



Posjet Thermal printer **PK105 Series** **Operation manual**



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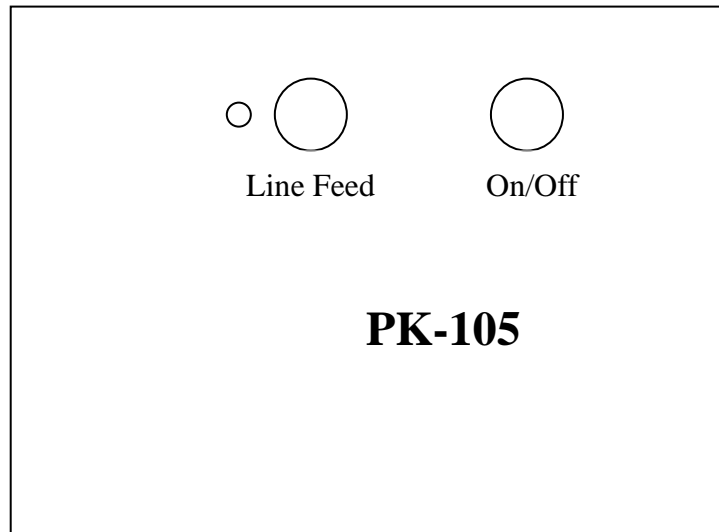
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1. Specification

Printing	
Method	Direct thermal
Effective area	48 mm
Resolution	8 dots / mm
Speed	50 mm / second (Max.)
Fonts	
Character Set	ASCII International, (Traditional/Simplify Chinese)
Characters ASCII	48 (16*8), 32 (16*12) 32(24*12) (H x W dot)
Character Chinese	24(16*16), 16(24*24)(Chinese) (H x W dot)
Graphic	Bit addressable graphic command set
Bar codes	Code 39, EAN and UPC
Downloadable	Fonts, graphics, logos and additional bar codes
Interface	
Bluetooth	Class II 10~15M(outdoor)
Paper roll	
“Easy paper loading design”	
Width	57.5 mm (2”)
Thickness	2.2 to 3.5 mils
Diameter	40 mm (Max.) Core: 12 mm
Length	16 meter (Max.)
Power supply	
Li – Polymer rechargeable battery 7.2V/2200mA	
Dimensions	
Size	90 (W) x 150(L) x 60mm (H)
Weight	800g with Battery/Paper (Paper roll 40mm)
Environmental	
Operating Temp	0 to 50°C
Storage Temp	-20 to 60°C
Humidity	20~85% RH (non-condensing)

2. The functions of control Jump(connector)



2.1 The function of button:

Line Feed Key: Line Feed –

Press once	One line feed
Hold it	Feeding continuously and stop when release

On/Off Key: Power on/off

Power off status hold it and power on	Self-test page will printing out
Press it more than 2 seconds	Power off

2.2 The function of LED and Buzzer:

Green LED: Power and status indicator

Red LED: Alarm and status indicator

Status	Green LED
Stand-by	On
No paper	Blinking

3. Communication

Bluetooth connection

- a. Need to match the Bluetooth connection between PK105 and your facility before using at the first time.**
- b. The PIN CODE is four number "0000 " (PK105 Bluetooth module)**
- c. Printing controls same as RS-232.**

***The printer has one communication interface RS-232. The RS-232 has hardware handshaking. Programmer can easily setup connection. Set primary device communication as 9600,n, 8,1 then transfer to printer. When printer received 0ah or 0dh it will start printing. Programmer hint (for RS-232 communication)**

- a. In special condition you can send printer inquiry command to confirm printer status. As usually; we do not check it.**
- b. In RS-232 communication must send 0ah, 0dh to enable start printing.**
- c. ESC (1Bh), 0Ah, 0Dh etc. unprintable characters treat as 1 data byte.**

4. Command sets

Command	Control code	Description
LF	0Ah	Line Feed
CR	0Dh	Carriage return.
ESC+SP+n	1Bh+20h+n, 0<n<255	Sets the character spacing
ESC+'—'+n	1Bh+2Dh+n, 0<n<1	Enable/Disable under line mode
ESC+'__'+n	1Bh+5Fh+n, 0<n<1	Enable/Disable upper line mode.
ESC+' '+n+data	1Bh+27h+n+data	Print curving graph lines
ESC+'['+n+0+data	1Bh+5Bh+n+00h+data	Print the bit image mode
ESC+'*'+m+n1+n2+data	1Bh+2Ah+m+n1+n2+data	Print the bit image mode
ESC+'('+B'+n+n1+barcode data	1Bh+28h+42h+n+n1 1 < n < 5	Barcode printing mode. (See Table 4)
ESC+'{'+n	1Bh+7Bh+n, 0<n<1	Enable/Disable upside-down printing mode
ESC+'@'	1Bh+40h	Initialize printer
ESC+'1'+n	1Bh+31h+n, 0<n<255	Set line spacing rate of minimum pitch
ESC+'3'+n	1Bh+33h+n, 0<n<255	Set line spacing (Use in graphic mode)
ESC+'H'+n	1Bh+48h+n, 0<n<6	Select/Cancel n times height
ESC+'K'+n1+n2+data	1Bh+4Bh+n1+n2+data	Print the bit image mode
ESC+'M'+n	1Bh+4Dh+n, 0<n<2	Select Ascii character font (see Table 1) only use in standard mode
ESC+'R'+n	1Bh+52h+n 0 < n < 6 (Chinese version) 0 < n < 10(Standard version)	Select an international character (see Table 2)
ESC+'W'+n	1Bh+57h+n, 0<n<6	Select/Cancel n times width
ESC+'Z'+n	1Bh+5Ah+n, 0<n<6	Select/Cancel n times height and n times width
ESC+'b'+n	1Bh+62h+n, 0 < n < 7	Communication speed setting. (See Table 3)
ESC+'c'+3'+n	1Bh+63h+33h+n, 0<n<1	Enable/disable paper sensor
ESC+'c'+5'+n	1Bh+63h+35h+n, 0<n<1	Enable/disable switch
ESC+'c'+6'+n	1Bh+63h+36h+n, 0<n<1	Enable/disable Temperature sensor
ESC+'d'+n	1Bh+64h+n, 1 < n < 255	After printing feed n lines

