

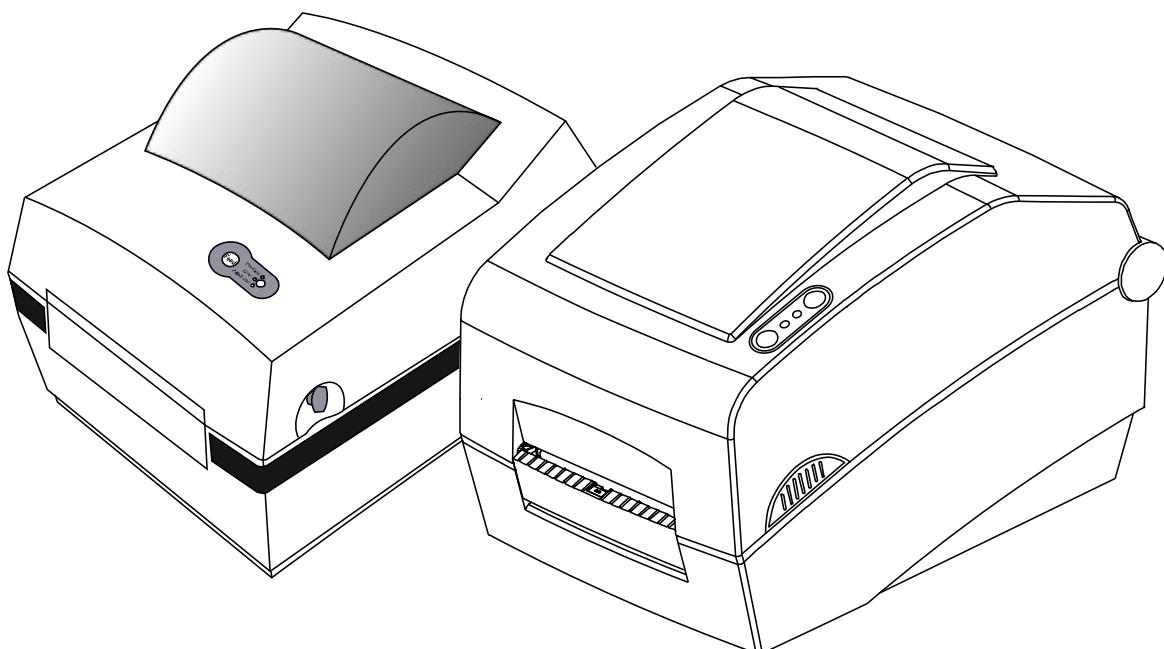
BIXOLON®

Programming Manual

SLCS

Rev. 1.22

**SRP-770 / 770II / 770IIE
SLP-T400 / T400E
SLP-T403 / T403E
SLP-D400 / D400E
SLP-D403 / D403E**



<http://www.bixolon.com>

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1. Foreword

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..

We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

1-1 Image Buffer Configuration

1) Maximum size

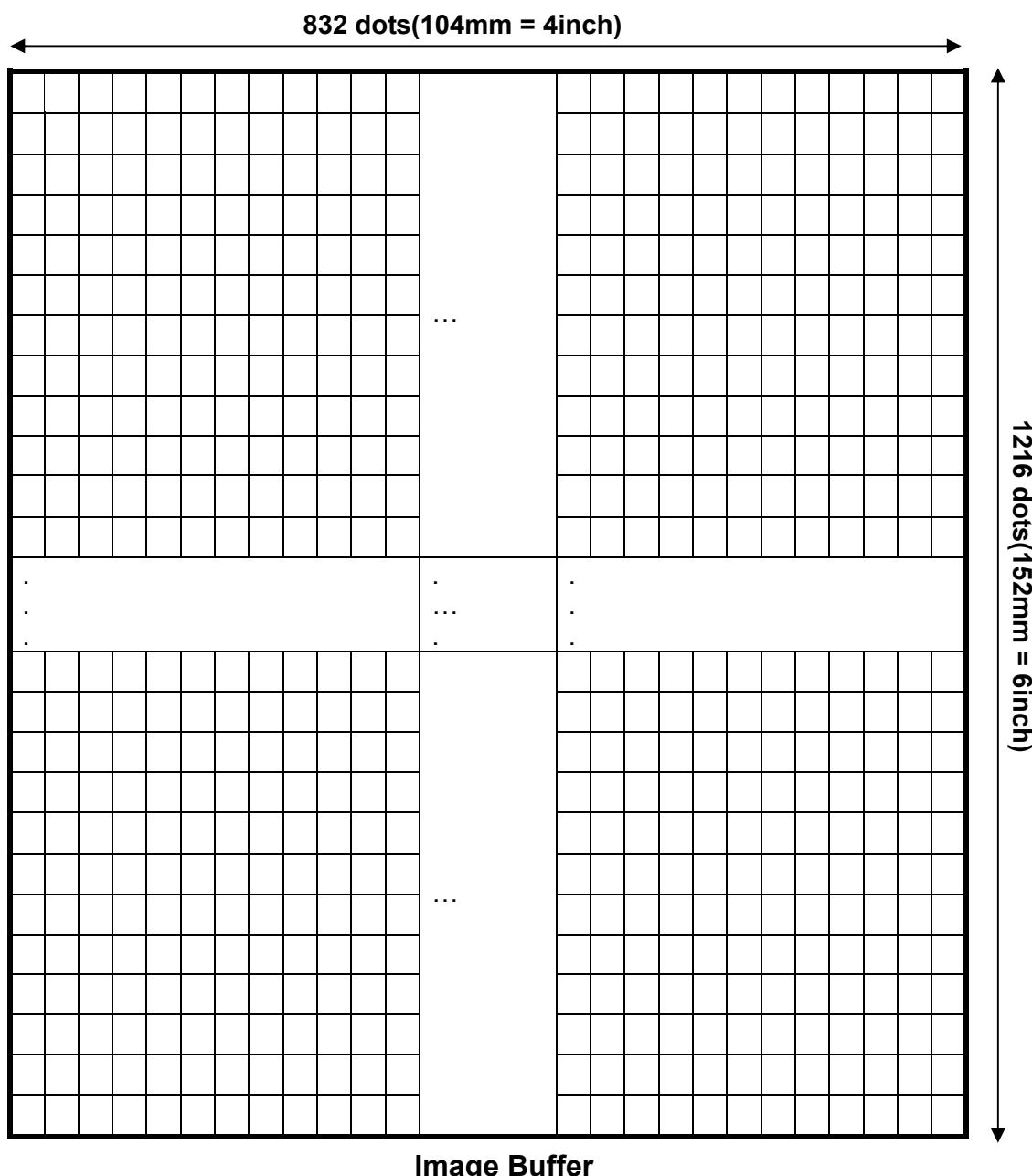
A) When using Double Buffering Function

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

B) When using Single Buffering Function

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

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



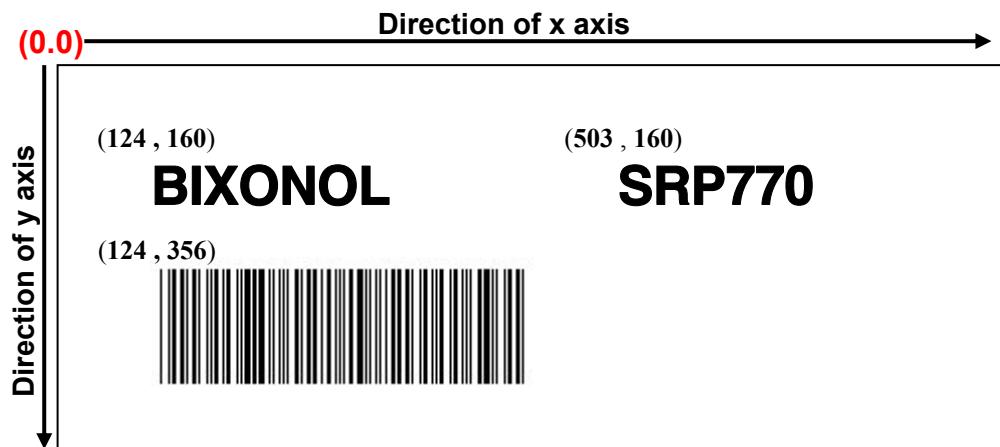
1-2 Information for calculating position on image buffer**1) Relation between position and number of dots**

| Inch | mm | dots | Resolution |
|------|-------|------|------------|
| 0.04 | 1 | 8 | 203 dpi |
| 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 | |
| 2.00 | 50.80 | 406 | |
| 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 | |

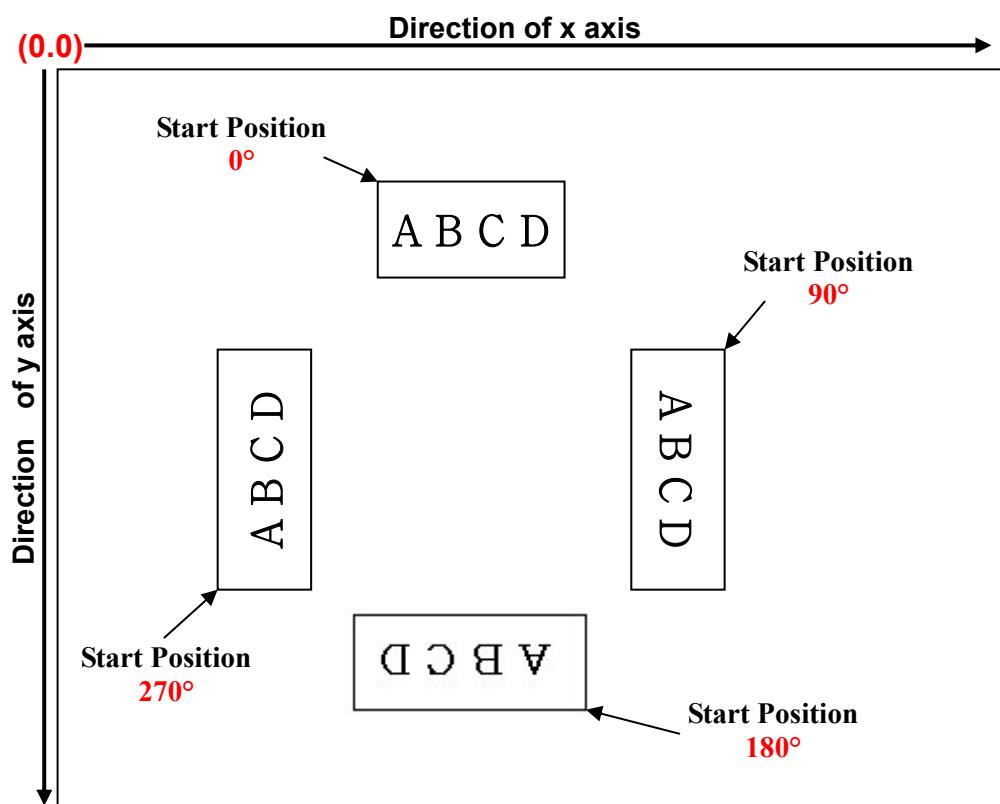
2) Font Information

| Font name | Width × Height (dots) |
|-----------|-----------------------|
| 0 | 09 × 15 |
| 1 | 12 × 20 |
| 2 | 16 × 25 |
| 3 | 19 × 30 |
| 4 | 24 × 38 |
| 5 | 32 × 50 |
| 6 | 48 × 76 |
| 7 | 22 × 34 |
| 8 | 28 × 44 |
| 9 | 37 × 58 |
| Korean a | 16 × 16(ascii:9×15) |
| Korean b | 24 × 24(ascii:12×24) |
| Korean c | 20 × 20(ascii:12×20) |
| Korean d | 26 × 26(ascii:16×30) |
| Korean e | 20 × 26(ascii:16×30) |
| Korean f | 38 × 38(ascii:22×34) |
| GB2312 m | 24 × 24(ascii:12×24) |
| BIG5 n | 24 × 24(ascii:12×24) |
| Vector | Scalable |

