0010		XOFF	%	3	C	S	C	S	â	Ô	Ú		- 		π	2
		03	19	35	5 51	67	83	99	115	131	147	163	179	195	211	227	243
4	0100	EQT		\$	4	D	T	d	t	ä	Ö	ñ	-		E	Σ	ſ
		04	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
5	0101	ENQ		%	5	E	U	e	u	à	Ò	Ň	=	+	F	σ	J
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* 1 : PC850(LATIN 1)

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* 2 : PC852(LATIN 2)

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* 3 : PC860(PORTUGUESE)

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* 4 : PC863(CANADIAN FRENCH)

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* 5 : PC865(NORDIC)

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* 6 : PC1252(WINDOWS LATIN 1)

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* 7 : PC865 + PC1252(EUROPEAN COMBINED)

0x80 : Euro Currency, 0x81~0x9f : PC865, 0xA0~0xFF : PC1252

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			130		146		162		178	~	194	4	210		226		242
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4	0100	ä		Ö		Ø				A		0		ä		Ô	
			132		148	**	164		180	8	196	~	212		228	~	244
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6	0110	а	1.24	u	1.50	i	1.00		102	Æ	100	0		æ		0	246
		-	134	2	150	6	166		182	C	198		214		230		246
7	0111	Ç	125	u	1.51	8	1.07	•	102	Ç	100	×	015	Ç	0.01	÷	0.17
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8	1000	е	136	1	152		168	\$	184		200	Ø	216	e	232	ø	248
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9	1001	C	137		153		169		185		201	U	217		233	u	249
		è	157	Ü	100	а	105	0	105	Ê	201	Ú	217	ê	235	ú	215
A	1010	C	138		154		170		186		202	U	218		234	ч	250
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* 8 : PC857(TURKISH)

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3	0011	â		Ô		ú						E		0	1	3⁄4	
			131		147		163		179		195		211		227		243
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			132		148	~	164	,	180		196		212	~	228		244
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А	1010	e	100				1.70		100	==		Г				-	
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* 9 : PC737(GREEK)

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* 10 : PC1250(WINDOWS LATIN 2)

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* 11 : PC1253(GREEK)

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9	1001	700	127		153		160	11	185	L	201		217	ι	222	ω	240
			137		155		109	'т	105	12	201	Ϋ́	217	1.4	233	ÿ	249
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* 12 : PC1254(TURKISH)

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* 13 : PC855(CYRILLIC)

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* 14 : PC862(HEBREW)

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D	1101	-	141		157	•	173		189		205		221	Т	237	-	253
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E	1110		142	-	158		174		190		206		222		238		254
		7		f		»		-		1				\cap		NBS	P
F	1111		143		159		175		191		207		223		239		255

* 15 : PC866(CYRILLIC)

	HEX		8		9		A		В		С		D		E		F
HEX	BIN	1	000	1	001	1	010	1	011	1	100	1	101	1	110	1	111
	0000	A		Р		а								р		Ë	
	0000		128		144		160		176		192		208		224		240
4	0004	Б		С		б				<u> </u>		-		С		ë	
'	0001		129		145		161	1	177	1	193		209	1	225	1	241
	0040	В		Т		в				-				т		E	
2	0010		130		146	1	162		178		194		210		226	1	242
	0044	Γ		У		Г	1			F		L		У		E	
3	0011		131		147		163		179		195	1	211		227	1	243
		Д		Φ		Д		-		—		L		ф		Ï	
4	0100		132		148		164		180		196		212		228	1	244
_		E		Χ		е		=		+		F	1	x		ï	
5	0101		133		149		165		181		197	1.	213		229		245
		Ж		Π		ж		-		⊨				II		ў	
6	0110		134		150		166		182	1 '	198	1"	214		230		246
		3		Ч		з		_		⊩		+		ч		V	
7	0111		135		151		167	"	183		199	"	215	-	231		247
		И		III		и		-		L		+		TTT		•	
8	1000		136		152		168	1	184		200	1	216		232		248
		Й		TTT		й		_		Ē				TTT		•	
9	1001	11	137		153		169	"	185		201		217	1	233		249
		К		ъ		к						-		ъ			
A	1010	10	138		154	, IC	170	"	186		202	1	218		234		250
		Π	100	ы	101	π		_	100		202		210	ы	201	1	200
в	1011	51	139		155	51	171	"	187		203		219	DI	235	V	251
		ЪЛ	100	Ь	100	ъл			107		200	_	210	Б	200	No	201
С	1100	111	140		156	IVI	172		188		204		220	Б	236		252
		ц	140	2	150	тт	172		100		204		220	n	230	77	252
D	1101	п	141	3	167	н	172		190	_	205		221	Э	227	×	252
		\cap	141	TO	157	0	175		109		205		221	-	231		255
E	1110	0	4.40	Ю	450	0	474		400		000		000	Ю	000		05.4
		-	142	а	158		1/4		190		206		222		238		254
F	1111	11		К	4 5 5	п	4==	Г	4.6.1					Я		NBS	P
			143		159		175		191		207		223		239		255

* 16 : PC1251(CYRILLIC)

	HEX		8		9		А		В		С		D		E		F
HEX	BIN	1	000	1	001	1	010	1	011	1	100	1	101	1	110	1	111
	0000	Th		ħ		NBS	P	0		A		Р		а		р	
	0000		128		144		160		176		192]	208		224		240
	0004	Γ́		"		Ў		±		Б		С		б		С	
	0001		129	1	145	1	161		177		193	1	209	1	225		241
				,		ў		Ι		В		Т		в		т	
2	0010		130		146		162		178		194		210		226		242
		ŕ		"		J		i		Γ		У		Г		v	
3	0011		131		147		163		179		195		211		227		243
				"		¤		Т'		Л		Φ		л		ф	
4	0100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	132		148		164	-	180		196	-	212		228	P	244
				•		Г		u		E		X		е		x	
5	0101		133		149	1	165		181		197		213		229		245
		+		_		!		¶		ж		TT		ж		TT	
6	0110	<u> </u>	134		150		166		182		198	-	214	510	230	~	246
		±				8		•		3		ч		3		u	
7	0111		135		151	3	167	-	183		199	1	215		231	-1	247
		€				ਸ਼		ö		И		TTT		ъ		TTT	
8	1000		136		152		168		184	11	200		216	11	232	ш	248
		0/00	100	TM	102	ര	100	No	101	й	200	TTT	210	й	202	ттт	210
9	1001	100	137		153		169	110	185	11	201	111	217	r1	233	щ	249
		Б	107	ть	100	E	100	C	100	K	201	ъ	217	T	200	T	240
A	1010	50	138	50	154	G	170	G	186		202	D	218	L.	234	Б	250
			100	>	134		170		100	Π	202	ы	210		204	тт	200
в	1011		120		155		171	"	187	51	203	DI	210	51	225	ы	251
		TT.	139		155	-	171	i	107	ъл	203	L	219	3.0	235	T	231
С	1100	п	140	њ	156	•	170	J	100		204	D	220	IVI	226	Ъ	252
		τ'n	140		150		172	C	100	тт	204	2	220		230	-	252
D	1101	ĸ		к	457	-	470	5	100	п	005	Э	004	н	007	Э	050
			141	1-	157		173		189		205	TO	221		237		253
E	1110	n	4.40	n	4.50	ß	4=4	S	400	U	000	Ю	000	0	000	Ю	05.4
		тт	142		158	Ÿ	1/4		190		206	a	222		238		254
F	1111	부		Ψ		1		Î		11		К		п		Я	
			143		159		175		191		207		223		239		255