GS+'!	1Dh+21h+n, 0<n<255	Select character size
GS+'*'+n1+n2+n3+data	1Dh+2Ah+n1+n2+n3+data	Define the download bit image
GS+'/'	1Dh+2Fh	Printing the download bit image
GS+'B'+n	1Dh+42h+n, 0<n<1	Turn white/black reverse printing mode on/off
GS+V+0	1Dh+56h+00h	Cut paper
GS+'k'+m+n+dn	1Dh+6Bh+m+n+dn 65 <= m <=73	Barcode printing mode (see table 5)
GS+'h'+n	1Dh+68h+n, 0<n<=255 n=16 (default)	Select the height of the barcode (use in GS k)
GS+'w'+n	1Dh+77h+n, 0<n<=255 n=0 (default)	Select the width of the barcode (use in GS k)
GS+'H'+n	1Dh+48h+n, 0=<n<=2 n=2 (default)	Selecting of Printing Position of HRI Code (use in GS k)
FS+'&'	1Ch+26h	Select Chinese character mode
FS+'.'	1Ch+2Eh	Cancel Chinese character mode

Table1: Select Ascii character font

N	Character Set
0	Ascii font (16 x 8)
1	Ascii font (16 x 12)
2	Ascii font (24 x 12) default

Table2: Set up international code

Chinese Big-5 version (24 x 12)

N	Character Set
0	U.S.A (16 x 8)
1	U.S.A (16 x 12)
2	U.S.A (24 x 12) default
3	France (24 x 12)
4	Germany (24 x 12)
5	U.K. (24 x 12)
6	Denmark I (24 x 12)
7	Sweden (24 x 12)

Chinese Big-5 version (16 x 12)

N	Character Set
0	U.S.A (16 x 8)
1	U.S.A (16 x 12)
2	U.S.A (24 x 12) default
3	France (16 x 12)
4	Germany (16 x 12)
5	U.K. (16 x 12)
6	Denmark I (16 x 12)
7	Sweden (16 x 12)
8	Italy (16 x 12)
9	Spain (16 x 12)

Chinese Big-5 version (16 x 8)

N	Character Set
0	U.S.A (16 x 8)
1	U.S.A (16 x 12)
2	U.S.A (24 x 12) default
3	France (16 x 8)
4	Germany (16 x 8)
5	U.K. (16 x 8)
6	Denmark I (16 x 8)
7	Sweden (16 x 8)
8	Italy (16 x 8)
9	Spain (16 x 8)
10	Japan (16 x 8)
11	Norway (16 x 8)
12	Denmark II (16 x 8)

Standard version

N	Character Set
0	U.S.A
1	France
2	Germany
3	English
4	Denmark I
5	Sweden
6	Italy
7	Spain
8	Japan
9	Norway
10	Denmark II

-	Latin-1
-	Latin-2
-	Japan1
-	Russian
-	Thai
-	Thrkish

Table 3: Communication speed setting (RS-232 only)

N	Communication speed
0	1200 bps
1	2400 bps
2	4800 bps
3	9600 bps (Default)
4	19200 bps
5	38400 bps
6	57600 bps

Table 4: Barcode prints mode

n	Bar code prints mode	Bar code data length (Barcode data)
1	EAN-8 n1=0	Len=8
2	EAN-13 n1=0	Len=13
3	UPC-A n1=0	Len=12
4	UPC-E 1 < n1 < 9	Len=6
5	CODE 39 n1=0	1 < Len < 15(first is length define)

Table 5: Barcode prints mode

m	Bar code prints mode	Number(n) (Decimal)	Data (dn) (Decimal)
65	UPC-A	n=11	48 <= d <= 57
66	UPC-E	n=11	48 <= d <= 57
67	EAN13	n=12	48 <= d <= 57
68	EAN8	n=7	48 <= d <= 57
69	CODE39	1 <= n <= 255	32,36,37,43,45,46,47,48 <= d <= 57;65 <= d <= 90
70	ITF	1 <= n <= 255 (even number)	48 <= d <=57
71	CODABAR	1 <= n <= 255	36,43,45,46,47,48 <= d <= 57,58;65 <= d <=68
72	CODE93	1 <= n <= 255	0 <= d <=127
73	CODE128	1 <= n <= 255	0 <= d <=127