3) Example of text and barcode



4) Example of rotation



1-3 Command List

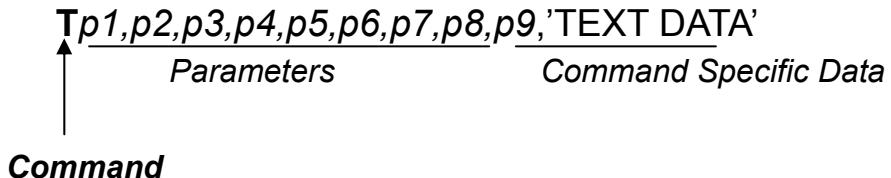
| Command | Description | Remarks | Page |
|---|-------------------------|---|------|
| 1. Commands for Designing Label | | | |
| T | Text | Draw text string on the image buffer | |
| V | Text (Vector Font) | Draw text string on the image buffer | |
| B1 | 1d barcode | Draw 1D Barcode on the image buffer | |
| B2 | 2d barcode | Draw 2D Barcode on the image buffer | |
| B3 | Special barcode | Draw special 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 | |
| P | Print | Start printing the content of image buffer | |
| | | | |
| 2. Media & Buffer related Commands | | | |
| ST | Set Print Type | Select Thermal Direct / Transfer printing. | |
| SM | Set Margin | Set the marginal value of the image buffer | |
| SF | Set Back-feed Option | Set back-feeding option. | |
| 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 | |
| CB | Clear Buffer | Clear image buffer | |
| | | | |
| 3. Printer Setting 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 related 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 in printer memory. | |
| TE | Template store End | | |
| 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 Data 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 | |
| BMP | BMP format file draw | Draw BMP format file on the image buffer | |
| | | | |
| 7. Downloadable Font Related Commands | | | |
| DS | Download Bitmap font | User made Bitmap font | |
| DT | Download True Type font | Windows system font used. | |
| DD | Downloadable font Delete | Delete downloaded font. | |
| DI | Downloadable font Information | Print the list of currently stored images | |
| | | | |
| 8. The Others | | | |
| @ | Reset printer | Initialize the printer | |
| PI | Printer Information | Print current setting of printer | |
| CUT | Enable/Disable Cutter option | Cutting is executed after Printing is finished if cutting option is enabled by this command. | |
| ^cp | Check Printer Status | Return 2 bytes status values to host. | |
| ^cu | Check Printer Status | Return 1 byte status value to host. | |
| ^PI | Send Printer information | Send various information to host. | |
| | | | |
| | | | |

1-4 Programming Considerations

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

- 2) Command Conventions



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

- 4) The commands which draw text, barcode, lines... just draw on the image buffer, they do not start printing. The printer will start printing when the P command comes.

! Caution

The 'P' command must be terminated by 'CR'(0x0d). If not, the printer will not start printing until 'CR' comes.

2. Detail Description

2-1 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) V

Draw **Text (Vector Font) String** on the image buffer.

3) B1

Draw **1D Barcode** on the image buffer.

4) B2

Draw **2D Barcode** on the image buffer.

5) B3

Draw **Special Barcode** on the image buffer.

6) BD

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

7) CD

Draw **Circle** on the image buffer.

8) CS

Set Code page and ICS(International Character Set).

9) P

Start printing the content of the image buffer.

2-1-1 T (Text String)

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 | 15 | 24 × 38 |
| 5 | 20 | 32 × 50 |
| 6 | 30 | 48 × 76 |
| 7 | 14 | 22 × 34 |
| 8 | 18 | 28 × 44 |
| 9 | 24 | 37 × 58 |
| a | KOREAN 1 | 16 × 16 (ascii 9×15) |
| b | KOREAN 2 | 24 × 24 (ascii 12×24) |
| c | KOREAN 3 | 20 × 20 (ascii 12×20) |
| d | KOREAN 4 | 26 × 26 (ascii 16×30) |
| e | KOREAN 5 | 20 × 26 (ascii 16×30) |
| f | KOREAN 6 | 38 × 38 (ascii 22×34) |
| m | GB2312 | 24 × 24 (ascii 12×24) |
| n | BIG5 | 24 × 24 (ascii 12×24) |
| j | Shift JIS | 24 × 24 (ascii 12×24) |

• A to Z are assigned to Downloadable font. Refer to DS command.

p4 : Horizontal multiplier : 1 ~ 4

p5 : Vertical multiplier : 1 ~ 4

p6 : Right-side character 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**

R: Write text sting form right to left.

(BIXOLON → NOLOXIB)

• 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,' BIXOLON 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 \\ .

Example

```
SM20,20  
T26,20,0,0,0,0,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

2-1-2 V (Text String Vector Font)**Description**

Draw text (Vector Font) string on the image buffer

Syntax

Vp1,p2,p3,p4,p5,p6,p7,p8,p9,p10,p11,p12, 'DATA'

Parameters

p1 : Horizontal position (X) [dot]

p2 : Vertical position (Y) [dot]

p3 : Font selection

U: ASCII (1Byte code)

K: KS5601 (2Byte code)

B: BIG5 (2Byte code)

G: GB2312 (2Byte code)

J: Shift-JIS (2Byte code)

p4 : Font width (W)[dot]

p5 : Font height (H)[dot]

p6 : Right-side character spacing [dot]

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

P7 : Bold

N : Normal B : Bold

p8 : Reverse printing

N: Normal printing R: Reverse printing

P9 : Text style

N: Normal I: Italic

P10 : Rotation

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

p11: Text Alignment (Optional)

L: p1 means the position of the first character in the text string - Left alignment

R: p1 means the position of the last character in the text string - Right alignment

C: p1 means the position of the center character in the text string - Center alignment

p12: Text string write direction

0: Write text string form left to right (BIXOLON)

1: Write text string form right to left (NOLOXIB)

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

- 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

```
V50,100,U,25,25,+1,N,N,N,0,L,0,'BIXOLON Label Printer'  
V50,200,U,35,35,-1,N,N,N,0,L,0, 'Manufacturer :'V00  
V50,300,U,35,35,+1,B,R,I,0,L,0, V00  
V50,400,U,45,25,+1,N,N,N,0,L,0,'Vector Font Test' C0  
V50,500,U,25,45,+1,N,N,N,0,L,0, C0
```

-
- * To print ' or \, \ or \ must be typed.**
-

Example