* 17 : PC1255(HEBREW)

	HEX	8		9		А		В		С		D		E		F
HEX	BIN	1000	1	001	1	010	1	011	1	100	1	101	1	110	1	111
0	0000	€			NE	BSP	°				1		х		J	
Ŭ	0000	12	3	144		160		176		192		208		224		240
1	0001		"		i		±		v.		•		ב		σ	
_ '	0001	12	9	145		161		177		193		209		225		241
2	0010	,	,		¢		2		-:		•		1		Ц	
2	0010	13)	146		162]	178]	194		210		226		242
_	0011	f	"		£		3		T 1		:		٦		ף	
3	0011	13	1	147	1	163		179		195		211		227		243
		,,	"		D		'			1	רד		ה		פ	
4	0100	13	2	148	1	164		180		196		212		228		244
_			•		¥		μ			1	רי	1	٦	1	٣	
5	0101	13	3	149		165	•	181	1	197		213		229	•	245
		+	-		!	1	¶	1		1	רר	1	Ţ	1	z	
6	0110	13	1	150	1	166		182	ľ	198		214		230	-	246
		±	—		8						,		Π		ק	
7	0111	. 13	5	151	5	167		183	-	199		215		231	1.	247
		^	~								"		c7		٦	
8	1000	13	3	152		168	د	184	•	200		216	-	232		248
		0%	TM		C		1						7		777	
9	1001	13	7	153		169		185		201		217		233		249
					×		÷						-		П	
A	1010	13	2	154		170	-	186		202		218		234	•	250
		<	- 		"		~			202		2.10	5	201		200
в	1011	13	2	155		171	"	187	· ·	203		219	2	235		251
			, 	100	_	171	17.	107		200		210	Ľ	200		201
С	1100			156	•	172	/4	188		204		220	1	226		252
		14	, 	150		172	1/	100		204		220	_	230		
D	1101		_	457	-	470	72	400	· ·	005		004		007	L	
		14		157		173	3/	109	_	205		221		231		253 TI
E	1110			450	ß	4-1	74	400	-	000		000	מ	000	R	
		14	2	158	_	174		190	-	206		222		238		254
F	1111				-		Ś						٢			
		14	3	159		175		191		207		223		239		255

* 18 : PC928(GREEK)

	HEX	8	9	,	4		В		с		D		E		F
HEX	BIN	1000	1001	10	10	10	110	11	00	1	101	1	110	11	11
n	0000				(J):	0	2	ï		П	a	ΰ		π	
	0000	128	144		160		176		192		208		224		240
L I	0001			×		±		Α		Ρ		α		ρ	
2019 4		129	145	- 5	161		177		193		209		225		241
2	0010		1	*		2		В		9 j		β		ς	
		130	146		162		178		194		210		226	211121	242
3	0011			£		3		Γ		Σ		γ		σ	
		131	147	-	163		179		195		211		227		243
4	0100		2					Δ		Т		δ		τ	
		132	148		164		180		196		212		228		244
5	0101		31		-	~		E		Y		3		υ	
		133	149		165		181		197		213		229		245
6	0110			E	r	Ά		Ζ		Φ		ζ		φ	
		134	150		166		182		198		214		230		246
7	0111			§		8		Η		X		η		χ	
25		135	151		167		183		199		215		231		247
8	1000				12	Έ		Θ		Ψ		θ		Ψ	
		136	152		168		184		200		216		232		248
	1001			©		Ή		Ι		Ω		l		ω	
	1001	137	153		169		185		201		217		233		249
Δ	1010	207			121	Γ	v	K		Ï		к		ï	v
	1010	138	154		170		186		202		218		234		250
в	1011			~		»		Λ		Ÿ		λ		ΰ	
	1011	139	155		171		187		203		219		235		251
	1100					Ю		Μ		ά		μ		ó	
	1100	140	156		172		188		204		220		236		252
	1101					1/2		Ν		έ		ν		ύ	
	1101	141	157		173	3	189		205		221	2	237		253
а. Г.	1110					Υ		Ξ		ή		Ę		ώ	
E		142	158		174		190		206		222		238		254
-	1122		(*		-	Ω	-	0	-	í		0			
		143	159		175		191	9	207	6	223		239		255

<u>**P**-Print</u>

Description

Let the printer start printing the content of image buffer

Syntax

P*p1*,[*p*2]

Parameters

- p1: Number of label sets : $1 \sim 65535$
- **p2** : Number of copies of each label : 1 ~ 65535

♣ The P command cannot be used in a template sequence. If printing command is needed in template sequence, then use the PV command(See the example of next page).

Caution

The 'P' command must be terminated by 'CR'(0x0d). If not, the printer will not start to print till 'CR' shows.

Example

(1) In case of Using P (P is used outside of template sequence)

$TS'TPL_TST1'$	// Start Template Store
SV00,15,N,'Model Name :'	// Declare variable V00
T50,100,3,1,1,0,0,N,N,'Model Name :'V00	// T command with variable
$ _ TE $	// End Template Store
TR 'TPL_TST1 ''	// Recall stored template 'TPL_TST1'
?	// Get content of variable used in recalled template
SRP770	// Content of variable V00
P 3,2	// when using P command, It must not be inside template,
	// but be used after recalling the template and entering the
	// contents of all variables.
	// After P command, printer starts printing.