5. Command code description and example

LF [Print and Line Feed]

Command code

ASCII	LF
Hexadecimal	0A
Decimal	10

Function After printing out skips a line

Example

1. PRINT #1,"AAAAAAAAA";CHR\$(&HA);
2. PRINT #1,"BBBBBBBBB";CHR\$(&HA);

Result

1. AAAAAAAAAA
 2. BBBBBBBBBB
-

CR [Carriage return]

Command code

ASCII	CR
Hexadecimal	0D
Decimal	13

Function Place the print head at start position

Example

1. PRINT #1,"AAAAAAAAA";CHR\$(&HD);
2. PRINT #1,"BBBBBBBBB";CHR\$(&HD);

Result

1. AAAAAAAAAA
 2. BBBBBBBBBB
-

ESC SP n [Set the character space]

Command code

ASCII	ESC	SP	n
Hexadecimal	1B	20	n
Decimal	27	32	n

Defined region $0 \leq n \leq 255$

Function Sets the character spacing for the right side of the character to $[n \cdot 0.125 \text{ mm}]$

Example

1. PRINT #1,CHR\$(&H1B);CHR\$(&H20);CHR\$(&H0);CHR\$(&HA);
2. PRINT #1,"ABCDEFGHJK";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);CHR\$(&H20);CHR\$(&H5);CHR\$(&HA);
4. PRINT #1,"ABCDEFGHJK";CHR\$(&HA);

Result

ABCDEFGHIJK

ESC - n [Select/cancel under line mode]

Command code

ASCII	ESC	-	n
Hexadecimal	1B	2D	n
Decimal	27	45	n

Defined region n=0(disable);n=1(enable)

Function Print under line

Example

```

5. PRINT #1,CHR$(&H1B);CHR$(&H2D);"0";"AA";
6. PRINT #1,CHR$(&H1B);CHR$(&H2D);"1";"BB";
7. PRINT #1,CHR$(&H1B);CHR$(&H2D);"0";"CC";
8. PRINT #1,CHR$(&H1B);CHR$(&H2D);"1";"DD";CHR$(&HA);
9. PRINT #1,CHR$(&H1B);CHR$(&H2D);"0";"EE";
10. PRINT #1,CHR$(&H1B);CHR$(&H2D);"1";"FF";
11. PRINT #1,CHR$(&H1B);CHR$(&H2D);"0";"GG";
12. PRINT #1,CHR$(&H1B);CHR$(&H2D);"1";"HH";CHR$(&HA);

```

Result

AABBCCDD
EEFFGGHH

ESC _ n [Select/cancel upper line mode]

Command code

ASCII	ESC	-	n
Hexadecimal	1B	5F	n
Decimal	27	95	n

Defined region n=0(disable);n=1(enable)

Function Print upper line

Example

```

13. PRINT #1,CHR$(&H1B);CHR$(&H5F);"0";"AA";
14. PRINT #1,CHR$(&H1B);CHR$(&H5F);"1";"BB";
15. PRINT #1,CHR$(&H1B);CHR$(&H5F);"0";"CC";
16. PRINT #1,CHR$(&H1B);CHR$(&H5F);"1";"DD";CHR$(&HA);
17. PRINT #1,CHR$(&H1B);CHR$(&H5F);"0";"EE";
18. PRINT #1,CHR$(&H1B);CHR$(&H5F);"1";"FF";
19. PRINT #1,CHR$(&H1B);CHR$(&H5F);"0";"GG";
20. PRINT #1,CHR$(&H1B);CHR$(&H5F);"1";"HH";CHR$(&HA);

```

Result

A[̄]A[̄]B[̄]B[̄]C[̄]C[̄]D[̄]D[̄]
E[̄]E[̄]F[̄]F[̄]G[̄]G[̄]H[̄]H[̄]

ESC ‘ n d1...dn [Print curving graph lines]

Command code

ASCII	ESC	‘	n	d1....dn
Hexadecimal	1B	27	n	d1....dn

Decimal 27 39 n d1....dn

Defined region 0 <= n <= 255

Function Print bit image curving graph lines

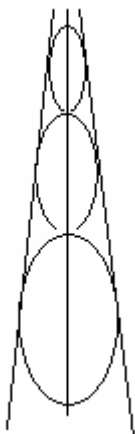
dn=1 mark/black, dn=0 unmark/white

d1	d2	d3	d4	d5	d251	d252	d253	d254	d255
----	----	----	----	----	-------	------	------	------	------	------

Example

```
1 For X = 0 To 150
2 Y = Int(40 * Exp(-0.01 * X))
3 yy = Int(Y * Sin(X / 10))
4 PRINT #1, Chr$(&H1B);Chr$(&H27);Chr$(&H5);
5 a = 50 + yy
6 PRINT #1,Chr(a);
7 a = 50 - yy
8 PRINT #1,Chr(a);
9 PRINT #1,Chr(50);
10 a = 50 + Y
11 PRINT #1,Chr(a);
12 a = 50 - Y
13 PRINT #1,Chr(a);
14 Next X
15 PRINT #1,Chr(10);
```