```
V50,100,U,25,25,+1,N,N,N,0,L,0,'Vector Font Test'  
V50,200,U,35,35,-1,N,N,N,0,L,0,'Vector Font Test'  
V50,300,U,35,35,+1,B,R,I,0,L,0,'Vector Font Test '  
V50,400,U,45,25,+1,N,N,N,0,L,0,'Vector Font Test'  
V50,500,U,25,45,+1,N,N,N,0,L,0,'Vector Font Test'  
V50,700,U,65,65,+1,N,N,N,0,L,0,'ABCDEFGHIJKLMNO'  
V50,900,U,65,65,+1,N,N,N,0,L,0,'abcdefghijklmno'  
P1
```

Result



2-1-3 B1 (1 Dimensional bar code)

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

| p3 | Barcode | p3 | 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 ~ 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 0.

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 used 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

SM20,20

B178,196,0,2,6,100,0,0,'1234567890' //Caution:The position is not (178,196) but
(78,196)

B150,468,0,4,10,200,0,0,'1234567890'

P1

Result



2-1-4 B2 (2 Dimensional bar code)

Description

Draw 2D Barcode on the image buffer

Syntax

B2p1,p2,p3.....'DATA'

Parameters

p1 : Horizontal position (X) [dot]

p2 : Vertical position (Y) [dot]

p3 : 2D barcode selection

| p3 | 2D Barcode |
|-----------|-------------------|
| M | MaxiCode |
| P | PDF417 |
| Q | QR Code |
| D | Data Matrix |

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

See the following pages for details of each 2D barcodes.

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 | 'lpm' |

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**

B2200,200,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

B2200,200,M,2,'999,840,06810,7317,THIS IS A TEST OF BIXOLON LABEL PRINTER SRP770. MODE 2 ENCODING. THIS IS AN 84 CHAR.'

3)Mode3

B2200,200,M,3,'999,056,B1050,7317,THIS IS A TEST OF BIXOLON LABEL PRINTER SRP770. MODE 3 ENCODING. THIS IS AN 84 CHAR.'

4)Mode4

B2200,200,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 ~ 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

| p7 | 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 ~ 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

B2100,750,P,30,5,0,0,1,1,3,10,0,' BIXOLON 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

| p6 | Recovery Rate |
|-----------|----------------------|
| L | 7% |
| M | 15% |
| Q | 25% |
| H | 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

B2200,100,Q,2,M,4,0,'ABCDEFGHIJKLMN1234567890' // The position is (200,100)

Data Matrix(When p3 is D)

p1 : Horizontal position (X) [dot]

p2 : Vertical position (Y) [dot]

p3 : D (the ECC 200 data quality format)

p4 : Barcode Size : 1 ~ 4;

P5 : Reverse

N: Normal

R: Reverse(or Inverse) – Reverse Video or Negative image

'DATA' : ASCII data or Binary data.

Example

B2200,100,D,2,N,'BIXOLON Label Printer' // The position is (200,100)

2-1-5 B3 (Special Barcode)**Description**

Draw Special Barcode on the image buffer

Syntax

B3p1,p2,p3.....'DATA'

Parameters

p1 : Horizontal position (X) [dot]

p2 : Vertical position (Y) [dot]

p3 : Special barcode selection

| p3 | Special Barcode |
|-----------|-------------------------------|
| I | IMB(Intelligent Mail Barcode) |

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

See the following pages for details of each special barcodes.

IMB (p3 = I)

p1 : Horizontal position (X) [dot]

p2 : Vertical position (Y) [dot]

p3 : I (means 'IMB')

p4 : Rotation

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

P5 : HRI :

0 : Not Printed

1 : Below the barcode

'DATA' : ASCII data or Binary data.

Example

B3100,100,I,0,1,'0123456709498765432101234567891' // The position is (100,100)

2-1-6 BD (Block Draw)

Description

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

Syntax

BDp1,p2,p3,p4,p5(,p6)

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

| p5 | Type | Additional p6 |
|-----------|-----------------------|---------------|
| O | Line Overwriting | Not necessary |
| E | Line Exclusive OR | Not necessary |
| D | Line Delete | Not necessary |
| S | Slope(a oblique line) | Thickness |
| B | Box | Thickness |

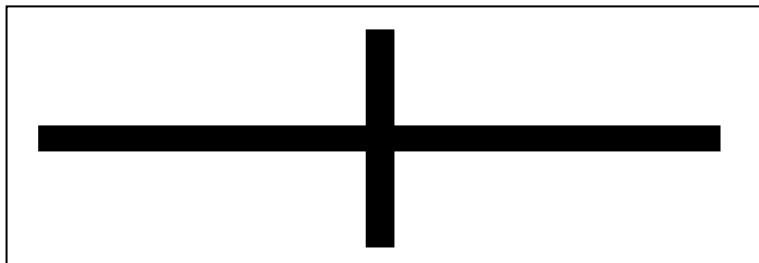
♣ If p5 is S or B, then additional p6 must follow p5.

Example

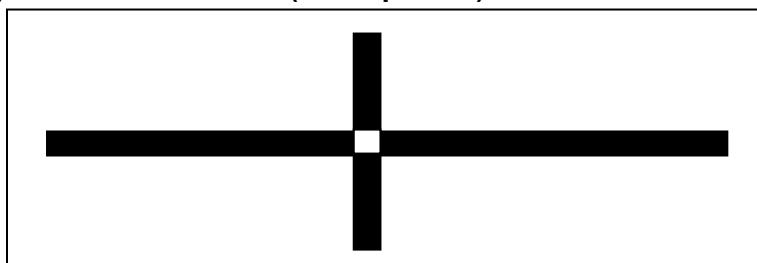
1) Start and end position



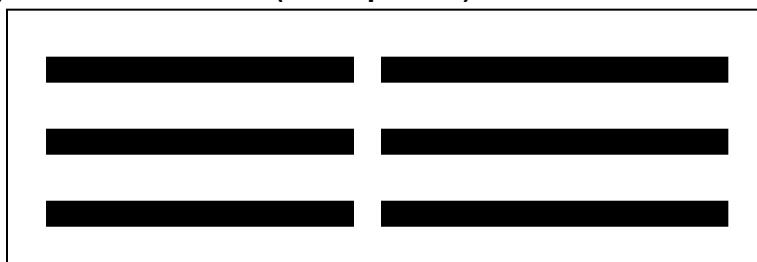
2) Overwriting mode(when p5 is O)



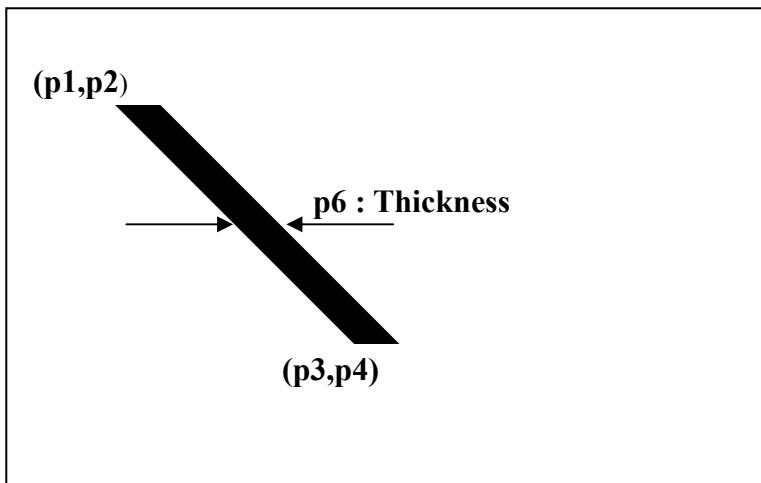
3) Exclusive OR mode(when p5 is E)



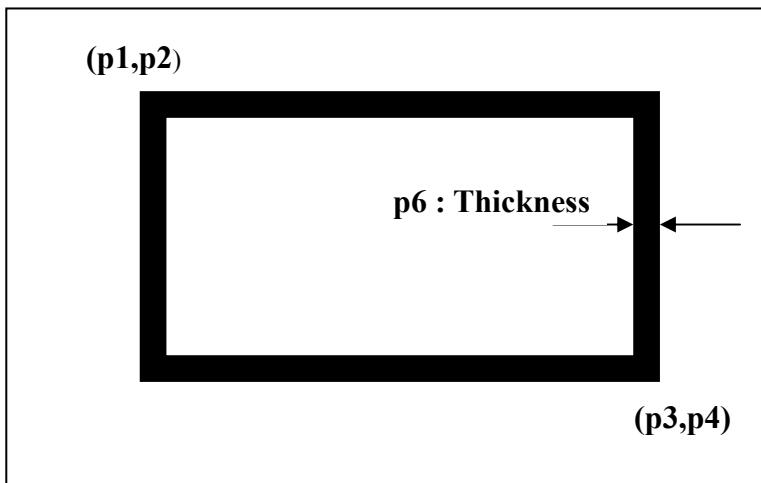
4) Delete block mode(when p5 is D)



5) Slope block mode(when p5 is S)



6) Draw box mode(when p5 is B)



2-1-7 CD (Circle Draw)**Description**

Draw Circle on the image buffer

Syntax

CDp1,p2,p3,p4

Parameters

p1 : Horizontal start position (X) [dot]

p2 : Vertical start position (Y) [dot]

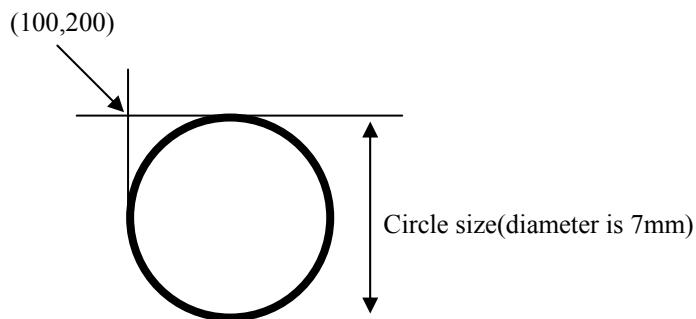
p3 : Circle Size Selection

| 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

CD100,200,2,1



2-1-8 CS (Character Set selection)

Description

To select international character set and code table.

Syntax

CS*p1,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 Pages

| p2 | Code Table | Language |
|-----------|-------------------|-------------------|
| 0 | CP437 | U.S.A |
| 1 | CP850 | Latin1 |
| 2 | CP 852 | Latin2 |
| 3 | CP 860 | Portuguese |
| 4 | CP 863 | Canadian French |
| 5 | CP 865 | Nordic |
| 6 | WCP 1252 | Latin I |
| 7 | CP 865 + WCP 1252 | European Combined |
| 8 | CP 857 | Turkish |
| 9 | CP 737 | Greek |
| 10 | WCP 1250 | Latin 2 |
| 11 | WCP 1253 | Greek |
| 12 | WCP 1254 | Turkish |
| 13 | CP 855 | Cyrillic |
| 14 | CP 862 | Hebrew |
| 15 | CP 866 | Cyrillic |
| 16 | WCP 1251 | Cyrillic |
| 17 | WCP 1255 | Hebrew |
| 18 | CP 928 | Greek |
| 19 | CP 864 | Arabic |
| 20 | CP 775 | Baltic |
| 21 | WCP1257 | Baltic |
| 22 | CP858 | Latin 1 + Euro |

♣ 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 |

| Country | International Character Set | | | | | | | | | | | | |
|------------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 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 | # | \$ | @ | [| \ |] | ^ | ` | { | | } | ~ | |
| France | # | \$ | à | ° | ç | § | ^ | ` | é | ù | è | ” | |
| Germany | # | \$ | § | Ä | Ö | Ü | ^ | ` | ä | ö | ü | ß | |
| U.K. | £ | \$ | @ | [| \ |] | ^ | ` | { | | } | ~ | |
| Denmark I | # | \$ | @ | Æ | Ø | Å | ^ | ` | æ | ø | å | ~ | |
| Sweden | # | ¤ | É | Ä | Ö | Å | Ü | é | ä | ö | å | ü | |
| Italy | # | \$ | @ | ° | \ | é | ^ | ù | à | ò | è | ì | |
| Spain | Pts | \$ | @ | i | Ñ | ¿ | ^ | ` | ” | ñ | } | ~ | |
| Norway | # | ¤ | É | Æ | Ø | Å | Ü | é | æ | ø | å | ü | |
| Denmark II | # | \$ | É | Æ | Ø | Å | Ü | é | æ | ø | å | ü | |
| Japan | # | \$ | @ | [| ¥ |] | ^ | ` | { | | } | ~ | |
| Spain II | # | \$ | á | i | Ñ | ¿ | é | ` | í | ñ | ó | ú | |
| Latin America | # | \$ | á | i | Ñ | ¿ | é | ü | í | ñ | ó | ú | |
| Korea | # | \$ | @ | [| \ |] | ^ | ` | { | | } | ~ | |
| Slovenia/Croatia | # | \$ | ž | š | Đ | Ć | Č | ž | š | đ | ć | č | |
| China | # | ¥ | @ | [| \ |] | ^ | ` | { | | } | ~ | |

| ASCII Code | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F | |
|---------------|-----|---|---|---|----|---|---|---|---|---|---|---|---|---|---|-----|---|
| | 0 | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | |
| | 16 | | | | | | | | | | | | | | | | |
| | 2 | ! | " | # | \$ | % | & | ' | (|) | * | + | , | - | . | / | |
| | 32 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | = | > ? | |
| | 48 | @ | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| | 64 | P | Q | R | S | T | U | V | W | X | Y | Z | [|] | ^ | _ | ' |
| | 80 | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p |
| | 96 | q | r | s | t | u | v | w | x | y | z | { | | } | ~ | ⌂ | |
| | 112 | | | | | | | | | | | | | | | | |

* Refer to the “Code Pages Manual” for more extension code pages table.

2-1-9 P (Print)

Description

Let the printer start printing the content of image buffer

Syntax

P*p1,[p2]*

Parameters

p1 : Number of label sets : 1 ~ 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 should be terminated by 'CR'(0x0d). If not, the printer will not start to print until 'CR' comes.

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
P3,2                                         // 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
PVV01,V02                                  // PV command can be used inside the template
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
3                                           // Content of variable V00
2                                           // Content of variable V00
// As soon as all contents of variables are entered'
// printer will starts printing

```

2-2 Media & Buffer Related Commands

1) ST

Select Thermal Direct/Transfer Printing.

2) SM

Set marginal value in label(Image buffer)

3) SF

Set back-feed option.

4) SL

Set label(Image buffer) length

5) SW

Set label(Image buffer) width

6) SB

Set buffer mode(Enable or disable Double Buffering)

7) CB

Clear Image Buffer

2-2-1 ST (Set Printing Type)

Description

Select Thermal Direct Printing or Thermal Transfer Printing.