(2) In case of Using PV(PV is used inside of template sequence

- TS'TPL_TST1'	// Start Template Store
SV00,15,N,'Model Name :'	// Declare variable V00
SV01,2,N,'# of set :'	// Declare variable V01
SV02,2,N,'# of copies : '	// Declare variable V02
T50,100,3,1,1,0,0,N,N,'Model Name :'V00	// T command with variable
PV V01,V02	// PV command can be used inside the template
- TE	// End Template Store
TR 'TPL_TST1 ''	<pre>// Recall stored template 'TPL_TST1'</pre>
?	// Get content of variable used in recalled template
SRP770	// Content of variable V00
3	// Content of variable V00
2	// Content of variable V00
	// As soon as all contents of variables are entered'
	// printer will starts printing

2. Media & Buffer Related Commands

Set label size and marginal value and

1) SM

Set marginal value in label(Image buffer)

2) SL

Set label(Image buffer) length

3) SW

Set label(Image buffer) width

4) SB

Set buffer mode(Enable or disable Double Buffering)

5) CB

Clear Image Buffer

<u>SM – Set Margin</u>

Description

Set marginal value of the image buffer.

This command moves the origin point (0,0) to (p1,p2) and make (p1,p2) become the new origin.

Syntax

SM*p*1,*p*2

Parameters

p1 : Horizontal margin [dots]

p2 : Vertical margin [dots]

The origin point is upper-left point of the image buffer



** When printing orientation is from top to bottom

****** When printing orientation is from bottom to top.



<u>SL – Set Length</u>

Description

Set length of label and gap(or Black Mark) and specify media type.

Syntax

SL*p1*,*p2(*,*p3*)

Parameters

- p1 : Label length [dots] : Maximum 2432 dots(12 inch)
 - ♣ Double buffering feature can be used only when label length(p1) is less than 1216(2432/2, 6inch) dots.
 - **A** If p1 is over 1216 dots, the double buffering feature will be automatically released.
 - * So if you don't use double buffering feature, you can design maximum 2432
 - dots(12 inch) size label.
- **p2** : Gap length or thickness of black line [dots]
- **p3** : Media Type

р3	Media type
G	Gap
C	Continuous
В	Black Mark

- ♣ If this parameter is not used, automatically set to G(Gap type).
- The default value of label length is 6 inch(1216 dots)
- ***** This command sets the length of image buffer and the printer will print and form feed as much as the length set by this command.
- ***** When using Continuous type media, the label length must be set.

- Gap type : The sensor detects and distinguishes the gap from label.
- Continuous type : The sensor just detects the end of media.
- Black Mark type : The sensor detects black mark on the white label.

• In the Gap Mode, the printer will form feed until meeting the next gap.

♣ In the Continuous Mode, the printer will form feed as much as label length set by SL command.

In the B/M Mode, the printer will form feed until meeting the next B/M.

Example 1

SL406,20 // Set label length to 406 dots (2 inch, 50mm) and gap length to 20 dots(2.5mm)





♣ In case of the B/M type media, the black mark must be located in the center of the media because the detect sensor is in the center position of the printer. So the B/M of next 1 and 2 types cannot be detected.



<u>SW – Set Width</u>

Description

Set label width.

Resize the image buffer to match the label size.

Syntax

SWp1

Parameters

p1 : Label width [dots]

♣ The default value of label width is 4.1 inch(832 dots) and that is the maximum printable width.

\$ SRP770 is the center aligned printer and media is positioned in the center of the head.

Example

SW406

// Set label width to 2 inch(406 dots)



<u>SB – Set Buffer mode</u>

Description

Set double buffer mode

Syntax

SBp1

Parameters

p1 : Enable 'Double Buffering' function.

0 : Disable double buffer mode

1 : Enable double buffer mode(Default)

Double buffering feature enables the printer to construct a second image buffer for a new label while printing the first image buffer.

SRP770 provides two image buffers having maximum 4inch * 6inch.

(Max 832 dots width * 1216 dots height)

♣ Double buffering feature is valid only when the label length set by SL command is less than 1216 dots(6inch).

If label length is over 1216 dots, double buffer mode is automatically cancelled.

<u>CB – Clear Buffer</u>

Description

Clear image buffer and be ready to make a new label.

Syntax

CB

Example

CB

// Clear Image Buffer

3. Printer Setting Commands

To Set variable functions of printer

1) SS

Set printer speed

2) SD

Set printing density

3) SO

Set printing orientation

4) SP

Set serial port

<u>SS – Set Speed</u>

Description

Set print speed

Syntax

SSp1

Parameters

p1 : Speed set value

Value	Speed	Dip1-2	Dip1-1
0	2.5 ips	Off	Off
1	3.0 ips	Off	On
2	4.0 ips	On	Off
3	5.0 ips	On	On

<u>SD – Set Density</u>

Description

Set printing density

Syntax

SD*p1*

Parameters

p1 : Density value : $\mathbf{0} \sim \mathbf{20}$ (0 is the lowest density)

<u>SO – Set Orientation</u>

Description

Set printing direction

Syntax

SOp1

Parameters

p1 : Printing direction

T : *Print from top to bottom(default)*

B : Print from bottom to top

Example	
SOT	$/\!/$ Print from top of the image buffer to bottom.
SOB	$/\!/$ Print from bottom of the image buffer to top.

Feeding Direction



<u>SP-Set Port</u>

Description

Set serial port.

Syntax

SP*p1,p2,p3,p4*

Parameters

p1 : Baud rate

Value	Value Baud Rate(bps)		Dip1-1		
0	9,600	Off	Off		
1	19,200	Off	On		
2	38,400	Not supported	by dip switch		
3	57,600	On	Off		
4	115,200	On	On		

*****You can change setting by both 'SP' command and Dip s/w.

*****When power is turned on, the printer is set by Dip s/w.

*****'SP' command is prior to the DIP s/w settings.

p2 : Parity

Value	Parity
О	Odd parity
Е	Even parity
N	No parity(Default)

p3 : Number of data bits

Value	Data bits
7	7 bit
8	8 bits (Default)

p4 : Number of stop bits

Value	Stop bits
1	1 bit(Default)
2	2 bits

4. Variable Related Commands

Variables and counters related commands

1) SC

Counters which is used in template sequence

2) AC(Auto Counter)

Counters which is used in normal commands sequence (not in template sequence)

3) SV

Set variable

4) ?

Get data for counter and variable

5) PV

Print with variables

<u>SC – Set Counter</u>

Description

Define one counter of total 10 counters.

Counters must be used in Template sequence and execute consecutive auto-numbering function.

Syntax

SCp1,p2,p3,p4,'Prompt'

Parameters

p1 : Identity of Counter : $0 \sim 9$

♣ Total 10 counters, from C0 to C9, are provided.

- **p2** : The size of the field which displays the content of counter : $1 \sim 27$
- **p3** : Justification in field(Field size is p2)

Value	Justification
N	No
R	Right
L	Left
C	Center

p4 : Step Value : $\pm 1 \sim \pm 9$

+ or – symbol must precede . Ex) –2 or +3

'Prompt': This ASCII text field is used to ask a starting counter value to be entered for the counter(p1) and will be transmitted to the host by serial interface.

• The data field of T(Text) or B(Barcode) commands is used to print the contents of counter.

