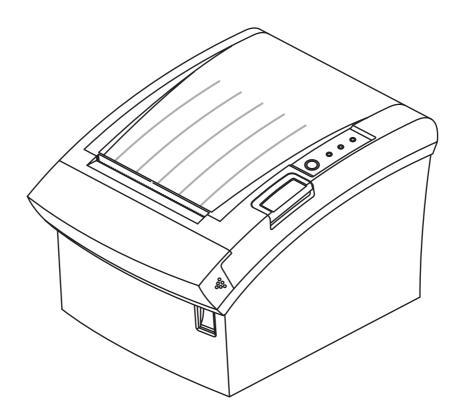




# Command Manual SRP-350

## Thermal Printer Rev. 1.00



http://www.samsungminiprinters.com

## **1. Control Commands List**

Control codes	Hexadecimal codes	Function		
<ht></ht>	09	Horizontal tab		
<lf></lf>	0A	Print and line feed		
<pre></pre>	0C	Print and return to standard mode in page		
		mode		
<cr></cr>	0D	Print and carriage return		
<can></can>	18	Cancel print data in page mode		
<dle><eot> n</eot></dle>	10 04 n	Real-time status transmission		
<dle><enq> n</enq></dle>	10 05 n	Real-time request to printer		
<esc><ff></ff></esc>	1B 0C	Print data in page mode		
<esc><sp> n</sp></esc>	1B 20 n	Set right-side character spacing		
<esc> ! n</esc>	1B 21 n	Select print modes		
<esc> \$ nL nH</esc>	1B 24 nL nH	Set absolute print position		
<esc> % n</esc>	1B 25 n	Select/Cancel user-defined character set		
<esc> &amp; y c1 c2</esc>	1B 26 y c1 c2	Define user-defined characters		
<esc> * m nL nH</esc>	1B 2A m nL nH	Select bit-image mode		
<esc> - n</esc>	1B 2D n	Turn underline mode on/off		
<esc> 2</esc>	1B 32	Select default line spacing		
<esc> 3 n</esc>	1B 33 n	Set line spacing		
<esc> = n</esc>	1B 3D n	Set peripheral device		
<esc>?n</esc>	1B 3F n	Cancel user-defined characters		
<esc> @</esc>	1B 40	Initialize printer		
<esc> D n1 ~ nK</esc>	1B 44 00	Set horizontal tab position		
<esc> E n</esc>	1B 45 n	Turn emphasized mode on/off		
<esc> G n</esc>	1B 47 n	Turn double-strike mode on/off		
<esc> J n</esc>	1B 4A n	Print and feed paper		
<esc> L</esc>	1B 4C	Select page mode		
<esc> M n</esc>	1B 4D n	Select character fonts		
<esc> R n</esc>	1B 52 n	Select an international character set		
<esc> S</esc>	1B 53	Select standard mode		
<esc>Tn</esc>	1B 54 n	Select print direction in page mode		
<esc> V n</esc>	1B 56 n	Turn 90° clockwise rotation mode on/off		
<esc> W xL</esc>	1B 57	Set printing area in page mode		
<esc> \ nL nH</esc>	1B 5C n	Set relative print position		
<esc> a n</esc>	1B 61 n	Select justification		
<esc> c 3 n</esc>	1B 63 33 n	Select paper sensor to output paper end		
		signals		
<esc> c 4 n</esc>	1B 63 34 n	Select paper sensor to stop printing		
<esc> c 5 n</esc>	1B 63 35 n	Enable/Disable panel button		
<esc> d n</esc>	1B 64 n	Print and feed n lines		
<esc> p m t1 t2</esc>	1B 70 m t1 t2	Generate pulse		
<esc> t n</esc>	1B 74 n	Select character code table		
<esc> { n</esc>	1B 7B n	Turn on/off upside-down printing mode		

Control codes	Hexadecimal codes	Function		
<fs>pnm</fs>	1C 70 n m	Print NT bit image		
<fs> q n</fs>	1C 71 n	Define NV bit image		
<gs> ! n</gs>	1D 21 n	Select character size		
<gs> \$ nL nH</gs>	1D 24 nL nH	Set absolute vertical print position in page		
		mode		
<gs> * x y</gs>	1D 2A x y	Define downloaded bit image		
<gs> / m</gs>	1D 2F n	Print downloaded bit image		
<gs> :</gs>	1D 3A	Start/end macro definition		
<gs> B n</gs>	1D 42 n	Turn white/black reverse printing mode on/off		
<gs> H n</gs>	1D 48 n	Select printing position of HRI characters		
<gs>In</gs>	1D 49 n	Transmit printer ID		
<gs> L nL nH</gs>	1D 4C nL nH	Set left margin		
<gs> P x y</gs>	1D 50 x y	Set horizontal and vertical motion units		
<gs> V m</gs>	1D 56 m	Select cut mode and cut paper		
<gs> V m n</gs>	1D 56 m n			
<gs> W nL hH</gs>	1D 57 nL nH	Set printing area width		
<gs> \ nL nH</gs>	1D 5C nL nH	Set relative vertical print position in page mode		
<gs> ^ r t m</gs>	1D 5E r t m	Execute macro		
<gs> a n</gs>	1D 61 n	Enable/Disable Automatic status back		
<gs>fn</gs>	1D 62 n	Select font for HRI characters		
<gs> h n</gs>	1D 68 n	Set bar code height		
<gs> k mNUL</gs>	1D 6B m NUL	Print bar code		
<gs> k m n</gs>	1D 6B m n			
<gs> r n</gs>	1D 72 n	Transmit status		
<gs> v 0 m</gs>	1D 76 30	Print raster bit image		
<gs> w n</gs>	1D 77 n	Set bar code width		