Result



ESC [n 0 d1...dn [Print raw graph lines]

Command code

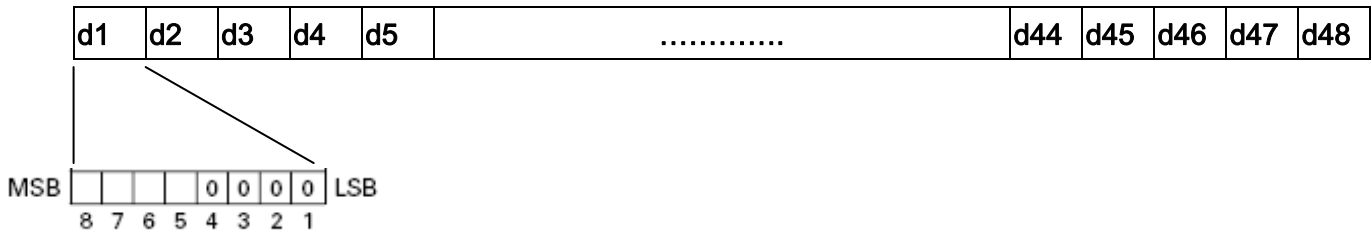
ASCII ESC [n 0 d1.....dn

Hexadecimal 1B 5B n 0 d1.....dn

Decimal 27 91 n 0 d1.....dn

Defined region 1 <= n <= 48

Function Print bit image raw graph lines



ESC * m n1 n2 d1...dk [Print raw graph lines]

Command code

ASCII	ESC	*	m	n1	n2	d1.....dk
Hexadecimal	1B	2A	m	n1	n2	d1.....dk
Decimal	27	42	m	n1	n2	d1.....dk

Defined region m=0h,01h,20h,21h
 0 <= n1 <= 255 ; 0 <= n2 <= 1
 m=0h,1h ; k=n1+(255xn2)
 m=20h,21h ; k=(n1+(255xn2))x3

m(hex)	mode	Vertical Direction		Horizontal Direction	
		Dots	Dot density	Dot density	Max. dots
0	8-dot single density	8	67 DPI	101 DPI	192
1	8-dot single density	8	67 DPI	203 DPI	384
20	24-dot single density	24	203 DPI	101 DPI	192
21	24-dot single density	24	203 DPI	203 DPI	384

Function Print bit image mode

ESC (B n n1 barcode data [Print barcode mode]

Command code

ASCII	ESC	(B	n	n1	barcode data
Hexadecimal	1B	28	42	n	n1	barcode data
Decimal	27	40	66	n	n1	barcode data

Defined region 1 <= n <= 5 , n1 value see table 4

Example

- PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(1);CHR\$(0);"20123451";CHR\$(&HA);
- PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(2);CHR\$(0);"5";"012345678900";CHR\$(&HA);
- PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(3);CHR\$(0);"061297027804";CHR\$(&HA);
- PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(4);CHR\$(0);"1";"078349";CHR\$(&HA);
- PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(5);CHR\$(0);CHR\$(8);"TEST8052";CHR\$(&HA);
- PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(1);CHR\$(1);"2012345";CHR\$(&HA);

7. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(2);CHR\$(1);"5";"01234567890";CHR\$(&HA);
8. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(3);CHR\$(1);"06129702780";CHR\$(&HA);
9. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(5);CHR\$(1);CHR\$(8);"TEST8052";CHR\$(&HA);

Result

1. Set the barcode is EAN-8 data 20123451
2. Set the barcode is ENA-13 data 012345678900
3. Set the barcode is UPC-A data 0612978400
4. Set the barcode is UPC-E data 078349
5. Set the barcode is CODE 39 data TEST8052
6. Set the barcode is EAN-8 data 2012345 + check digit '1'
7. Set the barcode is ENA-13 data 01234567890 + check digit '0'
8. Set the barcode is UPC-A data 0612902780 + check digit '4'
9. Set the barcode is CODE 39 data TEST8052 + check digit '+' + check digit 'T'

ESC { n [Upside-down print mode]

Command code

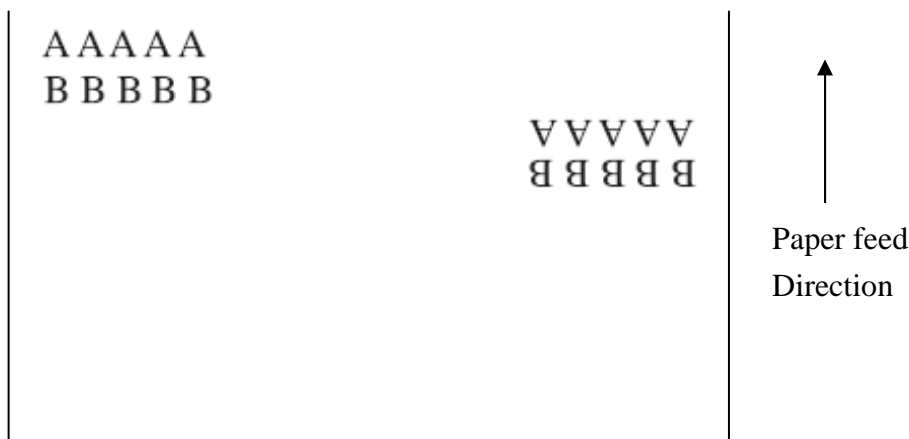
ASCII	ESC	{	n
Hexadecimal	1B	7B	n
Decimal	27	123	n