♣ SC must be used just in Template sequence. If you want to use counter function in normal mode(not use Template), use the AC(Auto Counter) command described in next page.

Example

SC0,7,N,+3,'Please Enter Serial Number'

<u>AC – Auto Counter</u>

Description

Define one counter of total 10 counters.

Counters can be used in normal mode(not in Template) and execute consecutive auto-numbering.

Syntax

ACp1,p2,p3,'Start Value'

Parameters

p1 : Identity of Counter : $0 \sim 9$

♣ Total 10 counters, from C0 to C9, are provided.

p2 : The size of the field which displays the content of counter : $1 \sim 27$

p3 : Step Value : $\pm 1 \sim \pm 9$

+ or – symbol must precede . Ex) –2 or +3

'Start Value' : Start value of auto-counting. Just digits can be used in this field

• The Auto-counter defined by AC command can be printed with T and B1 command.

• This function is useful to print serial number or serial barcode without using Template.

AC can not be used in Template sequence. If you want to use counter function in Template sequence, use the SC command.

Example AC0,3,+1,'123' AC1,7,+1,'1234567'

// Please input the start value of counting between ' marks

T100,100,3,1,1,0,0,N,N,C0 B1100,400,0,2,7,100,0,1,12,C1

P3,1

<u>SV – Set Variable</u>

Description

Define variables for the text or barcode 'data' fields.

Syntax

SVp1,p2,p3,'Prompt'

Parameters

- **p1** : Identity of Variables : 00 ~ 99
- **p2** : Maximum number of characters : 1 ~ 99
- **p3** : Justification in field(Field size is p2)

Value	Justification
Ν	No
R	Right
L	Left
С	Center

'Prompt': This ASCII text field is used to ask a value to be entered for the variable(p1) and is transmitted to the host by serial interface.

• The data field of T(Text) or B(Barcode) commands is used to print the contents of variable.

A Variable is entered to data field like V00 or V01.

Example

SV01,20,N,'Please Enter Product Code :'

<u>? – Get Variables</u>

Description

Use this command to get the content of variables or counters

Syntax

?

Content of variable

A Data must be entered in ascending order

Example

TS'Templa	te1'
-----------	------

SV00,20,N'Enter Company Name : ' SV01,15,N'Enter Product Code :' T50,30,3,1,1,0,0,N,N,V00 T50,150,3,1,1,0,0,N,N,'Code : 'V01 **TE**

// Declare(Set) variable V00		
// Declare(Set) variable V01		
// Use T command to print V00		
// Use T command to print V01		
// Template Store End		

// Template Store Start

P1	// Start Printing when the P command comes
770	// data for V01
SEM	// data for V00
?	// Start to get data for variables
TR'Template1'	// Recall Template1

Result

SEM		
Code : 770		

PV-*Print with Variables*

Description

This command is used in template sequence. The parameters are given by variables.

Syntax

PV*p1,[p2]*

Parameters

p1 : Number of label sets : $1 \sim 65535$

p2 : Number of copies of each label : 1 ~ 65535

Example

TS'Template1'	// Template Store Start		
SV00,20,N,'Please Input the Name :'	// Declare(Set) variable V00		
SV01,5,N,'Input Number of label sets :'	<pre>// Declare(Set) variable V01 // Declare(Set) variable V02</pre>		
SV02,5,N,'Input Number of label copies :'			
T50,30,3,1,1,0,0,N,N,V00	// Write V00 to image buffer		
PV <i>V01,V02</i>	// Print V00, V02 copies, V01 sets		
ТЕ	// Template Store End		
TR'Template1'	// Recall Template1		
?	// Start to get data for variables		
This is PV Test	// data for V00		
2	// data for V01		
1	// data for V02		

*** Start Printing as soon as data for all variables(and counters) are entered. ***

5. Template Related Commands.

Template(a certain format of label, sequence of SLCS commands) related commands

1) TS

Indicate start of template sequence store.

2) TE

Indicate end of template sequence store.

3) TR

Recall and reuse stored template.

4) TD

Delete stored template.

5) TI

Print all templates stored in memory.
<u>TS – Template store Start</u>

Description

Start template sequence storing.

All the contents following 'TS' are stored in memory until meeting 'TE' Command.

Syntax

TS'Template name'

Parameters

'Template name' : This name will be used when 'Recall' the stored template.

♣ The name is allowed to be up to 10 characters long.

* The 'Template name' is **Case-Sensitive**.

TI command shows the list of currently stored Templates.

TE-*Template* store End

Description

End template sequence storing

Syntax

ТЕ

. When storing is finished, the printer sends '!' to the host to prompt end of storing.

Example

TS'Template1'

// Start template storing

•••••

TE

// End template storing

<u>TR – Template Recall</u>

Description

Recall the stored template from memory to make a label and print that.

Syntax

TR'*Template name*'

Parameters

'Template name' : Indicate the template to be recalled.

- ♣ The name is allowed to be up to 10 characters long.
- * The 'Template name' is **Case-Sensitive**.

Example

TR'Template1'

start printing.

// Recall 'Template1'

♣ If recalled Template does not include any variable or counter, just 'P' command is enough to start printing.

• If recalled Template includes variables or counters but not 'PV'(Print with Variables), use '?' command to get data for variables and counters and finally 'P' command is necessary to

• If recalled Template includes PV commands, printing will start as soon as all data for variables and counters are entered.

<u>TD – Template Delete</u>

Description

Delete stored template from memory

Syntax

TD 'Template name'

Parameters

'Template name' : Indicate the template to be deleted.

- The name is allowed to be up to 10 characters long.
- * The 'Template name' is **Case Sensitive**.
- By using *, all templates will be deleted from memory.

Example

TD'Template1' TD*

// Delete 'Template1'
// Delete all currently stored templates

TI – Template Information

Description

Print list of currently stored templates and available memory space

Syntax

ΤI

Example

ΤI

Result

=

Templates Information

1. Template1

2. Template2 Available template memory : 53Kbyte

6. Image Related Commands.

These commands provide functions to download and print graphic data. PCX and BMP format file are supported and bitmap image data can be printed directly.

1) IS

Download PCX format image data to NV(Non Volatile) area of memory.

2) IR

Recall and print downloaded image data.

3) ID

Delete image data in NV memory.

4) II

Print all images stored in memory.

5) LD

Draw the bitmap image data directly on specific position on image buffer.

6) BMP

Draw BMP format image file directly on specific position on image buffer.

IS – Image Store

Description

Download PCX format Image file into the Printer Memory

Syntax

ISp1,'Image name'

*** Use the Image Download utility provided by manufacturer. ***

Parameters

p1 : The size of image file in unit of byte.

* DIR command of DOS shows this information.