Syntax

ST*p1*

Parameters

p1 : Direct Thermal / Thermal Transfer

- d : Direct Thermal
- t : Thermal Transfer

2-2-2 SM (Set Margin)

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*p1,p2*

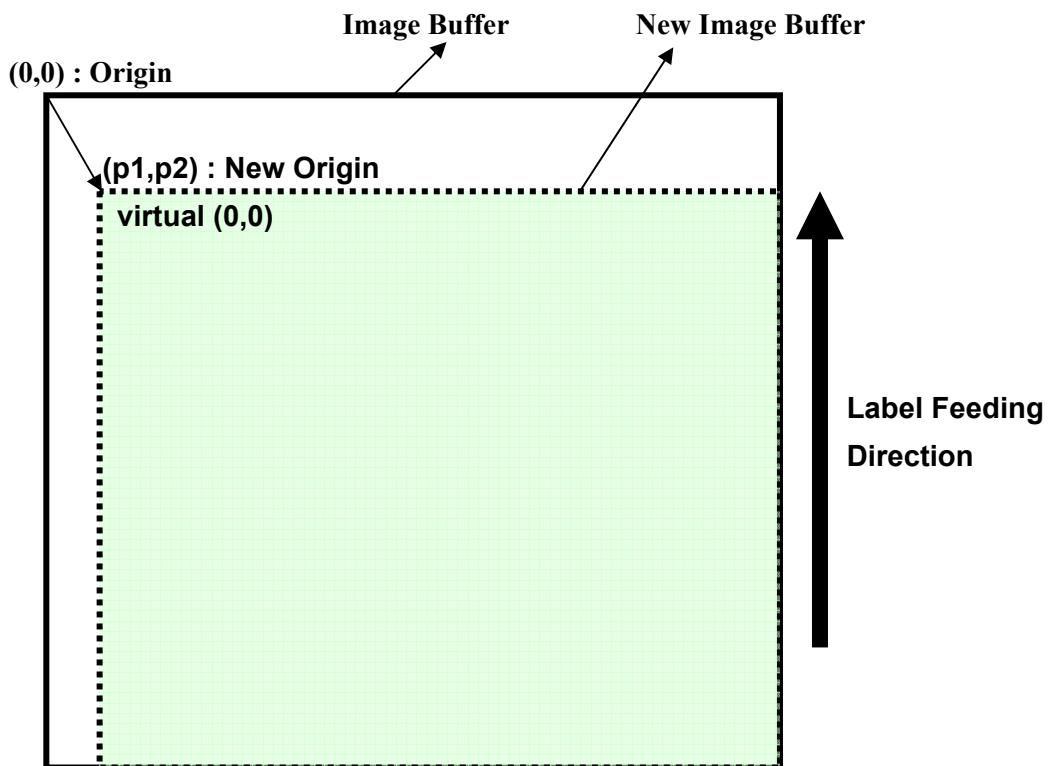
Parameters

p1 : Horizontal margin [dots]

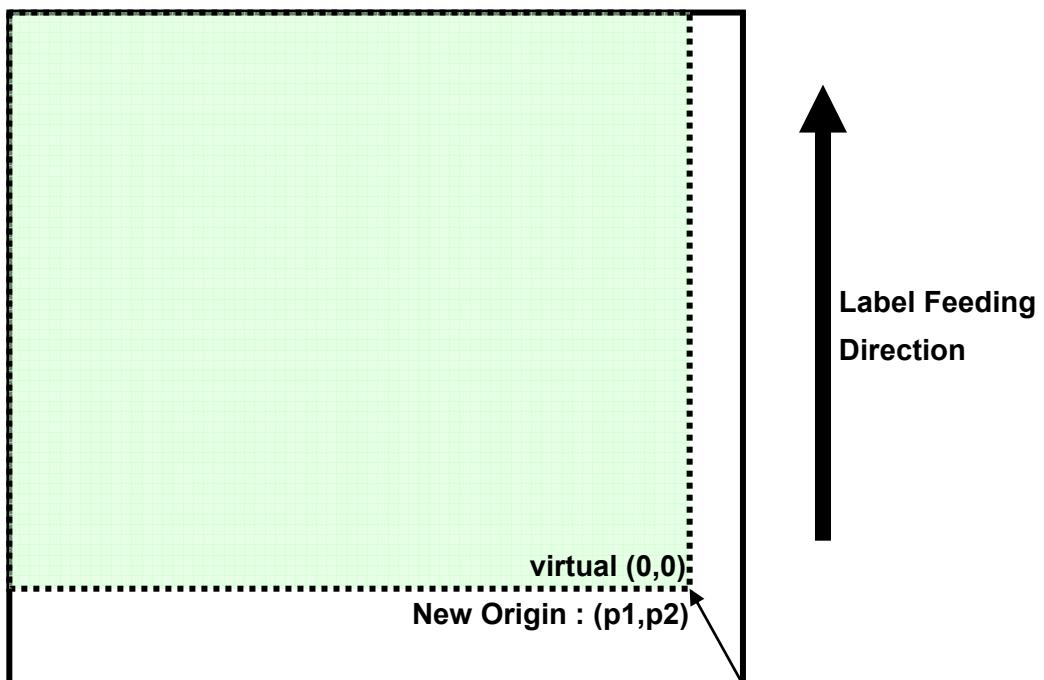
p2 : Vertical margin [dots]

♣ 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.**



2-2-3 SF (Set Back-Feed Option)

Description

Set back-feed option.

This command decides whether printer does back-feed action before starting printing.

Syntax

SFp1,(p2)

Parameters

p1 : Enable/Disable

- 0 : Disable back-feed option.
- 1 : Enable back-feed option(Default)

p2 : Back feeding step quantity.

- This parameter is valid when p1 is 1.
- The step quantity defined by user can't exceed printer's default feeding quantity.
- 0 means printer's default feeding quantity.

♣ This option is useful for the continuous paper or black mark media with perforation line away from black mark.

♣ The printer's default back feeding step quantity depends on the printer models and printer modes such as normal, peeler or cutter.

Examples)

| | |
|---------|--|
| SF0 | → Disable Printer's back-feeding option. |
| SF1 | → Default quantity of Back feed is executed before printing. |
| SL1,0 | → Default quantity of Back feed is executed before printing. |
| SL1,100 | → 100 step's Back feed is executed before printing. |
| SL0,100 | → Back feed is disabled and p2(100) is ignored. |

2-2-4 SL (Set Length)

Description

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

Syntax

SLp1,p2,(p3),(p4)

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.

• 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

| p3 | Media type |
|-----------|-------------------|
| G | Gap |
| C | Continuous |
| B | 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.

p4 : Offset Length between Black Mark(or Gap) and perforation line [dots]

• This parameter is valid when p3 parameter is used.

Examples)

SL1200,20 → Gap media,Media length:1200dots,Gap length:20dots

SL1200,20,C → Continuous media,Media length:1200dots,Gap length:20dots

SL1200,20,G → Gap media,Media length:1200dots,Gap length:20dots

SL1200,20,B → Black Mark media,Media length:1200dots,Gap length:20dots

The perforation line is on the black mark.

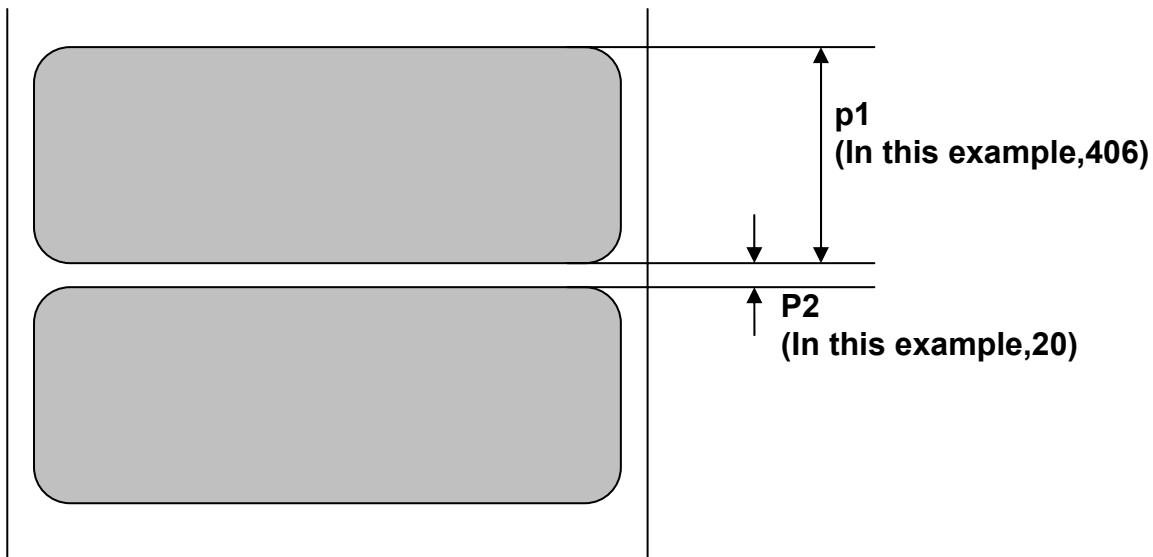
SL1200,20,B,200 → Black Mark media,Media length:1200dots,Gap length:20dots

The perforation line is 200 dots behind from black mark.

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

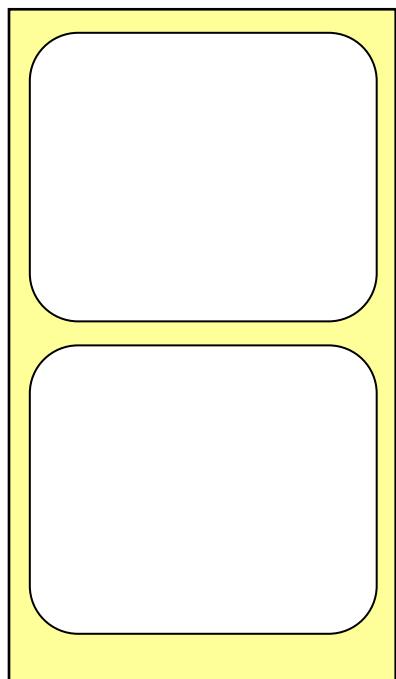
Example – p1 & p2(Length)

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

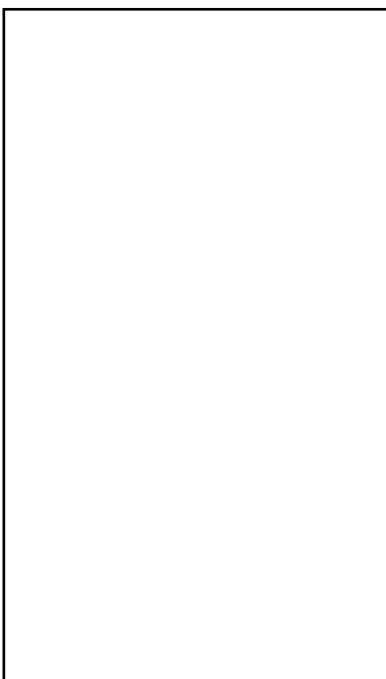


Example – p3(Media Type)

1. Gap Type



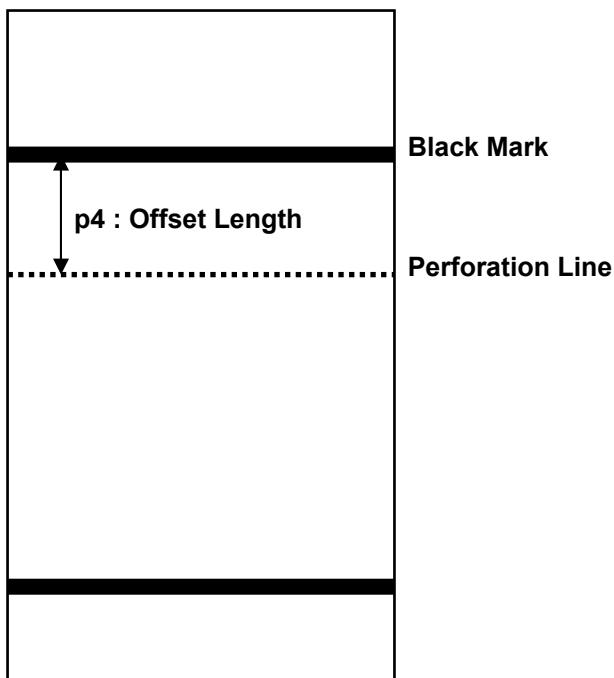
2. Continuous Type



3. Black Mark Type



Example – p4(Offset Length)



2-2-5 SW (Set Width)

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.