## 2. Control Commands Details

#### 2-1 Command Notation

The name of the command.
The code sequence. ASCII Indicates the ASCII equivalents.
Hex indicates the hexadecimal equivalents.
Decimal indicates the decimal equivalents.
[] k indicates the contents of the [] should be repeated k times.
Gives the allowable ranges for the arguments.
Describes the function of the command.

#### 2-2 Explanation of Terms

LSB Least Significant Bit

#### 2-3 Control Commands Details

HT	
[Name]	Horizontal tab.
[Format]	ASCII HT
	Hex 09
	Decimal 9
[Description]	Moves the print position to the next horizontal tab position.
LF	
[Name]	Print and line feed.
[Format]	ASCII LF
	Hex 0A
ID	Decimal 10
[Description]	Prints the data in the print buffer and feeds one line based on the current
	line spacing.
FF	
[Name]	Print and return to standard mode in page mode.
[Format]	ASCII FF
	Hex 0C
	Decimal 12
[Description]	Prints the data in the print buffer collectively and returns to standard mode.
CR	
[Name]	Print and carriage return.
[Format]	ASCII CR
	Hex 0D
	Decimal 13
[Description]	When automatic line feed is enabled, this command functions the same as
_	LF : when automatic line feed is disabled, this command is ignored.

## SRP-350

CAN						
[Name]	Cancel p	rint data i	n page r	node.		
[Format]	ASCII	CAN				
	Hex	18				
	Decimal	24				
[Description]	In page n	node, del	etes all t	he prin	nt data in the current printable area.	
				-		
DLE EOT n						
[Name]	Real-time	e status tr	ransmiss	ion.		
[Format]	ASCII	DLE	EOT	n		
	Hex	10	04	n		
	Decimal	16	4	n		
[Range]	1 ≤n ≤4					
[Description]	Transmits the selected printer status specified by n in real-time, according to the following parameters :					

to the following parameters : n = 1 : Transmit printer status.n = 2 : Transmit off-line status.n = 3 : Transmit error status.n = 4 : Transmit paper roll sensor status.

n = 1 : Printer status

Bit	Off/On	Hex	Decimal	Function	
0	Off	00	0	Not used. Fixed to Off.	
1	On	02	2	Not used. Fixed to On.	
2	Off	00	0	Drawer open/close signal is LOW (connector pin 3).	
	On	04	4	Drawer open/close signal is HIGH (connector pin 3).	
3	Off	00	0	On-Line	
	On	08	8	Off-Line	
4	On	10	16	Not used. Fixed to On.	
5-6	-	-	-	Undefined.	
7	Off	00	0	Not used. Fixed to Off.	

Bit	Off/On	Hex	Decimal	Function			
0	Off	00	0	Not used. Fixed to Off.			
1	On	02	2	Not used. Fixed to On.			
2	Off	00	0	Cover is closed.			
	On	04	4	Cover is open.			
3	Off	00	0	Paper is not being fed by using the PAPER FEED			
				button.			
	On	08	8	Paper is being fed by the PAPER FEED button.			
4	On	10	16	Not used. Fixed to On.			
5	Off	00	0	No paper-end stop.			
	On	20	32	Printing stops due to paper end.			
6	Off	00	00	No error.			
	On	40	64	Error occurs.			
7	Off	00	0	Not used. Fixed to Off.			
	it C . December on when the nener and concer data to rener and and minting store						

#### n = 2: Off-line status

Bit 5 : Becomes on when the paper end sensor detects paper end and printing stops.

#### SRP-350

#### n = 3 : Error status

Bit	Off/On	Hex	Decimal	Function			
0	Off	00	0	Not used. Fixed to Off.			
1	On	02	2	Not used. Fixed to On.			
2	-	-	-	Undefined.			
3	Off	00	0	No auto-cutter error.			
	On	08	8	Auto-cutter error occurs.			
4	On	10	16	Not used. Fixed to On.			
5	Off	00	0	No unrecoverable error.			
	On	20	32	Unrecoverable error occurs.			
6	Off	00	0	No auto-recoverable error.			
	On	40	64	Auto recoverable error occurs.			
7	Off	00	0	Not used. Fixed to Off.			
D:+ 2 .	Dit 2 . If these errors assure due to noner isome or the like, it is not interesting to resource by						

If these errors occur due to paper jams or the like, it is possible to recover by Bit 3 : correcting the cause of the error and executing DLE ENQ n ( $1 \le n \le 2$ ).