Defined region n=0(upside); n=1(down)

Example

1. PRINT #1,CHR\$(&H1B);"{";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,"BBBBB";CHR\$(&HA);
4. PRINT #1,CHR\$(&H1B);"{";CHR\$(1);
5. PRINT #1,"AAAAA";CHR\$(&HA);
6. PRINT #1,"BBBBB";CHR\$(&HA);

Result



ESC @ [Initialize printer]

Command code

ASCII	ESC	@
Hexadecimal	1B	40
Decimal	27	64

Example

PRINT #1,CHR\$(&H1B);"@";CHR\$(&HA);

Result

Reset printer parameter to default value

ESC 1 n [Set line spacing (use in graphic mode)]

Command code

ASCII	ESC	1	n
Hexadecimal	1B	31	n
Decimal	27	49	n

Defined region $0 \leq n \leq 255$

Example

1. PRINT #1,CHR\$(&H1B);"1";CHR\$(3);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,"BBBBB";CHR\$(&HA);

Result

AAAAA
(3 dot line space)
BBBBB

ESC 3 n [Set line spacing rate of minimum pitch]

Command code

ASCII	ESC	1	n
Hexadecimal	1B	31	n
Decimal	27	49	n

Defined region $0 \leq n \leq 255$

Example

1. PRINT #1,CHR\$(&H1B);"3";CHR\$(16);

Result

Use in graphic mode

ESC H n [Select n times height]

Command code

ASCII	ESC	H	n
Hexadecimal	1B	48	n
Decimal	27	72	n

Defined region $0 \leq n \leq 6$

Example

1. PRINT #1,CHR\$(&H1B);"H";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"H";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);
5. PRINT #1,CHR\$(&H1B);"H";CHR\$(2);
6. PRINT #1,"AAAAA";CHR\$(&HA);

Result

AAAAA
AAAAA

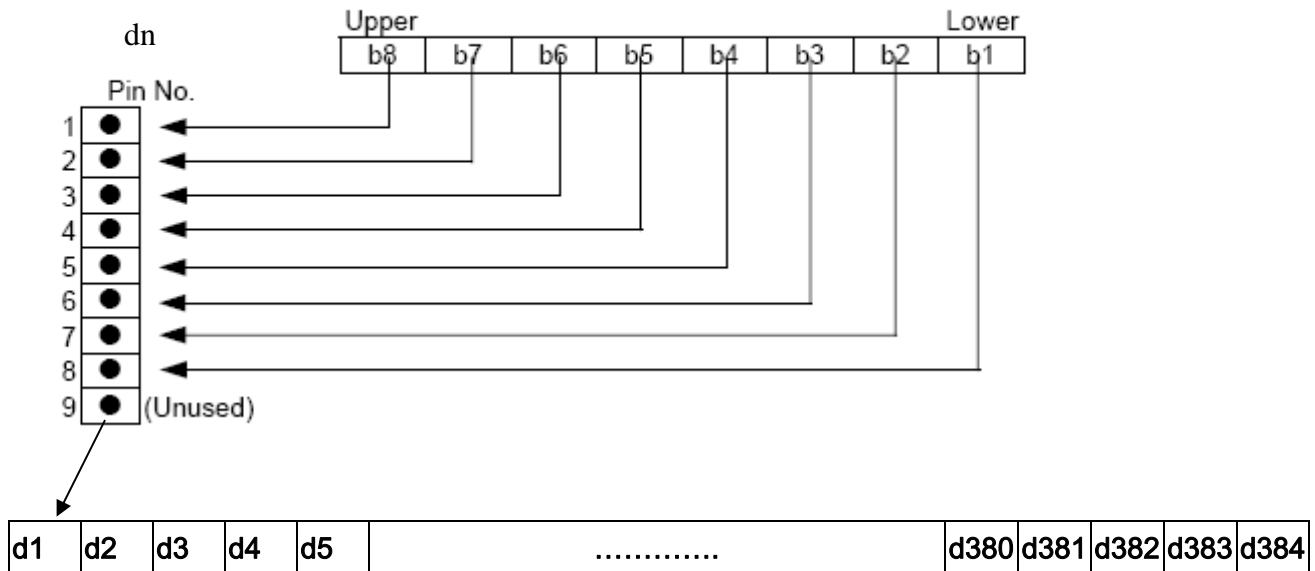
AAAAA

ESC K n1 n2 d1...dk [Print graphic mode]