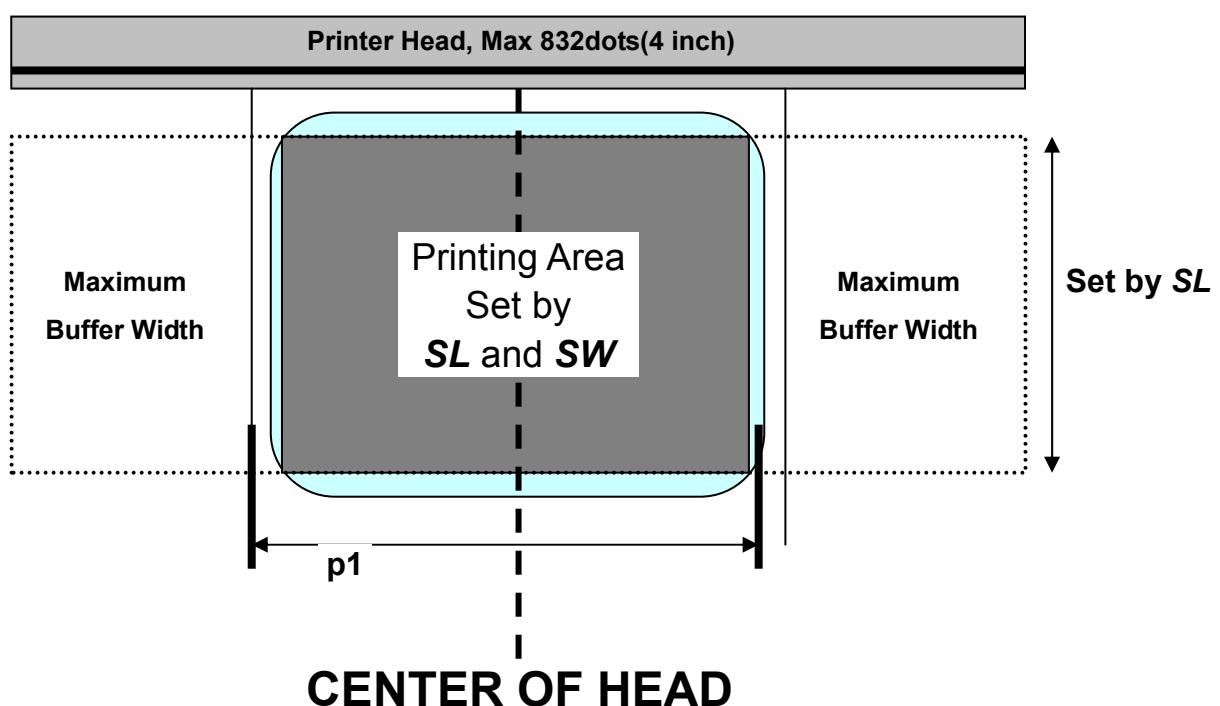
◆ SRP770 is the center aligned printer and media is positioned in the center of the

head.

Example

SW406

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



2-2-6 SB (Set Buffer mode)

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 the image buffer for the next label while printing the current label.

♣ Double buffering feature can be used only if the label length set by SL is less than half of the maximum label length.

2-2-7 CB (Clear Buffer)

Description

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

Syntax

CB

Example

CB // Clear Image Buffer

2-3 Printer Setting Commands

1) SS

Set printer speed

2) SD

Set printing density

3) SO

Set printing orientation

4) SP

Set serial port

2-3-1 SS (Set Speed)

Description

Set print speed

Syntax

SSp1

Parameters

p1 : Speed set value

| Value | Speed |
|-------|---------|
| 0 | 2.5 ips |
| 1 | 3.0 ips |
| 2 | 4.0 ips |
| 3 | 5.0 ips |
| 4 | 6.0 ips |
| 5 | 7.0 ips |
| 6 | 8.0 ips |

2-3-2 SD (Set Density)

Description

Set printing density

Syntax

SDp1

Parameters

p1: Density Level

- **0 ~ 20** (0 is the lowest density)

2-3-3 SO (Set Orientation)

Description

Set printing direction

Syntax

SO*p1*

Parameters

p1 : Printing direction

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

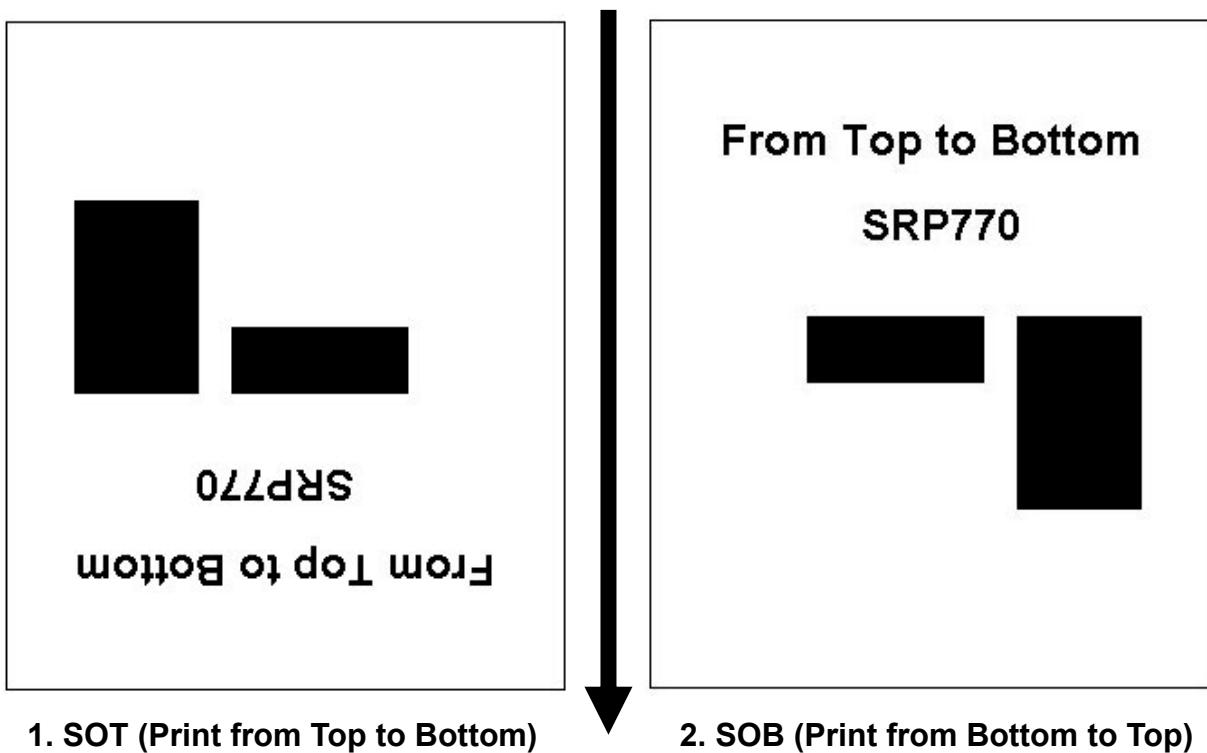
B : Print from bottom to top

Example

SOT // Print from top of the image buffer to bottom.

SOB // Print from bottom of the image buffer to top.

Printing Direction



2-3-4 SP (Set Port)

Description

Set serial port.

Syntax**SP***p1,p2,p3,p4***Parameters****p1** : Baud rate

| Value | Baud Rate(bps) |
|-------|----------------|
| 0 | 9,600 |
| 1 | 19,200 |
| 2 | 38,400 |
| 3 | 57,600 |
| 4 | 115,200 |

p2 : Parity

| Value | Parity |
|----------|---------------------------|
| O | Odd parity |
| E | 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 |

2-3-5 SA (Set Offset)

Description

Save (set) offset length between black marks (or gap) and dotted lines [dots]

Syntax

SAp1

Parameters

p1 : -100~100

◆ Offset values saved via the use of SA commands are stored permanently on the printer.

(Offset values saved via the cf. SL command are reset after the power is turned off.)

2-4 Variable Related Commands

1) SC

Counters which is used in template sequence

2) AC(Auto Counter)

Counters which is used in normal commands sequence
(outside of template sequence)

3) SV

Set variable

4) ?

Get data for counter and variable

5) PV

Print with variables

2-4-1 SC (Set Counter)

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 ~ 9

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

p2: The size of the field which displays the content of counter : 1 ~ 27

p3: Justification in field(Field size is p2)

| Value | Justification |
|-------|---------------|
| N | No |
| R | Right |
| L | Left |
| C | Center |

p4 : Step Value : ±1 ~ ±9

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

'Prompt': This text string is transmitted to host(PC) by serial interface in order to give information to host about the declared counter.

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

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

Example

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

2-4-2 AC (Auto Counter)

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 ~ 9

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

p2 : The size of the field which displays the content of counter : 1 ~ 27

p3 : Step Value : ±1 ~ ±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' // Please input the start value of counting between ‘ marks

AC1,7,+1,'1234567'

T100,100,3,1,1,0,0,N,N,C0

B1100,400,0,2,7,100,0,1,12,C1

P3,1

2-4-3 SV (Set Variable)

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 |
|-------|---------------|
| N | No |
| R | Right |
| L | Left |
| C | 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.
 - ♣ Variable is entered to data field like V00 or V01.
-

Example

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

2-4-4 ? (Get Variables)

Description

Use this command to get the content of variables or counters

Syntax

?

Content of variable

♣ Data must be entered in ascending order

Example

```

TS'Template1'                                // Template Store Start
SV00,20,N'Enter Company Name : '           // Declare(Set) variable V00
SV01,15,N'Enter Product Code : '          // Declare(Set) variable V01
T50,30,3,1,1,0,0,N,N,V00                  // Use T command to print V00
T50,150,3,1,1,0,0,N,N,'Code : 'V01        // Use T command to print V01
TE                                         // Template Store End

```

```

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

```

Result

| |
|------------|
| SEM |
| Code : 770 |

2-4-5 PV (Print with Variables)

Description

This command is used in template sequence.

The parameters are given by variables.

Syntax

PVp1,[p2]

Parameters

p1 : Number of label sets : 1 ~ 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 :'     // Declare(Set) variable V01
SV02,5,N,'Input Number of label copies :'    // Declare(Set) variable V02
T50,30,3,1,1,0,0,N,N,V00                     // Write V00 to image buffer
PVV01,V02                                 // Print V00, V02 copies, V01 sets
TE                                         // 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. *****

2-5 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 the list of all templates stored in memory.