Bit 6 : When printing is stopped due to high print head temperature until the print head temperature drops sufficiently or when the paper roll cover is open during printing, bit 6 is on.

n = 4 : Continuous paper sensor status	3
--	---

Bit	Off/On	Hex	Decimal	Function		
0	Off	00	0	Not used. Fixed to Off.		
1	On	02	2	Not used. Fixed to On.		
2	Off	00	0	Paper roll Near-END sensor : Paper adequate.		
3	On	0C	12	Paper near-end is detected by the paper roll Near-		
				END sensor.		
4	On	10	16	Not used. Fixed to On.		
5	Off	00	0	Paper roll end sensor : Paper present.		
6	On	60	96	Paper roll end detected by the paper roll-end		
				sensor.		
7	Off	00	0	Not used. Fixed to Off.		

DLE ENQ n							
[Name]	Real-time	request	to printer				
[Format]	ASCII	DLE	ENQ	n			
	Hex	10	05	n			
	Decimal	16	5	n			
[Range]	1 ≤n ≤2						
[Description]	Recovers	from an	error ar	d restart pri	nting from t	he line whei	re the error
	occurred.						

ESC FF				
[Name]	Print data	in page	mode.	
[Format]	ASCII	ESC	FF	
	Hex	1B	0C	
	Decimal	27	12	
[Description]	In page m	iode, prin	ts all buf	fered data in the printing area collectively.

	n D's								
ESC S		<b>C</b> ^+	right aida	oharaa	toron	oina			
					SP	-			
[Formation of the second s	aıj	_	-		-	n			
		Hex			20	n			
(D	- 1		-	<u>2</u> 7	32	n			
[Range] 0 ≤n ≤255 [Description] Sets the chara ×horizontal or v							the right side of the character to [n is].		
ESC !	n								
[Name	e]	Sel	ect print m	nodes.					
Form	at]	ASC	CII E	SC	!	n			
-	-	Hex	· 1	B 2	21	n			
		Dec	imal 2	27	33	n			
[Rang	el	l≥ 0	า ≤255						
	ription]	-	ects print	mode(s	) usinc	n as '	follows.		
[					,	,			
Bit	Off/On	Hex	Decima						
0	Off	00	0	2 ×24) selected.					
	On	01	1	Char	Character font(9 ×17) selected.				
1,2	-	-	-	Unde	Undefined.				
3	Off	00	0	Empl	Emphasized mode not selected.				
	On	08	8	Empl	Emphasized mode selected.				
4	Off	00	0	Doub	Double-height mode not selected.				
	On	10	16		uble-height mode selected.				
5	Off	00	0				de not selected.		
	On	20	32	Doub	le-wid	th mo	de selected.		
6	_	-	-		fined.				
7	Off	00	0			node r	not selected.		
	On	80	128	Unde	Underline mode selected.				
		I							
ESC \$	S nL nH								
[Name	e]	Set absol	ute print p	osition.					
[Format] ASCII			ESC	\$	nL	n			
-	-	Hex	1B	24	nL	n			
		Decimal	27	36	nL	n			
[Rang		0 ≤n ≤255							
[ag	-	0 ≤n ≤255							
[Description] Set the distance from the beginning of the line to the position at wh						of the line to the position at which			

[Description] Set the distance from the beginning of the line to the position at which subsequent characters are to be printed.

\* The distance from the beginning of the line to the print position is [(nL + nH ×256) ×(vertical or horizontal notion unit)] inches.