'Image name' : This is the name that will be used when recalling the stored image data.

• The name is allowed to be up to 10 characters long.

The name is case sensitive.

How to download PCX file by using utility program.

Step1. Execute SRP770Util.exe provided by manufacturer.



- (2) When COM port is selected, adjust Serial port setting to setting of printer.
- (3) Click **Open Port** button

Step3. Click PCX File Downloader button to start Downloader.

Port Select	ion —	Manufacturer Use-	
Port	СОМ1 -	Make Label with SLCL	Flash-Font Downloader
Serial Port	Setting	Factory Test	
Parity	No -	Utilities	
Databits	8 -	Soft-Font Downloader	PCX File Downloader
Stonhits	1 -		
Stopbits Flowcontrol	1 ▼ Xon/Xoff ▼	Font Finder	Chracter Set Print Test



Step4. Download PCX file and store in printer memory.

(1) Click **Browse** button and select PCX file to be downloaded.

(2) Type the image name to be used to recall downloaded image.

The default name is set by the file name and that must be less than 8 characters.

(3) Click **Start Download** button.

You can delete stored images by (A)

You can test IR(image recall) command by (B)

You can see stored images information(II command) by (C)

IR – Image Recall

Description

Recall the stored image from memory and draw that on the image buffer.

Syntax

IRp1,p2,'Image name'

Parameters

p1 : Horizontal position (X) [dot]

p2 : Vertical position (Y) [dot]

'Image name' : Indicate the image data to be recalled.

***** Variable can be used in this field.

- ***** The name is allowed to be up to 10 characters long.
- ***** This name is Case Sensitive.

Example

IR30,100,'Image1' IR30,100,**V01** // Recall 'Image1'
// Variable can be used in name field

ID – Image Delete

Description

Delete stored image from memory

Syntax

ID 'Image name'

Parameters

'Image name' : Indicate the Image in memory to be deleted.

- * The name is allowed to be up to 10 characters long.
- ***** This name is **Case Sensitive**.
- By using *, all images in memory will be deleted.

Example

ID'Image1' ID*

// Delete 'Image1'
// Delete all currently stored images

*** You can use the Image Download utility. ***

	PCX Format Image File Downloader	
	Image Store(IS)	
	Browse G:\JOB_Mine\SRP770\Utility\P	
	Type Image Name 2002CUP	
	Start Download	
	Image Delete(ID)	
	Type Image Name 2002CUP 🔶	(1)
(2)	Image Delete Delete All Ima	(3)
	Image Recall(IR) Test X position : 100 , Y position : 100 Type Image Name 2002CUP Image Recall	
	Image Information(II) Close	

- When you delete the specific image in printer memory
 - (1) Type the image name to be deleted
 - (2) Click Image Delete button
- When you want to delete all stored images in printer memory
 - (3) Click Delete All Images button

II – Image Information

Description

Print list of currently stored images in memory and available memory space

Syntax

II

Example

II

Result

Image Information

1. Image1

2. Image2

Available Images memory : 5.3Kbyte

LD

Draw bitmap image data on specific position of image buffer.

Syntax

LDxL xH yL yH dhL dhH dvL dvH d1~dk

Parameters

```
xL : Low byte of horizontal start position (X) [dot]
xH : High byte of horizontal start position (X) [dot]
→ Start position in x direction = <u>xH * 256 + xL</u>
yL : Low byte of vertical start position (Y) [dot]
yL : High byte of vertical start position (Y) [dot]
→ Start position in y direction = <u>yH * 256 + yL</u>
dhL : Low byte of the number of bytes in x-direction.
dhH : High byte of the number of bytes in x-direction.
→ Number of data in x direction = <u>dhH * 256 + dhL</u>
dvL : Low byte of the number of lines.
dvH : High byte of the number of lines.
→ Number of data in y direction = <u>dvH * 256 + dvL</u>
```

 \rightarrow k = (dhH*256 + dhL) * (dvH*256 + dvL)

** CAUTION **

There are no commas(,) and no space between each parameters.

Example





BMP

Send BMP format file directly to printer. Just white/black BMP file is supported

Syntax

BMPp1,p2↓

Data string of *.bmp

Parameters

p1 : Horizontal position (X) [dot]

p2 : Vertical position (Y) [dot]

1.↓ means 'CR(+LF)'

2. There is comma(,) between p1 and p2.

3. After p2(Before sending BMP data string) 'CR(+LF)' must follow.

Example

In dos mode, COPY bmp.txt+image2.bmp+P.txt LPT1 /b

Bmp.txt

BMP200,200 ↓

P.txt

P1 ↓			

7. Download font Related Commands.

Download fonts into the printer memory. Users can download special size or special design of ASCII font and use this font with T command.

1) DS

Store downloadable fonts to NV(Non Volatile) memory of printer.

2) DD

Delete downloaded fonts from memory

3) DI

Print all downloaded fonts in memory and available memory space.

DS – *Downloadable font Store*

Description

Download soft font in printer memory.

Syntax

DSp1,p2,p,p4,'Font Name' Font Data.....

Parameters

- p1 : Font Width
- p2 : Font Height
- **p3** : The number of characters to be downloaded
- **p4** : Start address of the font map : $0 \sim 255$ (not $0x00 \sim 0xFF$)

Please use decimal value not hexadecimal value.

'Font name' : A ~ Z

 \rightarrow The soft fonts can be easily downloaded by using the download utility in CD provided by manufacturer.

Any size of fonts can be used.

The memory allocated to store soft fonts is total 128 KByte

[♣] The ASCII code map (0~255) can be used.

How to download Soft Font by using utility program.

Step1. Execute SRP770Util.exe provided by manufacturer.



- (2) When COM port is selected, adjust Serial port setting to setting of printer.
- (3) Click **Open Port** button

Step3. Click Soft-Font Downloader button to start Downloader.

Port Selecu	on	Manufacturer Use –	
Port	СОМ1 –	Make Label with SLCL	Flash-Font Downloader
Serial Port (Setting —	Factory Test	
Baud	9600 -		
Parity	No 💌] Utilities	
Databits	8 💌	Soft-Font	PCX File
	-	Downloader	Downloader
Stanhits	11		21.1
Stopbits Flowcontrol	1 ▼ ×on/×off ▼	Font Finder	Chracter Set Print Test

Step4. Download PCX file and store in printer memory.