Command code

ASCII	ESC	K	n1	n2	d1....dk
Hexadecimal	1B	4B	n1	n2	d1....dk
Decimal	27	75	n1	n2	d1....dk

Defined region $0 \leq n1 \leq 255 ; 0 \leq n2 \leq 1$
 $k=n1+(255 \times n2)$
 $1 \leq K \leq 384$



ESC M n [Select ascii character font]

Command code

ASCII	ESC	M	n
Hexadecimal	1B	4D	n
Decimal	27	77	n

Defined region $0 \leq n \leq 2$

Example

1. PRINT #1,CHR\$(&H1B);"M";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"M";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);
5. PRINT #1,CHR\$(&H1B);"M";CHR\$(2);
6. PRINT #1,"AAAAA";CHR\$(&HA);

Result

AAAAA(Ascii font 16x8)
 AAAAA(Ascii font 16x12)
 AAAAA(Ascii font 24x12)

ESC R n [Select an international character]

Command code

ASCII	ESC	R	n
Hexadecimal	1B	52	n
Decimal	27	82	n

Defined region 0 < n < 6 (Chinese version)
 0 < n < 10 (Standard version)

Example

1. PRINT #1,CHR\$(&H1B);"R";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"R";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);
5. PRINT #1,CHR\$(&H1B);"R";CHR\$(2);
6. PRINT #1,"AAAAA";CHR\$(&HA);

Result

(chinese version)

AAAAA(Character set U.S.A 16x8)

AAAAA(Character set U.S.A 16x12)

AAAAA(Character set U.S.A 24x12)

(standard version)

AAAAA(Character set U.S.A)

AAAAA(Character set France)

AAAAA(Character set Germany)

ESC W n [Select n times width]

Command code

ASCII	ESC	W	n
Hexadecimal	1B	57	n
Decimal	27	87	n

Defined region 0 <= n <= 6

Example

1. PRINT #1,CHR\$(&H1B);"W";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"W";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);
5. PRINT #1,CHR\$(&H1B);"W";CHR\$(2);
6. PRINT #1,"AAAAA";CHR\$(&HA);

Result

```
AAAAA
AAAAA
AAAAA
```

ESC Z n [Select n times height and n times width]

Command code

ASCII	ESC	Z	n
Hexadecimal	1B	5A	n
Decimal	27	90	n

Defined region 0 <= n <= 6

Example

1. PRINT #1,CHR\$(&H1B);"Z";CHR\$(0);

2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"Z";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);
5. PRINT #1,CHR\$(&H1B);"Z";CHR\$(2);
6. PRINT #1,"AAAAA";CHR\$(&HA);

Result

```
AAAAA
AAAAA
AAAAA
```

ESC b n [Communication speed setting]

Command code

ASCII	ESC	b	n
Hexadecimal	1B	62	n
Decimal	27	98	n

Defined region 0 <= n <= 6

Example

1. PRINT #1,CHR\$(&H1B);"b";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"b";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);
5. PRINT #1,CHR\$(&H1B);"b";CHR\$(2);
6. PRINT #1,"AAAAA";CHR\$(&HA);

Result

```
(baud rate 1200bps)
AAAAA
(baud rate 2400bps)
AAAAA
(baud rate 4800bps)
AAAAA
```

ESC c 3 n [Enable/disable paper sensor]

Command code

ASCII	ESC	c	3	n
Hexadecimal	1B	63	33	n
Decimal	27	99	51	n

Defined region n=0(disable); n=1(enable)

Example

1. PRINT #1,CHR\$(&H1B);"c";"3";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"c";"3";CHR\$(1);
4. PRINT #1,"BBBBB";CHR\$(&HA);

Result

```
(Paper out sensor off)
AAAAA
(Paper out sensor on)
BBBBB
```

ESC c 5 n [Enable/disable switch]

Command code

ASCII	ESC	c	5	n
Hexadecimal	1B	63	35	n
Decimal	27	99	53	n

Defined region n=0(disable); n=1(enable)

Example

1. PRINT #1,CHR\$(&H1B);"c";"5";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"c";"5";CHR\$(1);
4. PRINT #1,"BBBBB";CHR\$(&HA);

Result

(switch off)

AAAAA

(switch on)

BBBBB

ESC c 6 n [Enable/disable Temperature sensor]

Command code

ASCII	ESC	c	6	n
Hexadecimal	1B	63	36	n
Decimal	27	99	54	n

Defined region n=0(disable); n=1(enable)

Example

1. PRINT #1,CHR\$(&H1B);"c";"6";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"c";"6";CHR\$(1);
4. PRINT #1,"BBBBB";CHR\$(&HA);

Result

(temperature sensor off)

AAAAA

(temperature sensor on)

BBBBB

ESC d n [after printing feed n lines]

Command code

ASCII	ESC	d	n
Hexadecimal	1B	64	n
Decimal	27	100	n

Defined region 1 <= n <= 255

Example

1. PRINT #1,"AAAAA";CHR\$(&HA);
2. PRINT #1,CHR\$(&H1B);"d";CHR\$(15);
3. PRINT #1,"BBBBB";CHR\$(&HA);

Result

AAAAA

(Feed 15 dot line)