ESC % n										
[Name]	Select / Cance		ned charact	er set.						
[Format]		SC %	n							
	Hex 1		n							
		7 37	n							
[Range]	0 ≤n ≤255									
[Description]	Selects or car									
		When the LSB is 0, the user-defined character set is canceled.								
	When the LSE	3 is 1, the u	ser-defined	character s	set is selected.					
ESC & v c1 c	2 [x1 d1d(y X	v1)] [vk	d1 d(vx X	(xk)]						
[Name]	Define user-d									
[Format]				$d_1 d_1 d_2$	X x1)] [xk d1 d(yx X xk)]					
[i official]	Hex 1B				(x1)] [xk d1 d(yx X xk)]					
	Decimal 27	,	-		$X \times 1$ ] [xk d1 d(yx X xk)]					
[Range]	y = 3, 32 ≤c1		,							
[	0 ≤x ≤12 (12x									
	$0 \le x \le 9 (9x17 \text{ font})$									
	0 ≤d1 d(y X xk) ≤255									
[Description]	- y specifies th		of bytes in t	he vertical of	direction.					
	- c1 specifies	the beginni	ng characte	er code for t	he definition,					
	and c2 speci									
	- x specifies the	ne number (	of dots in th	e horizonta	l direction.					
ESC * m nL n										
[Name]	Select bit-ima	-		الم 14 مال						
[Format]	ASCII ESC * m nL nH d1dk									
	Hex 1			H d1…dk						
[Danga]				nH d1…dk						
[Range]	m = 0, 1, 32, 33									
	0 ≤nL ≤255									
	0 ≤nH ≤3									
[Description]	0 ≤d ≤255	image mod	e usina m	for the num	ber of date specified by pl					
[Description]	0 ≤d ≤255 Selects a bit-i	•	e using m	for the num	ber of dots specified by nL					
[Description]	0 ≤d ≤255	•	e using m	for the num	ber of dots specified by nL					
[Description]	0 ≤d ≤255 Selects a bit-i	lows :								
	0 ≤d ≤255 Selects a bit-i	lows :	e using m Direction Dot		ber of dots specified by nL lorizontal Direction Number of Data (k)					

		of Dots	Density	Density	
0	8-dots single-density	8	60 DPI	90 DPI	nL + nH ×256
1	8-dot double-density	8	60 DPI	180 DPI	nL + nH ×256
32	24-dot single-density	24	180 DPI	90 DPI	(nL + nH ×256) ×3
33	24-dot double-density	24	180 DPI	180 DPI	(nL + nH ×256) ×3

ESC - n									
[Name]	Turn underline mode on / off.								
[Format]	ASCII ES								
	Hex 1E	3 2D	n						
	Decimal 2	7 45	n						
[Range]	0 ≤n ≤2, 48 ≤⊦	l ≤50							
[Description]	Turns underlin	ne mode on o	r off, based on t	the following values of n :					
			-	· · · · · ·					
	<u>n</u>		Function Turns off underline mode.						
	0, 48 1, 49			erline mode (1-dot thick).					
	2, 50			erline mode (2-dot thick).					
	2, 50								
ESC 2									
[Name]	Select defaul	t line spacing							
[Format]	ASCII E	SC 2							
	Hex 1	B 32							
	Decimal 2	27 50							
[Description]	Selects 1/6-ir	nch line (appr	oximately 4.32r	nm) spacing.					
ESC 3 n									
[Name]	Set line spaci	ing							
[Format]	ASCII E	SČ 3	n						
	Hex 1	B 33	n						
	Decimal 2	27 51	n						
[Range]	0 ≤n ≤255								
[Description]	Sets the line	spacing to [n	X vertical or ho	rizontal motion unit] inches.					
ESC = n									
[Name]	Select periph	oral device							
[Format]		SC =	n						
[i onnat]		B 3D	n						
	-	27 61	n						
[Range]	0 ≤n ≤3	_/ 01							
[Description]		e to which ho	st computer se	nds data, using n as follows :					
[]				<b>3</b>					
Bit	Off/On	Hex	Decimal	Function					
0	Off	00	0	Printer Disabled.					
	On	01	1	Printer Disabled.					
1-7	-	-	-	Undefined.					
ESC ? n	<u> </u>								
[Name]	Cancel user-c								
[Format]		SC ?	n						
	Hex 1		n						
		.7 63	n						
[Range]	32 ≤n ≤126		actora						
[Description]	Cancels user-	-defined chara	acters.						

ESC @	
[Name]	Initialize printer.
[Format]	ASCII ESC @
	Hex 1B 40
	Decimal 27 64
[Range]	32 ≤n ≤126
[Description]	Clears the data in the print buffer and resets the printer mode to the mode that was in effect when the power was turned on.
ESC D n1 r	nk NUL
[Name]	Set horizontal tab positions.
[Format]	ASCII ESC D n1 nk NUL
	Hex 1B 44 n1 nk 00
	Decimal 27 68 n1 nk 0
[Range]	1 ≤n ≤255
	0 ≤k ≤32
	Sets horizontal tab positions.
	he column number for setting a horizontal tab position from the beginning
of the line.	
* k indicates t	he total number of horizontal tab positions to be set.
ESC E n	Turn omnhasized mode on / off
[Name]	Turn emphasized mode on / off. ASCII ESC E n
[Format]	ASCII ESC E n Hex 1B 45 n
	Decimal 27 69 n
[Range]	0 ≤n ≤255
[Description]	
	SB of n is 0, emphasized mode is turned off.
	SB of n is 1, emphasized mode is turned on.
ESC G n	
[Name]	Turn on / off double-strike mode.
[Format]	ASCII ESC G n
	Hex 1B 47 n
	Decimal 27 71 n
[Range]	0 ≤n ≤255
[Description]	Turns double-strike mode on or off.
	SB of n is 0, double-strike mode is turned off.
" when the L	SB of n is 1, double-strike mode is turned on.
ESC J n	
[Name]	Print and feed paper.
[Format]	ASCII ESC J n
- •	Hex 1B 4A n
	Decimal 27 74 n
[Range]	0 ≤n ≤255
[Description]	Prints the data in the print buffer and feeds the paper
	[n X vertical or horizontal motion unit] inches.