	Font Downloader
	Downloadable Font Store(DS)
1) —	Prowse G:\JOB_Mine\SRP770\Font\020120_Final\
	Size(W × H) Name(A to Z) Start Address
2) —	12 × 20 A 32
3)	Downlend
	Downloaded Font Delete(DD)
	Font Name : A Delete Font Delete All Fonts
	Downloaded Font Printng Test
	Pos_X: 50 Font: A Rotate
	Pos_Y : 50 Space : 1 0 90°
	Mul_X: T Reverse C 180°
	Mul_Y: 1 🗆 Bold
	Data Field : Samsung Label Printer SRP770
	Downloaded font printing test
	Downloaded Font Information Close
	Downloaded Font Infomation Close

- (1) Click **Browse** button and select font file(binary format) to be downloaded.
- (2) Type the font size as Width \times Height.
- (3) Type the font name to be used to select downloaded font in T command.

A to Z can be used as font name(a to z are not available).

- (4) Type the start address in ASCII code map of font data.
- (5) Click **Download** button.

DD – *Downloaded font Delete*

Description

Delete downloaded font from memory

Syntax

DD'font name'

Parameters

'font name' : Indicate the Image in memory to be deleted.(A~Z)

***** This name is Case Sensitive.

& By using *, all images in memory will be deleted.

***** You can show the downloaded font list by DI command.

Example

DD'A'// Delete downloaded font ADD*// Delete all downloaded fonts in memory

*** You can delete the downloaded font by using the utility ***

	Font Downloader	
	Downloadable Font Store(DS)	
	Browse G:\JOB_Mine\SRP770\Font\020120_Final\	
	Size(W × H) Name(A to Z) Start Address 12 × 20 A	
	Download	(2)
	Downloaded Font Delete(DD)	
(1) —	Font Name : A Delete Font Delete All Fonds	— (3)
	Downloaded Font Printng Test	
	Pos X: 50 Font: A Rotate	
	Pos Y : 50 Space : 1 C 90"	
	Mul X: 1 Eleverse C 180°	
	Mul_Y : 1 Bold C 270°	
	Data Field : Samsung Label Printer SRP770	
	Downloaded font printing test	
	Downloaded Font Infomation Close	

- When you delete the specific font in printer memory
 - (1) Type the font name to be deleted.
 - (2) Click Delete Font button
- **.** When you want to delete all stored font in printer memory
 - (3) Click Delete All Fonts button

DI – Downloaded font Information

Description

Print list of downloaded font.

Syntax

DI

Example

DI

Result

16	 25	100	
	23	128	6400
12	24	224	10752
Free Memory			
	7	<i>,</i> 	,

***** w : font width, h : font height, c: total number of characters

8. The Others.

Commands not included in 1 to 7 categories.

1) @

Printer initialization

2) PI

Print information of printer configuration

3) CUT

Enable/Disable Cutting Action

4) ^cp

Check printer status and report 2bytes status data to host.

<u>(a) – Initialize printer</u>

Description

Initialize the printer

Syntax

(a)

PI – *Report Printer Information*

Description

Print current printer setting.

Syntax

PI

CUT – Auto-cutter Enable/Disable

Description

Enable or Disable Auto-cut action after printing by 'P' command.

Syntax

CUTp1

Parameters

p1 : Cutting Action Enable/Disable

y : Enable cutter to act after printing is finished.

n : Disable cutter.

• This command is not the cutting command itself but cutting enable/disable command.

♣ Cutting is executed immediately after printing is finished by P command if the cutter option is enabled by this CUT command.

♣ The cutter option is initially set by the Dip1-7 when Power is ON and after that the user can control cutter option with this command.

♣ With the cutter enabled, we recommend you set the Dip1-8 as ON state to prevent the printed paper from abruptly spring out the printer.

Exam	ple
------	-----

Cutting is executed after Printing is finished	Cutting is not executed after Printing is finished
Т20	T20
B130	B130
BD	BD
СИТу	CUTn
P1	P1

<u>^cp – Check Printer Status and Report 2 bytes</u>

Description

Check printer status and report 2bytes status data to host.

Syntax

^cp

Return Value

1. Format

<1st Byte> <2nd Byte>

2. Table

Return Values		Description	Hoy	
Byte	bit	Description	пех	
	7	Paper Empty	0x80	
	6	Cover Open	0x40	
	5	Cutter jammed	0x20	
1 at Duto	4	Thermal Head(TPH) overheat.	0x10	
Ist Dyte	3	Gap Detection Error(Auto-sensing failure)	0x08	
	2	Not assigned	0x04	
	1 Not assigned	Not assigned	0x02	
	0	Not assigned	0x01	
	7	On building label to be printed in image buffer.	0x80	
	6	On printing label in image buffer	0x40	
	5	Issued label is paused in peeler unit.	0x20	
2m d Derte	4	Not assigned	0x10	
2nd Byte	3	Not assigned	0x08	
	2	Not assigned	0x04	
	1	Not assigned	0x02	
	0	Not assigned	0x01	

3. Examples

When Return Values are		Printer Status is
1st Byte	2nd Byte	
0x00	0x00	No Error. The printer is ready to build and print label.
0x80	0x00	No paper is installed in printer.
0x80	0x40	Paper roll out while printing label. When new paper roll is loaded, the printer will re-issue the last label.
0x60	0x40	While printing, cutter is jammed and cover is opened (by user).

<u>^cu – Check Printer Status and Report 1 byte</u>

Description

Check printer status and report 1 byte status data to host.

Syntax

^cu

Return Value

1. Format

<1st Byte>

2. Table

Return Values		Description	Hoy	
Byte	bit	Description	110.4	
	7	Paper Empty	0x80	
	6	Cover Open	0x40	
	5	Cutter jammed	0x20	
1 at Data	4	Thermal Head(TPH) overheat.	0x10	
Ist Dyte	3	Gap Detection Error(Auto-sensing failure)	0x08	
	2	Not assigned	0x04	
	1	Not assigned	0x02	
	0	Not assigned	0x01	

CH3. Programming Example

Example) T_resident

(File location : CD\CommandTest\Commands(SLCS)\Text\T_resident.txt)

CB SS3 SD20 SW800 SOT T26,20,0,1,1,0,0,N,N,'Font - 6 pt' T26,49,1,1,1,0,0,N,N,'Font - 6 pt' T26,81,2,1,1,0,0,N,N,'Font - 8 pt' T26,117,3,1,1,0,0,N,N,'Font - 10 pt' T26,156,4,1,1,0,0,N,N,'Font - 12 pt' T26,200,5,1,1,0,0,N,N,'Font - 20 pt' T26,252,6,1,1,0,0,N,N,'Font - 30 pt' P1

// Set Speed to 4 ips

// Set Density level to 20

// Set Label Width 800

// Set Printing Orientation from Top to Bottom

Result

Font - 6 ptFont - 8 ptFont - 10 ptFont - 12 pt

Font – 15 pt

Font - 20 pt

Font - 30 pt

Example) T_Rotate4

(File location : CD\CommandTest\Commands(SLCS)\Text\T_Rotate4.txt)

CB SS3 SW832 T300,500,4,1,1,0,0,N,N,'ABCDEFG' T300,500,4,1,1,0,1,N,N,'ABCDEFG' T300,500,4,1,1,0,2,N,N,'ABCDEFG' T300,500,4,1,1,0,3,N,N,'ABCDEFG' P1

Result



Example) Code39

(File location : CD\CommandTest\Commands(SLCS)\Barcode\Code39.txt)

CB SM10,0 *B1*78,196,0,2,6,100,0,0'1234567890' *B1*50,468,0,4,10,200,0,0'1234567890' P1

// Caution : The position is not (178,196) but (78,196).