BBBBB

GS ! n [Select character size]

Command code

ASCII	GS	!	n
Hexadecimal	1D	21	n
Decimal	29	33	n

Defined region 1 <= n <= 255

Selects the character height using bits 0 to 2 and selects the character width using bits 4 to 7, as follows:

Bit	off/on	Hex	Decimal	Function
0	Character height selection. See Table 2.			
1				
2				
3				
4	Character width selection. See Table 1.			
5				
6				
7				

Table 1
Character Width Selection

Hex	Decimal	Width
00	0	1 (normal)
10	16	2(Double width)
20	32	3
30	48	4
40	64	5
50	80	6
60	96	7
70	112	8

Table 2
Character Height Selection

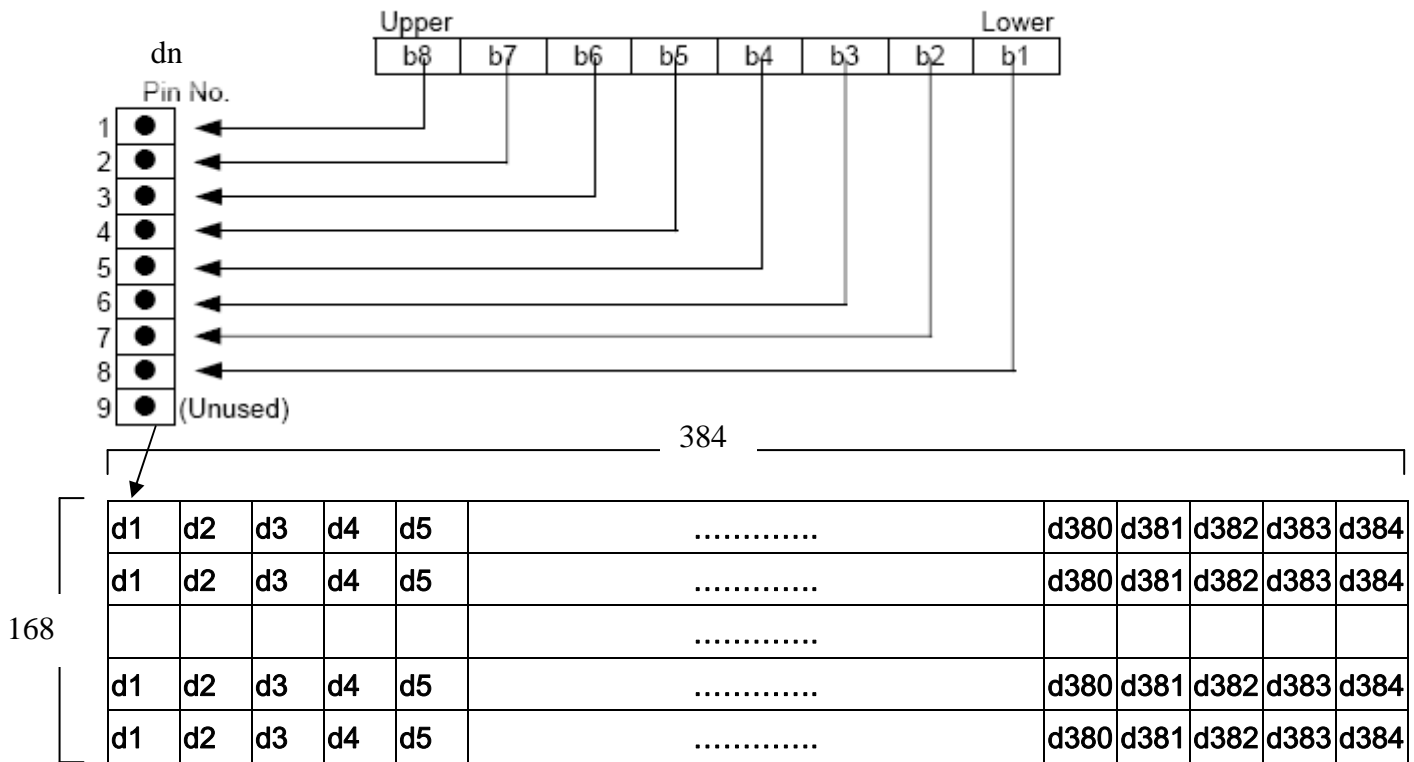
Hex	Decimal	Height
00	0	1 (normal)
01	1	2(Double height)
02	2	3
03	3	4
04	4	5
05	5	6
06	6	7
07	7	8

GS * n1 n2 n3 d1...dk [Define download bit image data]

Command code

ASCII	GS	*	n1	n2	n3	d1.....dk
Hexadecimal	1D	2A	n1	n2	n3	d1.....dk
Decimal	29	42	n1	n2	n3	d1.....dk

Defined region 0 <= n1 <= 1 ; 1 <= n2 <= 384
 1 <= n3 <= 21



GS / m n [Printing download bit image data]

Command code

ASCII	GS	/	m	n
Hexadecimal	1D	2F	m	n
Decimal	29	47	m	n

Defined region m=0 ; 0 <= n <= 3

Example

1. PRINT #1,CHR\$(&H1D);"/";CHR\$(0);CHR\$(0);CHR\$(&HA);
2. PRINT #1,CHR\$(&H1D);"/";CHR\$(0);CHR\$(1);CHR\$(&HA);
3. PRINT #1,CHR\$(&H1D);"/";CHR\$(0);CHR\$(2);CHR\$(&HA);
4. PRINT #1,CHR\$(&H1D);"/";CHR\$(0);CHR\$(3);CHR\$(&HA);

Result

Print download bit image data AREA 1.