ESC L								
[Name]	Select nage mode							
[Format]	Select page mode. ASCII ESC L							
[Format]	Hex 1B 4C							
	Decimal 27 76							
[Decenintics]		. to woode						
[Description]	Switches from standard mod	e to page mode.						
ESC M n								
[Name]	Select character font.							
[Format]	ASCII ESC M	n						
	Hex 1B 4D	n						
	Decimal 27 77	n						
[Range]	n = 0, 1, 48, 49							
[Description]	Selects character fonts.							
	1 <del>-</del>							
n	Function	0.4) 1 1 1						
0, 48	Character font A (12 ×	/						
1, 49	Character font B (9 ×1	7) selected.						
ESC R n								
	Calant an international above	ator oot						
[Name]	Select an international chara							
[Format]	ASCII ESC R	n						
		1						
[D ]		n						
[Range]	0 ≤n ≤10		ha falla ta falla					
[Description]	Selects an international char	acter set in from t	the following table.					
[Default]	n = 0							
n	Character set	n	Character set					
0	U.S.A	5	Sweden					
1	France	6	Italy					
2	Germany	7	Spain					
3	U.K	9	Norway					
4	Denmark 1	10	Denmark 2					
1	Bonnark	10	Bonnance					
ESC S								
[Name]	Select standard mode							
[Format]	ASCII ESC S							
	Hex 1B 53							
	Decimal 27 83							
[Description] Switches from page mode to standard mode.								

ESC T n								
[Name]	Select print direction in page mode.							
[Format]	ASCII ESC T n							
[i official]	Hex 1B 54 n							
	Decimal 27 84 n							
[Range]	0 ≤n ≤3							
[Description]	48 ≤n ≤51							
[Default]	Selects the print direction and starting position in page mode.							
	n specifies the print direction and starting position as follows :							
	· · ·							
n	Print DirectionStarting Position $A \rightarrow \rightarrow \rightarrow \rightarrow$ $\Box$							
0, 48	Left right Upper left (A in the figure) ↑							
1, 49	Bottom to top Lower left (B in the figure)							
2, 50	Right to left Lower right (C in the figure) ↓							
3, 51	Top to bottomUpper right (D in the figure) $\Box$ $\leftarrow \leftarrow \leftarrow \leftarrow C$							
ESC V n	T 000 h h i h i h / "							
[Name]	Turn 90°clockwise rotation mode on/off.							
[Format]	ASCII ESC V n							
	Hex 1B 56 n							
[Danga]	Decimal 27 86 n 0 ≤n ≤1, 48 ≤n ≤49							
[Range] [Description]	Turn 90°clockwise rotation mode on/off.							
[Description]	n is used as follows :							
n	Function							
0, 48	Turn off 90° clockwise rotation mode.							
1, 49	Turn on 90° clockwise rotation mode.							
	yL yH dxL dxH dyL dyH							
[Name]	Set printing area in page mode.							
[Format]	ASCII ESC W xL xH yL yH dxL dxH dyL dyH							
	Hex 1B 57 xL xH yL yH dxL dxH dyL dyH							
[Danga]	Decimal 27 87 xL xH yL yH dxL dxH dyL dyH							
[Range]	$0 \leq xL xH yL yH dxL dxH dyL dyH \leq 255$ (except dxL=0 or dyL=dyH=0)							
[Description] The horizontal starting position, vertical starting position, printing a								
	width, and printing area height are defined as x0, y0, dx (inch), respectively.							
	$x0 = [(xL + xH \times 256)] \times (horizontal motion unit)]$							
	$y_0 = [(y_L + y_H \times 256)] \times (vertical motion unit)]$							
	$dx = [(dxL + dxH \times 256)] \times (horizontal motion unit)]$							
	$dy = [(dyL + dyH \times 256)] \times (horizontal motion unit)]$ $dy = [(dyL + dyH \times 256)] \times (horizontal motion unit)]$							
	The printing area is set as shown in the figure below.							