2-5-1 TS (Template store Start)

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.

2-5-2 TE (Template store End)

Description

End template sequence storing

Syntax

TE

♣ 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
```

2-5-3 TR (Template Recall)

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

2-5-4 TD (Template Delete)

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'           // Delete 'Template1'  
TD*                   // Delete all currently stored templates
```

2-5-5 TI (Template Information)

Description

Print list of currently stored templates and available memory space

Syntax

TI

Example

TI

Result

```
Templates Information  
=====  
1. Template1  
2. Template2  
Available template memory : 53Kbyte
```

2-6 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.

2-6-1 IS (Image Store)

Description

Download PCX format Image file into the Printer Memory

Syntax

IS*p1,'Image name'DATA OF *.PCX*

Parameters

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

'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.

DATA OF *.PCX : Binary data string of PCX file.

2-6-2 IR (Image Recall)

Description

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

Syntax

IR*p1,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' // Recall 'Image1'

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

2-6-3 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'           // Delete 'Image1'  
ID*                  // Delete all currently stored images
```

2-6-4 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
```

2-6-5 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 = $xH * 256 + xL$

yL : **Low byte** of vertical **start position (Y)** [dot]

yH : **High byte** of vertical **start position (Y)** [dot]

→ Start position in y direction = $yH * 256 + yL$

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 = $dhH * 256 + dhL$

dvL : **Low byte** of the **number of lines.**

dvH : **High byte** of the **number of lines.**

→ Number of data in y direction = $dvH * 256 + dvL$

d1~dk : **bitmap image data.**

→ $k = (dhH*256 + dhL) * (dvH*256 + dvL)$

! CAUTION

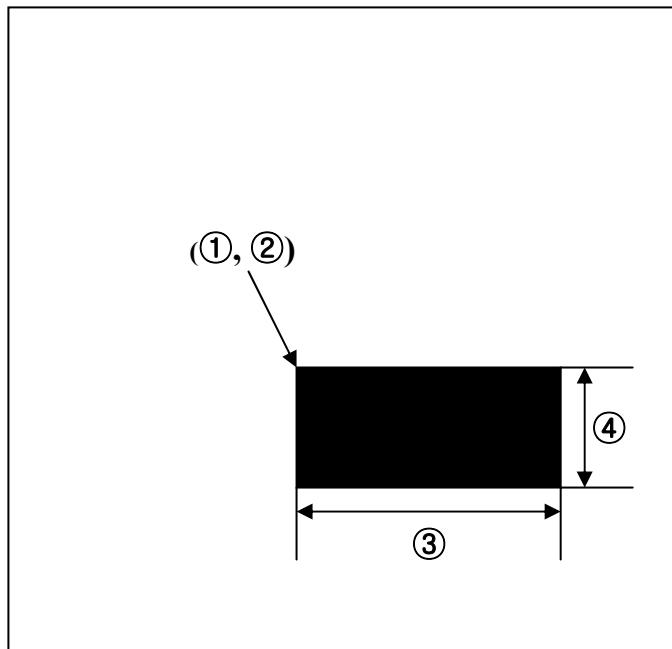
There are no commas(,) and no space between each parameters.

Example

LD 0x11 0x02 0x40 0x02 0x08 0x00 0x20 0x00 0xFF ~ 0xFF

① ② ③ ④ ⑤

- ① x position : $0x02 * 0x100(256) + 0x11 = 0x211(529)$
- ② y position : $0x02 * 0x100(256) + 0x40 = 0x240(576)$
- ③ horizontal data number : $0x00 * 0x100(256) + 0x08 = 0x08(8)$
- ④ vertical data number : $0x00 * 0x100(256) + 0x20 = 0x20(32)$
- ⑤ bitmap data : total number = $8 * 32 = 256$



2-6-6 BMP

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

Syntax

**BMP p1,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 ↓

2-7 Downloadable 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) DT

Download True Type Font into Printer Memory

2) DD

Delete downloaded fonts from memory

3) DI

Print all downloaded fonts in memory and available memory space.

2-7-1 DT (Download True Type Font)

Description

Download windows system font into printer memory.

Syntax

DTp1,p2,'Font Name' a₁b₁(DATA₁)a₂b₂(DATA₂)...a_nb_n(DATA_n)

Parameters

p1 : Total number of characters to be downloaded: 0~255

p2 : Font Height: 0~255

Font name : A ~ Z

a_n : Character position in ASCII Table(0~255)

b_n : Font width(dots)

(DATA_n) : Character Bitmap Data

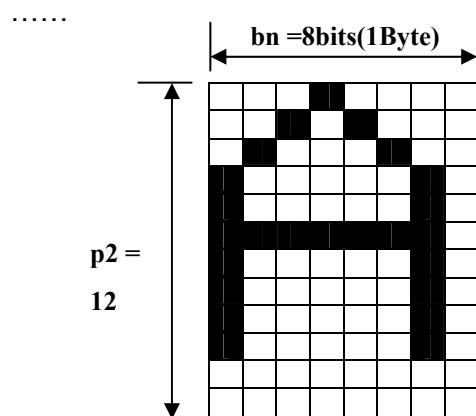
Total bytes of bitmap data : **p2** × (b_n+7)/8 bytes

Example

44 44 2a 0d 0a 44 54 60 14 27 41 27
 ↑ ↑ ↑
 p1 p2 Font name
 20 0b
 ↑ ↑ ↑
 a₁ b₁ DATA₁ : p2 × (b₁+7)/8 bytes

DD*..DT..'A'

21 0c
 ↑ ↑ ↑
 a₂ b₂ DATA₂ : p2 × (b₂+7)/8 bytes



Number of DATA_n = 12 × (8+7)/8 = 12 Bytes

2-7-2 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 A  
DD*           // Delete all downloaded fonts in memory
```

2-7-3 DI (Downloaded font Information)

Description

Print list of downloaded font.

Syntax

DI

Example

DI

Result

```
Download Font Information
=====
Name      w     h     c      Size
=====
C         16    25   128   6400
G         12    24   224  10752
Free Memory           179419
=====
```

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

2-8 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.

5) ^cu

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

6) ^PI

Send various printer information to host.

2-8-1 @ (Initialize Printer)

Description

Initialize the printer

Syntax

@

2-8-2 PI (Printer Information)

Description

Print current printer setting.

Syntax

PI

2-8-3 CUT (Auto-cutter Enable/Disable)

Description

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

Syntax

CUTp1(,p2)

Parameters

p1 : Cutting Action Enable/Disable

 y : Enable cutter to act after printing is finished.

 n : Disable cutter.

p2 : Cutting Period

 ♣ Cutting Period means the number of pages between two cuttings.

♣ 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.*

♣ Last page is always cut.

Example – p1(Cutter Enable/Disable)

| Cutting is executed after Printing is finished | Cutting is not executed after Printing is finished |
|--|--|
| T20... B130... BD... ... CUTy P1 | T20... B130... BD... ... CUTn P1 |

Example – p2(Cutting Period)

| | |
|--------|----------------------|
| CUTy | // Cut every page |
| CUTy,1 | // Cut every page |
| CUTy,2 | // Cut every 2 pages |
| CUTy,4 | // Cut every 4 pages |

2-8-4 ^cp (Check Printer Status and Report 2 bytes)

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 | Hex |
|---------------|-----|--|------|
| Byte | bit | | |
| 1st Byte | 7 | Paper Empty | 0x80 |
| | 6 | Cover Open | 0x40 |
| | 5 | Cutter jammed | 0x20 |
| | 4 | Thermal Head(TPH) overheat. | 0x10 |
| | 3 | Gap Detection Error(Auto-sensing failure) | 0x08 |
| | 2 | Ribbon End Error | 0x04 |
| | 1 | Not assigned | 0x02 |
| | 0 | Not assigned | 0x01 |
| 2nd Byte | 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 |
| | 4 | Not assigned | 0x10 |
| | 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). |

2-8-5 ^cu (Check Printer Status and Report 1 byte)

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 | Hex |
|----------------------|------------|---|------------|
| Byte | bit | | |
| 1st Byte | 7 | Paper Empty | 0x80 |
| | 6 | Cover Open | 0x40 |
| | 5 | Cutter jammed | 0x20 |
| | 4 | Thermal Head(TPH) overheat. | 0x10 |
| | 3 | Gap Detection Error(Auto-sensing failure) | 0x08 |
| | 2 | Ribbon End | 0x04 |
| | 1 | Not assigned | 0x02 |
| | 0 | Not assigned | 0x01 |

2-8-6 ^PI (Send Printer information to host)

Description

Send various printer information such as model name, firmware version, statistics data or so to host.

Syntax

^PIp1(,p2)(,p3)

Parameters

p1 : items to be reported.

0 : Model Name

1 : Model Type : Disabled

2 : F/W Version

4 : Mechanical conditions of printer

| p2 | Item | Unit |
|-----------|-----------------|-------------|
| 0 | TPH temperature | °C |

Return Value Format

| Items | Return Format | Example |
|-----------------|--------------------------------|-------------------------|
| Model Name | Character String + 0x0d + 0x0a | “SRP-770” + 0x0d + 0x0a |
| Model Type | Disabled | |
| F/W Version | Character String + 0x0d + 0x0a | “1.23” + 0x0d + 0x0a |
| TPH temperature | Character String + 0x0d + 0x0a | “85” + 0x0d + 0x0a |

3. Programming Example

3-1 Example) T_resident

```
SS3                                // Set Speed to 4 ips  
SD20                             // Set Density level to 20  
SW800                            // Set Label Width 800  
SOT                               // Set Printing Orientation from Top to Bottom  
T26,20,0,1,1,0,0,N,N,'Font - 6 pt'  
T26,49,1,1,1,0,0,N,N,'Font - 8 pt'  
T26,81,2,1,1,0,0,N,N,'Font - 10 pt'  
T26,117,3,1,1,0,0,N,N,'Font - 12 pt'  
T26,156,4,1,1,0,0,R,N,'Font - 15 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
```

Result

Font – 6 pt
Font – 8 pt
Font – 10 pt
Font – 12 pt
Font – 15 pt

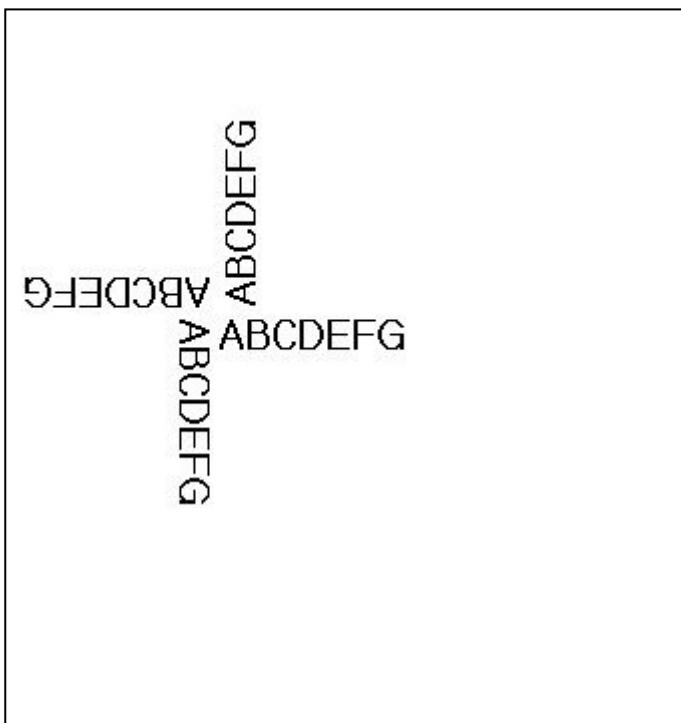
Font – 20 pt

Font – 30 pt

3-2 Example) T_Rotate4

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



3-3 Example) V_resident