Example) BD1

(File location : CD\CommandTest\Commands(SLCS)\BlockDraw\BD1.txt)

SS3	// Set Speed to 4 ips
SD20	// Set Density level to 20
SW800	// Set Label Width to 800
CB	// Clear Image Buffer

BD50,50,750,500,B,20 T100,150,5,1,1,0,0,N,N,'Normal Mode' T100,300,5,1,1,0,0,R,N,'Reverse Mode'

SOT P1

Result



Example) BD3

(File location : CD\CommandTest\Commands(SLCS)\BlockDraw\BD3.txt)

SS3	// Set Printing Speed to 4 ips
SD20	// Set Printing Density level to 20
SW800	// Set Label Width to 800
CB	// Clear Image Buffer
BD50,100,400,150,O	// Draw a block in Overwriting Mode
BD50,200,400,250,O	
BD50,300,400,350,O	
BD100,50,150,400,E	// Draw a block in Exclusive OR mode
BD200,50,250,400,E	
BD300,50,350,400,E	
BD500,200,700,400,O	
BD510,210,670,370,D	// Draw a block in Delete mode, namely Erase block area
BD100,600,350,1000,O	
T50,700,5,1,1,0,0,N,N,'NORMAL'	// Write Text data on image buffer
T50,800,5,1,1,0,0,N,N,'NORMAL'	
BD110,780,340,900,E	
T500,700,5,1,1,0,0,n,N,'TEST'	
BD480,680,700,800,E	
SOT	// Set Printing Orientation from Top to Bottom

P1

// Set Printing Orientation from Top to Bottom
// Start Printing

Result



Example) BD4

(File location : CD\CommandTest\Commands(SLCS)\BlockDraw\BD4.txt)

CB	
SW800	
SM10,0	
BD100,300,550,330, O	// Overwrite mode
BD200,200,250,430, O	// Overwrite mode
BD400,200,450,430,E	// Exclusive OR mode

P1


Example) BD5

(File location : CD\CommandTest\Commands(SLCS)\BlockDraw\BD5.txt)

СВ	
SW800	
SM10,0	
BD100,300,300,500,O	
BD400,300,700,500,B,30	// Box mode, additional parameter follows
P1	



Example) Slope

(File location : CD\CommandTest\Commands(SLCS)\BlockDraw\Sope.txt)

CB SS3 SD20 SW8000

BD100,300,300,800, S,100	$\prime\prime$ Slope mode, additional parameter follows
BD600,300,400,800, S,100	

P1



Example) CS(Character Set) Test - Use the Test program. (File location : CD\Utililties\TestUtility\770TestUtil.exe)



- (1) Click this button, then all international characters will be printed.
- (2) Click this button, then ASCII characters(under 80h) will be printed. !! International character set can be selected by changing (A) from 0 to 9.
- (3) Click this button, then Code Table(over 80h) will be printed.

!! Code table can be selected by changing (B) from 0 to 6.

Example) SW&SL

(File location : CD\CommandTest\Commands(SLCS)\Setting\SW&SL.txt)

CB SS3

SD20

SW800

// Set Label Width to 800
// Continuous type

SL300,10,C BD0,0,800,300,B,10 T30,40,4,1,1,0,0,N,N,'SW=800, SL=300, Continuous' P1

SW600

SL500,10,C BD0,0,600,500,B,10 T30,40,4,1,1,0,0,N,N,'SW=600, SL=500' T30,100,4,1,1,0,0,N,N,'Continuous' P1

SW400

SL800,10,C BD0,0,400,800,B,10 T30,40,4,1,1,0,0,N,N,'SW=400' T30,90,4,1,1,0,0,N,N,'SL=800' T30,140,4,1,1,0,0,N,N,'Continuous' P1 Result

SW = 800, SL=300, Continuous



Continuous

SW= 400, SL = 800, Continuous

113

Example) TEST00_TS

(File location : CD\CommandTest\Commands(SLCS)\Template\Test00\TEST00_TS.txt)

TD'Test00'	// Template Delete
TS' Test00'	// Start Template Store
SV00,15,N,'Manufacturer :'	// Declare variable V00, field size:15, No justification
SV01,15, R ,'Model Name :'	// Declare variable V01, field size:15, Right justification
T50,100,3,1,1,0,0,N,N,'Manufacturer :'V00	// Print variable V00 with some text string
T50,150,3,1,1,0,0,N,N,'Model Name :'V01	// Print variable V01 with some text string
T50,300,3,1,1,0,0,N,N,V00	// Print variable V00 only
T50,350,3,1,1,0,0,N,N,V01	// Print variable V01 only
TE	// End Template Store
TI	// Print and show all templates in memory

Templates Information	
1. Test 1 ◀	Stored in past time
2. Test0	Stored in this time
Available template memory : 5.3Kbyte	

Example) TEST00_TR

(File location : CD\CommandTest\Commands(SLCS)\Template\Test00\TEST00_TR.txt)

_

TR'Test00'	// Recall Stored template 'Test00'
?	// To get contents for variables used in 'Test00'
SEM	// Content for V00
SRP770	// Content for V01
P1	// Print

	— Right Justification
SEM SRP770	 Right Justification No Justification

Example) TEST04_TS

(File location : CD\CommandTest\Commands(SLCS)\Template\Test04\TEST04_TS.txt)

TS'Test04'	// Start Template Store
СВ	// Clear Image Buffer
SS3	// Set Speed to 4 ips
SD20	// Set Density level 20
SW800	// Set Label Width to 800
SOT	// Set Printing Orientation from Top to Bottom(Default)
SV00,15,L,'prompt'	// Declare variable V00, field size:15, Left justification
SV01,15,R,'prompt'	// Declare variable V01, field size:15, Right justification
SV02,15,C,'prompt'	// Declare variable V02, field size:15, Center justification
SV03,15,N,'prompt'	// Declare variable V03, field size:15, No justification
SV04,15,L,'prompt'	// Declare variable V04, field size:15, Left justification
SV05,15,R,'prompt'	// Declare variable V05, field size:15, Right justification
SV06,15,C,'prompt'	// Declare variable V06, field size:15, Center justification
SV07,15,N,'prompt'	// Declare variable V07, field size:15, No justification
T26,50,4,1,1,0,0,R,N,V00	// Print variable only
T26,100,4,1,1,0,0,R,N,V01	
T26,150,4,1,1,0,0,R,N,V02	
T26,200,4,1,1,0,0,R,N,V03	
T26,250,4,1,1,0,0,R,N,'SRP770 :'V04	// Print variable with fixed text data
T26,300,4,1,1,0,0,R,N,'SRP770 :'V05	
T26,350,4,1,1,0,0,R,N,'SRP770 :'V06	
T26,400,4,1,1,0,0,R,N,'SRP770 :'V07	
ТЕ	// End Template Store