ESC \ n								
[Name]	Set r	elative print	position.					
[Format]	ASCI		· \	nL	nH			
	Hex	1B	5C	nL	nH			
	Decir	nal 27	92	nL	nH			
[Range]		≤255						
[		l ≤255						
[Descripti			tina positi	on b	ased on the current position by using the			
[20001]pt	-	ontal or verti	• •					
	-			-	-			
	<ul> <li>* This command sets the distance from the current position to [(nL + nH ×256) ×horizontal or vertical motion unit]</li> </ul>							
	Ľ		o)	ornear				
ESC a n								
[Name]		justification						
[Format]	ASCII	ESC	а	n				
	Hex	1B	61	n				
	Decim	al 27	97	n				
[Range]	0 ≤nL	≤2, 48 ≤nL ≤	≤50					
[Descripti	on] Aligns	all the data	in one lin	e to t	the specified position.			
		cts the type						
			-					
	n				Justification			
0	, 48				Left justification			
1	, 49				Centering			
	, 50			F	Right justification			
	· .							
ESC c 3 r	า							
[Name]	Select	paper sens	or(s) to o	utput	paper end signals.			
[Format]	ASCII	• •	Ċ	3	n			
	Hex	1B		33	n			
	Decim		99	51	n			
[Range]	0 ≤n ≤			-				
[Descripti	-		sensor(s)	to o	utput paper end signals.			
<b>L</b>		ch bit of n is						
Bit	Off/On	Hex	Decim	al	Function			
0	Off	00	0		Paper roll near-end sensor disable.			
	On	01	1		Paper roll near-end sensor enable.			
1	Off	00	0		Paper roll near-end sensor disable.			
	On	02	2		Paper roll near-end sensor enable.			
2	Off	00	0		Paper roll end sensor disable.			
	On	04	4		Paper roll end sensor enable.			
3	Off	00	0		Paper roll end sensor disable.			
	On	08	8		Paper roll end sensor enable.			
4-7	-	-	-		Undefined.			
	1	1	1					

ESC c 4 r	1							
[Name]								
[Format]	ASCII	ESC	Ċ	4	n			
	Hex	1B	63	34	n			
	Decim	al 27	99	52	n			
[Range]	0 ≤nL :	≤255						
[Descripti	on] Select	s the paper	sensor(	s) use	ed to st	top printing when a paper-end is		
	detect	ed, using n a	as follows	;:				
Bit	Off/On	Hex	Decim	al	Function			
0	Off	00	0			er roll end sensor disable.		
	On	01	1			er roll end sensor enable.		
1	Off	00	0			er roll end sensor disable.		
	On	02	2			er roll end sensor enable.		
2-7	-	-	-		Unde	efined.		
ESC c 5 r		L. / D:		4				
[Name]		le / Disable	•		_			
[Format]	ASCI		C	3	n			
	Hex	1B	63	35	n			
[Dongo]	Decir 0 ≤n :		99	53	n			
[Range] [Descripti		≤255 les or disabl	es the na	nol hu	itton			
[Description	-		•			ons are enabled.		
						ons are disabled.		
	vvii		511110 1, 1					
ESC d n								
[Name]	Print	and feed n l	ines.					
[Format]	ASCI	I ESC	d	n				
	Hex	1B	64	n				
	Decir	nal 27	100	n				
[Range]	0 ≤n :	≤255						
[Descripti	on] Prints	s the data in	the print	buffer	and fee	eds n lines.		
ESC p m								
[Name]		erate pulse.						
[Format]	ASCI		р	m	t1	t2		
	Hex	1B	70	m	t1	t2		
	Decir		112	m	t1	t2		
[Range] m = 0, 1, 48, 49								
		≤255, 0 ≤t2		اهلينا ام		to compositor air as as follows		
[Descripti	onj Outp	uts the pulse	especifie	a by t1	i and t2	to connector pin m as follows.		
	m				Conr	nector pin		
	0, 48			Drawo		but connector pin 2		
						but connector pin 5		
	1, 49			Diawe	T NICK-O			

#### **SRP-350**

ESC t n									
[Name]	Sel	ect cha	aracter o	code tab	le.				
[Format]	AS	ASCII ESC t n							
		Hex 1B 74 n							
	-	Decimal 27 116 n							
[Range]			= 255						
[Descript		•		from the	chara	cter code	e tab	le	
[Becomp		0010 0	pagen		onara		e lab		
	n						Page	;	
	0		0 (PC43	37 {USA	, stand	ard Eurc	ope})		
	1		1 (Katał	kana)					
	2		2 (PC85	50 (Multi	lingual	})			
	3			0 (Portu					
	4			3 {Cana					
	5			5 {Nord					
	19			358 {Eur					
	255		Space p		-]/				
ESC { n									
[Name]	Tur	ns on /	<sup>/</sup> off ups	ide-dowi	n printi	ng mode	e.		
[Format]	AS	CII	ESC	{	n				
	Hex	<	1B	7B	n				
	Dec	cimal	27	123	n				
[Range]	0 ≤	n ≤255	5						
[Descript	tion] Tur	ns ups	ide-dow	n printin	ig mod	e on or o	off.		
			he LSB of n is 0, upside-down printing mode is turned off.						
								ing mode is turned on.	
					<i>,</i> 1		•	5	
FSpnm									
[Name]	Prir	nt NV b	oit image	Э.					
[Format]	AS	CII	FS	р	n	m			
	Hex	<b>(</b>	1C	70	n	m			
	Dec	cimal	28	112	n	m			
[Range]	1 ≤	n ≤255	i						
	0 ≤	m ≤3, 4	48 ≤m ≤	51					
[Descript					sing the	e mode s	speci	fied by m.	
-	-			0	Ū		•		
m	Mod	е	Ver	ical Dot	Densit	ty (DPI)		Horizontal Dot Density (DPI)	
0, 48	Norm	al		1	80			180	
1, 49	Double-	width		1	80			90	
2, 50	Double-h	neight			90			180	
3, 51	Quadru			ļ	90			90	
* n is the number of the NV bit image (defined using the FS g command).						ed using the FS g command).			