Print download bit image data AREA 2.

Print download bit image data AREA 3.

Print download bit image data All AREA.

GS B n [Turn white/black reverse printing mode on/off]

Command code

ASCII	GS	B	n
Hexadecimal	1D	42	n

Decimal 29 66 n

Defined region n=0(turn off); n=1(turn on)

Example

1. PRINT #1,CHR\$(&H1D);"B";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"B";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);

Result

AAAAA
AAAAA

GS V 0 [Cutter paper]

Command code

ASCII	GS	V	0
Hexadecimal	1D	56	00
Decimal	29	86	00

Example

1. PRINT #1,"AAAAA";CHR\$(&HA);
2. PRINT #1,CHR\$(&H1D);"V";CHR\$(0);CHR\$(&HA);
3. PRINT #1,"BBBBB";CHR\$(&HA);

Result

AAAAA
 (Cutter paper)
 BBBBB

GS k m n dn[Print barcode]

Command code

ASCII	GS	k	m	n	dn
Hexadecimal	1D	6B	m	n	dn
Decimal	29	107	m	n	dn

65 <= m <= 73 (Decimal)

A check digit is added and printed automatically.

When code 128 (m=73) is used:

Specific character	Transmit data		
	ASCII	Hex	Decimal
SHIFT	{S	7B,53	123,83
CODE A	{A	7B,41	123,65
CODE B	{B	7B,42	123,66
CODE C	{C	7B,43	123,67
FNC1	{1	7B,31	123,49
FNC2	{2	7B,32	123,50
FNC3	{3	7B,33	123,51
FNC4	{4	7B,34	123,52
"{"	{{	7B,7B	123,53

Example

1. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H41);CHR\$(11);"06129702780";CHR\$(&HA);
2. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H42);CHR\$(11);"01200000456";CHR\$(&HA);
3. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H43);CHR\$(12);"501234567890";CHR\$(&HA);
4. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H44);CHR\$(7);"2012345";CHR\$(&HA);
5. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H45);CHR\$(10);"TEST 12345";CHR\$(&HA);
6. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H46);CHR\$(8);"12345670";CHR\$(&HA);
7. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H47);CHR\$(7);"A40156B";CHR\$(&HA);
8. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H48);CHR\$(6);"TEST93";CHR\$(&HA);
9. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H49);CHR\$(10);CHR\$(&H7B);CHR\$(&H42);"No.";CHR\$(&H7B);CHR\$(&H43);CHR\$(12);CHR\$(34);CHR\$(56);CHR\$(&HA);

Result

1. Set the barcode is UPC-A data 061297027804
2. Set the barcode is UPC-E data 012456
3. Set the barcode is EAN-13 data 5012345678900
4. Set the barcode is EAN-8 data 20123451
5. Set the barcode is CODE 39 data TEST 12345 + check digit 'o'
6. Set the barcode is ITF data 12345670
7. Set the barcode is CODABAR data A40156B
8. Set the barcode is CODE 93 data TEST93
9. Set the barcode is CODE 128 data No.123456

GS h n [Select barcode height]

Command code

ASCII	GS	h	n
Hexadecimal	1D	68	n
Decimal	29	104	n

1 <= n <= 255

Example

1. PRINT #1,CHR\$(&H1D);CHR\$(&H68);CHR\$(20);CHR\$(&HA);

GS w n [Select barcode width]

Command code

ASCII	GS	w	n
Hexadecimal	1D	77	n
Decimal	29	119	n

0 <= n <= 255

Example

1. PRINT #1,CHR\$(&H1D);CHR\$(&H77);CHR\$(1);CHR\$(&HA);

GS H n [Selecting of Printing Position of HRI Code]

Command code

ASCII	GS	H	n
Hexadecimal	1D	48	n
Decimal	29	72	n

0 <= n <= 2

n(hex)	Printing Position
0	No print
1	Above the barcode
2	below the barcode

Example

1. PRINT #1,CHR\$(&H1D);CHR\$(&H48);CHR\$(1);CHR\$(&HA);

FS & [Select Chinese character mode]

Command code

ASCII	FS	&
Hexadecimal	1C	26
Decimal	28	38

Example

1. PRINT #1,CHR\$(&H1C);"&";CHR\$(&HA);
2. PRINT #1,"公司";CHR\$(&HA);

Result

公司

FS . [Cancel Chinese character mode]

Command code

ASCII	FS	.
Hexadecimal	1C	2E
Decimal	28	46

Example

1. PRINT #1,CHR\$(&H1C);".";CHR\$(&HA);
2. PRINT #1,"公司";CHR\$(&HA);

Result

公司

Mechanical Dimensions