```
SS3                                // Set speed to 4 ips
SD20                               // Set density to 20
SW800                               // Set label width to 800
SOT                                 // Set printing direction to from top to bottom
V50,100,U,25,25,+1,N,N,N,0,L,0,'Vector Font Test'
V50,200,U,35,35,-1,N,N,N,0,L,0,'Vector Font Test'
V50,300,U,35,35,+1,B,R,I,0,L,0,'Vector Font Test '
V50,400,U,45,25,+1,N,N,N,0,L,0,'Vector Font Test'
V50,500,U,25,45,+1,N,N,N,0,L,0,'Vector Font Test'
V50,700,U,65,65,+1,N,N,N,0,L,0,'ABCDEFGHIJKLMNO'
V50,900,U,65,65,+1,N,N,N,0,L,0,'abcdefghijklmno'
P1
```

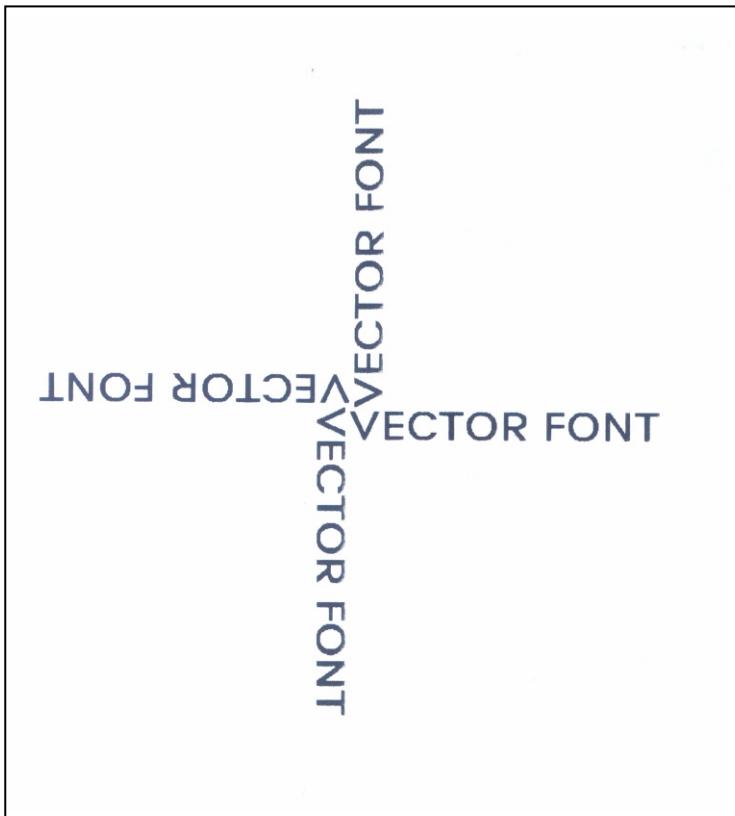
Result



3-4 Example) V_Rotate4

```
SS3
SW832
V400,500,U,45,40,+1,N,N,N,0,L,0,'VECTOR FONT'
V400,500,U,45,40,+1,N,N,N,1,L,0,'VECTOR FONT'
V400,500,U,45,40,+1,N,N,N,2,L,0,'VECTOR FONT'
V400,500,U,45,40,+1,N,N,N,3,L,0,'VECTOR FONT'
P1
```

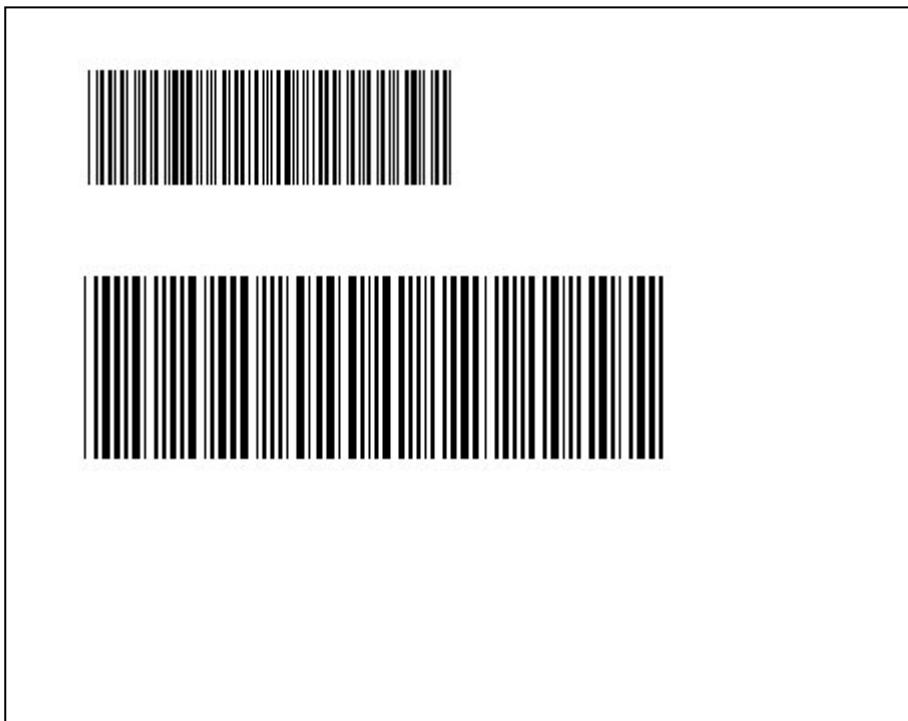
Result



3-5 Example) Code39

```
SM10,0  
B178,196,0,2,6,100,0,0'1234567890' // Caution : The position is not (178,196)  
but (78,196).  
B150,468,0,4,10,200,0,0'1234567890'  
P1
```

Result



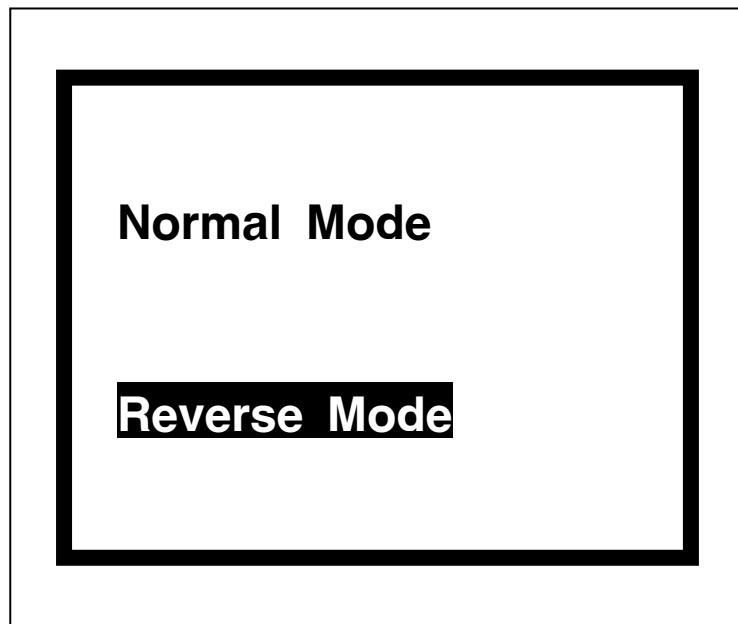
3-6 Example) BD1

```
SS3          // Set Speed to 4 ips  
SD20         // Set Density level to 20  
SW800        // Set Label Width to 800
```

```
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



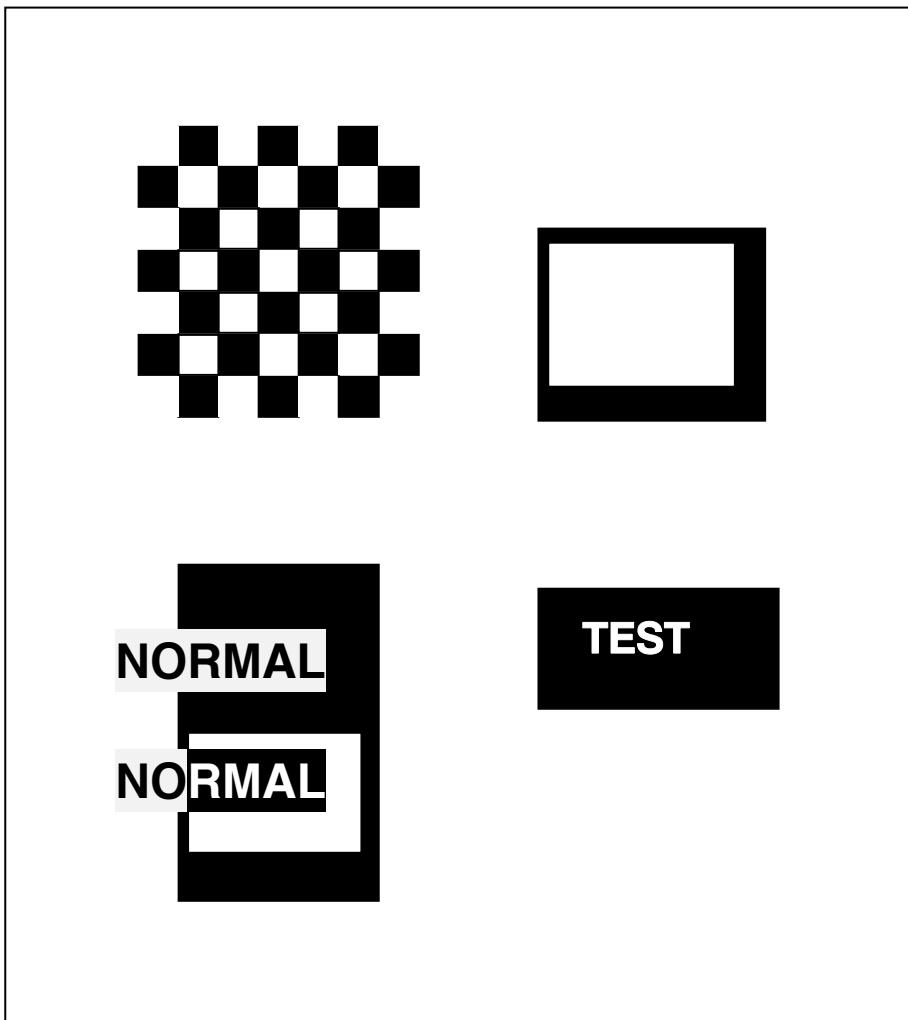
3-7 Example) BD3

```
SS3                                // Set Printing Speed to 4 ips
SD20                               // Set Printing Density level to 20
SW800                              // Set Label Width to 800

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                                 // Start Printing
```