\* n is the number of the NV bit image (defined using the FS q command).
\* m specifies the bit image mode.

FS q n [xL xH	yL yH d1	.dk]1.	[xL x	:H yL	_ yH d1dk]n					
[Name]	Defined N	VV bit	image							
[Format]	ASCII	FS	q	n	[xL xH yL yH d1dk]1[xL xH yL yH d1dk]n					
	Hex	1C	71	n	[xL xH yL yH d1dk]1[xL xH yL yH d1dk]n					
	Decimal	28	113	n	[xL xH yL yH d1dk]1[xL xH yL yH d1dk]n					
[Range]	1 ≤n ≤25	5								
	0 ≤xL ≤25	0 ≤xL ≤255								
	0 ≤xH ≤3	(wher	א)≥ 1 ר <mark>ו</mark>	(L + )	xH ×256) ≤1023					
	0 ≤yL ≤3	0 ≤yL ≤3 (when 1 ≤(xL + xH ×256) ≤288								
	1 ≤d ≤25	5								
	k = (xL +	xH ×2	256) ×(	yL +	yH ×256) ×8					
	Total defi	ned da	ata are	ea =	2M bits (256K bytes)					
[Description]	Define th	e NV I	oit ima	ige s	specified by n.					
	* n specifies the number of the defined NV bit image.									
		* xL, xH specifies (xL + xH ×256) ×8 dots in the horizontal direction								
for the NV bit image you are defining.										
					/H ×256) ×8 dots in the vertical direction					
	for the	e NV k	oit ima	ge y	ou are defining.					

GS ! n							
[Name]	Select cha	Select character size.					
[Format]	ASCII	GS	!	n			
	Hex	1D	21	n			
	Decimal	29	33	n			
[Range]	0 ≤n ≤255						
	(1 ≤vertical number of times ≤8, 1 ≤horizontal number of times ≤8)						
[Description]		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				
0-3		Character height selection. See Table 2						
4-7	Character width selection. See Table 1							

	Tal	ble 1			Tabl	e 2
	Character W	idth Selection			Character Hei	ght Selection
Hex	Decimal	Width		Hex	Decimal	Height
00	0	1 (normal)		00	0	1 (normal)
10	16	2 (double-width)		01	1	2 (double-width)
20	32	3		02	2	3
30	48	4		03	3	4
40	64	5		04	4	5
50	80	6		05	5	6
60	96	7	]	06	6	7
70	112	8	]	07	7	8

GS \$ nL nH	4								
[Name]		e vertical prin	t positior	n in pac	le mode				
[Format]	ASCII	GS \$	nL	nH					
[i onnat]	Hex	1D 24	nL	nH					
	Decimal	29 36	nL	nH					
[Range]		, 0 ≤nH ≤255							
[Description		bsolute vertic	al print s	tarting	position for				
		aracter data ir							
		nand sets the			position to				
					I motion unit)] inches.				
		(1011			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	d(x ×y ×8)								
[Name]		nloaded bit in	nage.						
[Format]	ASCII	GS *	Х	У	d1d(x ×y ×8)				
	Hex	1D 2A	Х	У	d1d(x ×y ×8)				
	Decimal	29 42	Х	У	d1d(x ×y ×8)				
[Range]	1 ≤x ≤255,								
		x x y ≤1536, 0 ≤d ≤255							
[Descriptio	-	Defines a downloaded bit image using the dots specified by x and y.							
					prizontal direction.				
	* y indicate:	s the number	of dots in	n the ve	ertical direction.				
GS / m									
[Name]	Print downl	oaded bit ima	ae.						
[Format]		GS /	m						
[	Hex	1D 2F	m						
	Decimal	29 47	m						
[Range]	0 ≤m ≤3, 48								
[Description			made us	ina the	mode specified by m.				
[	-	mode from th	•	•					
m	Mode	Vertical De	ot Densit	y (DIP)	Horizontal Dot Density (DIP)				
0, 48	Normal	I 180			180				
1, 49	Double-width	ble-width 180			90				
2, 50	Double-height		90		180				
3, 51	Quadruple		90		90				
GS :									
[Nomo]	Start/End ~	acro dofinitio	n						

GS :						
[Name]	Start/End	Start/End macro definition.				
[Format]	ASCII	GS	:			
	Hex	1D	3A			
	Decimal	29	58			
[Description]	Starts or e	ends ma	cro definition.			