Example) TEST04_TR

(File location : CD\CommandTest\Commands(SLCS)\Template\Test04\TEST04_TR.txt)

TR'Test04'	// Recall Template	Α
?	// Start Get values for variables	В
А	// data for variable V00	
В	// data for variable V00	C
С		D
D		
Е		SRP770 · E
F		SRP770 : F
G		
Н	// data for variable V07	SRP770 G
		SRP770 : H
P1	// Start Printing	

Example) IR1

(File location : CD\CommandTest\Commands(SLCS)\PCX\IR1.txt)

IR130,400,'Samsung	,
P1	

// Recall stored image data

// Printing

!!! Use the PCXDown utility when you download the pcx image file to printer memory. Refer to IS command.



Example) TEST10_TS

(File location : CD\CommandTest\Commands(SLCS)\Template\Test10\TEST10_TS.txt)

TS'Test10'	// Start Template Store
СВ	// Clear Image Buffer
SS3	// Set Speed to 5 ips
SD20	// Set Density to 20
SW800	// Set Label Width to 800
SOT	// Set Printing Orientation from Top to bottom
SV00 ,15,C,'prompt'	// Declare Variable 00
SV01,15,N,'prompt'	// Declare Variable 01
SV02 ,10,N,'prompt'	// Declare Variable 02
T130,250,5,1,1,0,0,R,N, V00	// Print Content of V00
T250,600,5,1,1,0,0,N,N, V01	// Print Content of V01
IR130,400, V02	// Use V02 as Image Name
TE	// End Template Store

Example) TEST10_TR

(File location : CD\Testfile\Template\Test10\TEST10_TR.txt)

TR'Test10'	// Recall Template
?	// Start Get data for variables
SAMSUNG	// data for V00
SRP770	// data for V01
Samsung	// data for V02(Image Name)
P1	// Start Printing



Example) TEST11_TS

(File location CD\CommandTest\Commands(SLCS)\Template\Test11\TEST11_TS.txt)

TS'Test11'

CB
SS2
SD20
SW800
SOT
SC0,4,L,+1,'COUNTER1'
SC1,4,N,-1,'COUNTER2'
T50,50,4,1,1,0,0,N,N,'Serial Number : 'C0
T50,150,4,1,1,0,0,R,N,'Serial Number : 'Cl

// Start Template Store

- // Clear Image Buffer
- // Set Printing Speed to 4 ips
- // Set Density to 20
- // Set Label Width to 800
- // Set Printing Orientation from Top to Bottom
- // Declare Counter 0, Field=4, Step:+1,Left Justi.
- // Declare Counter 1, Field=4, Step: -1,No Justi.
- // Print Counter 0
- // Print Counter 1

ТЕ	// End of Template Store	Serial Number : 0001
		Serial Number : 9999

Serial Number : 0002

Serial Number:9998

Serial Number : 0003

Serial Number : 9997

Example)	TEST11	TR
······································		_

? 9999

0001

P3.1

TR'Test11' // Recall Template
? // Start Get values for variables
0001 // data for Counter 0
9999 // data for Counter 1
P3,1

Serial Number : 9999 Serial Number : 0001 Serial Number : 0000 Serial Number : 0000 Serial Number : 0001 Serial Number : 9999

Example) SLCS_UPS

(File location : CD\CommandTest\SampleLabel_by_SLCS\UPSformat.txt)

SM20,20 CS0,1 SS3 SD20 SW832 SOT

B210,428,M,2,'002,630,00725,1234,[)>-01 961Z07001156 UPSN WX9031 013 / 40 N SAN JUAN PR-^J'

T15,5,0,1,1,1,0,N,N,'JESS PANAGIA/MATTY CASTELLANO' T15,21,0,1,1,1,0,N,N,'(787) 253-2877 ' T15,38,0,1,1,1,0,N,N,'TEST FOR DWT' T15,55,0,1,1,1,0,N,N,'TEST FOR NO PACKAGE X OF Y' T15,72,0,1,1,1,0,N,N,'CAROLINA PR 00979' T60,160,2,1,1,1,0,N,N,'FOSS DOM TESTCASE' T60,188,2,1,1,1,0,N,N,'78612345678' T60,215,2,1,1,1,0,N,N,'UNITED PARCEL SERVICE PR' T60,243,2,1,1,1,0,N,N,'TEST FOR PLUSFOUR FOR PUERTO RICO' T60,271,2,1,1,1,0,N,N,'TEST FOR DESCRIPTION' T60,299,2,1,1,1,0,N,N,'TEST FOR CONSIGNEE BILLING OPTION' T60,326,4,1,1,1,0,N,N,'SAN JUAN PR 00725-1234' T456.9.2.1.1.1.0.N.N.'401' T507,50,1,1,1,1,0,N,N,'DWT: 15,15,15' T629,653,3,3,3,1,0,N,B,'2 B1265,523,1,3,3,107,0,0,'420007251234'

T258,427,2,2,3,1,0,N,B,'PRI 009 4-00' T10,664,5,1,1,1,0,N,B,'UPS 2ND DAY AIR' T10,724,2,1,1,1,0,N,N,'TRACKING #: 1Z WX9 031 02 0700 1156' BD0,774,812,778,O

T801,1035,1,1,1,1,0,N,N,'' T10,1031,1,1,1,1,0,N,N,'BILLING: ' T118,1031,1,1,1,1,0,N,N,'CONSIGNEE' T10,1055,1,1,1,1,0,N,N,'DESC: what ever' T10,1148,1,1,1,1,0,N,N,'PkgRef2:' T10,1171,1,1,1,0,N,N,'Pkg Ref 5: Label Dom Test 19' T15,129,2,1,1,1,0,N,N,'SHIP TO: ' BD0,647,810,661,O BD0,1012,812,1027,O BD0,423,812,427,O BD243,423,247,647,O T382,1193,0,1,1,1,0,N,N,'UOF 12.67.89 Eltron LP2442 12.34 04/2000' B167,791,1,3,3,208,0,0,'1ZWX90310207001156' P1