Result



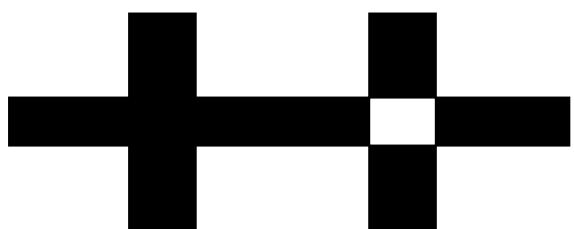
3-8 Example) BD4

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

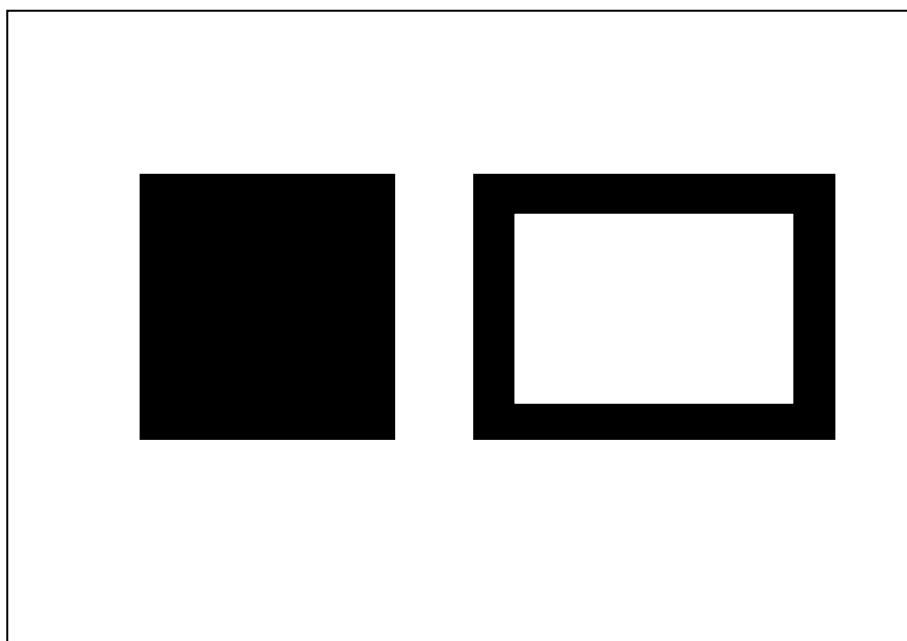
Result



3-9 Example) BD5

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

Result



3-10 Example) Slope

CB
SS3
SD20
SW8000

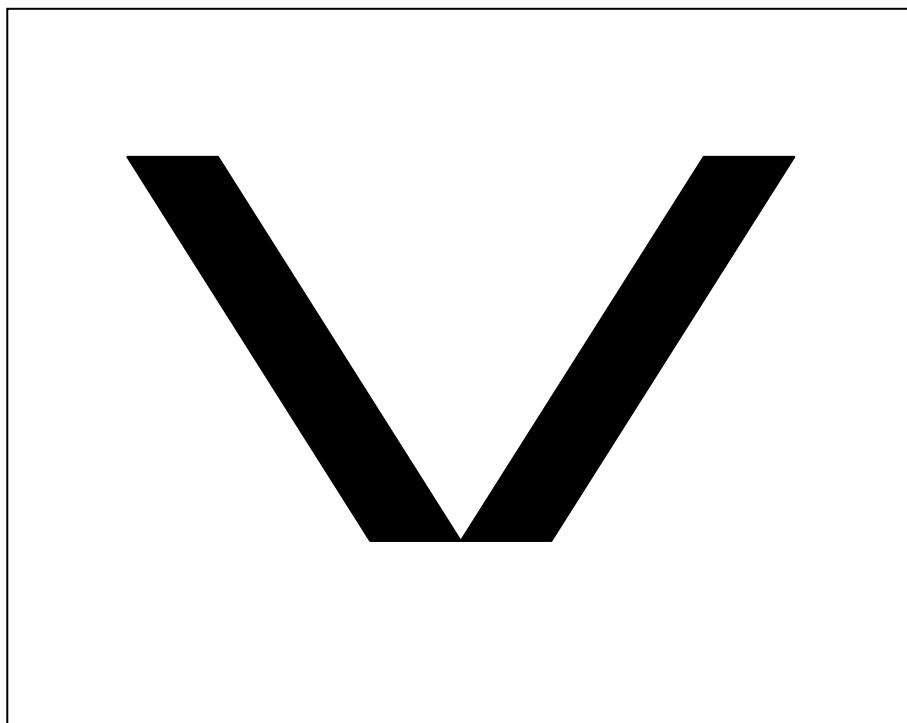
BD100,300,300,800,**S,100**

// Slope mode, additional parameter follows

BD600,300,400,800,**S,100**

P1

Result



3-11 Example) SW&SL

CB

SS3

SD20

SW800 // Set Label Width to 800

SL300,10,C // Continuous type

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

**SW = 600, SL=500,
Continuous**

**SW= 400,
SL = 800,
Continuous**

3-12 Example) TEST00_TS

```
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
```

Result

| Templates Information ===== | |
|--------------------------------------|---------------------|
| 1. Test 1 ↵ | Stored in past time |
| 2. Test0 ↵ | Stored in this time |
| Available template memory : 5.3Kbyte | |

3-13 Example) TEST00_TR

```
TR'Test00'                                // Recall Stored template 'Test00'  
  
?  
SEM                                         // Content for V00  
SRP770                                       // Content for V01  
  
P1                                           // Print
```

Result

| | | |
|--------------------|----------|---------------------|
| Manufacturer : SEM | ← | No Justification |
| Model Name : | SRP770 ← | Right Justification |
| SEM ← | | Right Justification |
| SRP770 ← | | No Justification |

3-14 Example) TEST04_TS

```
TS'Test04'                                // Start Template Store

CB                                         // 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)

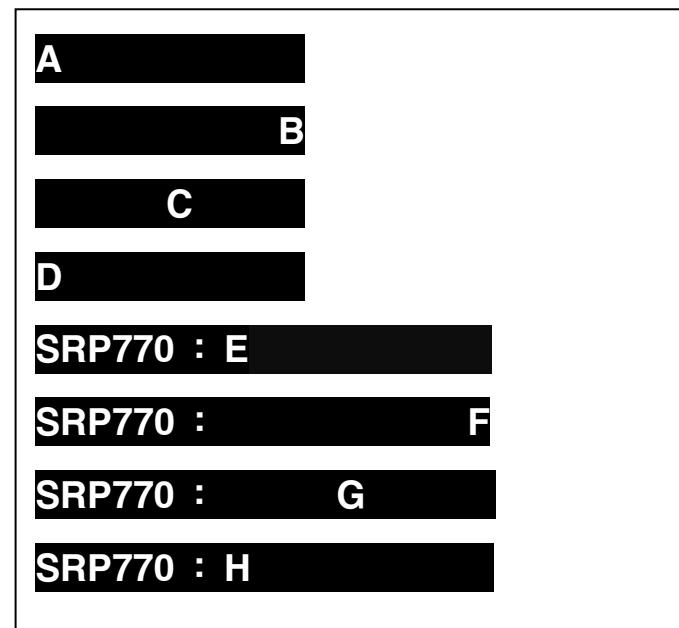
SV00,15,L,'prompt'                         // Declare variable V00, field size:15, Left justification
SV01,15,R,'prompt'                         // Declare variable V01, field size:15, Right justification
SV02,15,C,'prompt'                         // Declare variable V02, field size:15, Center justification
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

TE                                         // End Template Store
```

3-15 Example) TEST04_TR

```
TR'Test04'      // Recall Template  
  
?              // Start Get values for variables  
A              // data for variable V00  
B              // data for variable V00  
C              .  
D              .  
E              .  
F              .  
G              .  
H              // data for variable V07  
  
P1             // Start Printing
```



3-16 Example) IR1

```
IR130,400,'BIXOLON'          // Recall stored image data  
P1                           // Printing
```

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

Refer to IS command.

Result



3-17 Example) TEST10_TS

```
TS'Test10'                                // Start Template Store

CB                                         // 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
```

3-18 Example) TEST10_TR

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

```
TR'Test10'                                // Recall Template

?                                         // Start Get data for variables
BIXOLON                               // data for V00
SRP770                                 // data for V01
BIXOLON                               // data for V02(Image Name)

P1                                         // Start Printing
```



3-19 Example) TEST11_TS

```
TS'Test11'          // Start Template Store

CB                  // Clear Image Buffer
SS2                // Set Printing Speed to 4 ips
SD20               // Set Density to 20
SW800              // Set Label Width to 800
SOT                // Set Printing Orientation from Top to Bottom
SC0,4,L,+1,'COUNTER1' // Declare Counter 0, Field=4, Step:+1,Left
Justi.
SC1,4,N,-1,'COUNTER2' // Declare Counter 1, Field=4, Step: -1,No
Justi.
T50,50,4,1,1,0,0,N,N,'Serial Number : 'C0 // Print Counter 0
T50,150,4,1,1,0,0,R,N,'Serial Number : 'C1 // Print Counter 1

TE          // End of Template Store
```

Serial Number : 0001

Serial Number : 9999

Serial Number : 0002

Serial Number : 9998

Serial Number : 0003

Serial Number : 9997

3-20 Example) TEST11_TR

```
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

3-21 Example) SLCS_BIXOLON

SM10,21
SS3
SD20
SW832
SOT
CS0,0

BD18,14,798,164,O
T400,62,4,2,2,0,0,R,B,'BIXOLON'
T65,98,3,1,1,0,0,R,B,'BIXOLON Label'
T20,276,3,1,1,1,0,N,N,' BIXOLON'
T20,306,3,1,1,1,0,N,N,' Yeongtong Dong'
T20,336,3,1,1,1,0,N,N,' Sowon City,South Korea'
T22,218,4,1,1,0,0,N,B,'SHIP TO:'
BD18,410,784,415,O
BD553,197,558,413,O
B169,458,0,4,8,137,0,0,0,'*1234567890*'
T26,421,1,1,1,0,0,N,N,'POSTAL CODE:'
BD18,616,784,621,O
BD20,781,786,786,O
T503,798,1,1,1,0,0,N,N,'DESTINATION:'
T42,841,5,1,1,0,0,N,B,'30 Kg'
BD18,928,784,933,O
T25,798,1,1,1,0,0,N,N,'WEIGHT:'
T259,798,1,1,1,0,0,N,N,'DELIVERY NO:'
T23,630,1,1,1,0,0,N,N,'AWB:'
BD241,783,246,932,O
BD486,784,491,933,O
T274,841,5,1,1,0,0,N,B,'425518'
T104,627,3,1,1,0,0,N,N,'8741493121'
T565,841,5,1,1,0,0,N,B,'ICN'
B1127,672,4,4,8,90,0,0,0,'8741493121'
B2560,180,M,0,'999,840,06810,7317,THIS IS A TEST OF MODE 0 STRUCTURED CARRIER
MESSAGE ENCODING. THIS IS AN 84 CHAR MSG'
B280,960,P,30,10,0,0,0,1,3,14,0,'BIXOLON Label Printer SRP770, This is Test Printing.'

P1

Result