GS B n			
[Name]	Turn white/black reve	erse printing mode on/off.	
[Format]	ASCII GS	B n	
		42 n	
	Decimal 29	66 n	
[Range]	0 ≤n ≤255		
[Description]		/black reverse printing mode	
		), white/black reverse printin	•
	* When the LSB is 1	l, white/black reverse printin	g mode is turned on.
GSHn			
[Name]	Select printing position		
[Format]	ASCII GS	B n	
	-	48 n	
		72 n	
[Description]		osition of HRI characters wh	nen printing a bar code.
	n selects the printing	position as follows :	
n	Printing positio	n	
0, 48	Not printed.		
1, 49	Above bar cod		
2, 50	Below bar code		
3, 51		d below the bar code.	
	* HRI indicates Hun	nan Readable Interpretation.	
GSIn			
[Name]	Transmit printer ID.		
[Format]	ASCII GS	l n	
		49 n	
(D 1		73 n	
[Range]	1 ≤n ≤3, 49 ≤n ≤51		_
[Description]	mansmits the printer	ID specified by n as follows	-
	Printer ID	Specification	ID (boyodooimal)
n 1 40	Printer model ID	SRP-350 series	ID (hexadecimal)
1, 49			20 02
2, 50	Type ID	Dopondo on DOM version	
3, 51	ROM version ID	Depends on ROM versior	n 02

GS L nL nH								
[Name]	Set left margin.							
[Format]	ASCII GS L nL nH							
	Hex 1D 4C nL nH							
	Decimal 29 76 nL nH							
[Range]	0 ≤nL ≤255, 0 ≤nH ≤255							
[Descriptior								
	* The left margin is set to [(nL + nH ×256) ×horizontal motion unit] inches. Printable area							
	<b>▲</b>							
	Left margin Printing area width							
	5							
GS P x y								
[Name]	Set horizontal and vertical motion units.							
[Format]	ASCII GS P x y							
	Hex 1D 50 x y							
[Denge]	Decimal 29 80 x y							
[Range] [Descriptior	$0 \le x \le 255, 0 \le y \le 255$ Sets the horizontal and vertical motion units to approximately 25.4/x mm							
[Description	{1/x inch and } and approximately 25.4/y mm {1/y inches }, respectively.							
	When x and y are set to 0, the default setting of each value is used.							
	When X and y are set to s, the delaat setting of each value is dood.							
1 GS V m	, ② GS V m n							
[Name]	Select cut mode and cut paper.							
[Format]	① ASCII GS V m ② ASCII GS V m n							
	Hex 1D 56 m Hex 1D 56 m n							
	Decimal 29 86 m Decimal 29 86 m n							
[Range]	① m = 0,1,48,49 ② m = 65,66, 0 ≤n ≤255							
[Description] Selects a mode for cutting paper and executes paper cutting.								
	The value of m selects the mode as follows :							
m	Print mode							
0,1,49	Partial cut (one point left uncut)							
66	Feeds paper (cutting position + [nX(vertical motion unit)]),							
and cuts the paper partially (one point uncut).								

GS W nL nH	
[Name]	Set printing area width.
[Format]	ASCII GS W nL nH
	Hex 1D 57 nL nH
	Decimal 29 87 nL nH
[Range]	0 ≤nL ≤255, 0 ≤nH ≤255
[Description]	Sets the printing area width to the area specified by nL and nH.
	* The printing area width is set to
	[(nL + nH ×256) ×horizontal motion unit] inches.
	Printable area
	◄
	Left margin Printing area width
	Left margin Frinding area width
GS \ nL nH	
[Name]	Set relative vertical print position in page mode.
[Format]	ASCII GS \ nL nH
[	Hex 1D 5C nL nH
	Decimal 29 92 nL nH
[Range]	0 ≤nL ≤255, 0 ≤nH ≤255
[Description]	Sets the relative vertical print starting position from the current position in
	page mode.
	* This command sets the distance from the current position to
	[(nL + nH ×256) ×vertical or horizontal motion unit] inches.
CSArtm	
GS ^ r t m	
[Name]	Execute macro.
[Format]	
	Hex 1D 5E r t m Decimal 29 94 r t m
[Dongo]	
[Range]	0 ≤r ≤255, 0 ≤t ≤255 m = 0, 1
[Description]	m = 0, 1
[Description]	Executes a macro. * r specifies the number of times to execute the macro.
	<ul> <li>* t specifies the waiting time for executing the macro.</li> <li>* m specifies macro executing mode.</li> </ul>
	When the LSB of $m = 0$
	The macro executes r times continuously at the interval specified by t. When the LSR of $m = 1$ .
	When the LSB of $m = 1$ :
	After waiting for the period specified by t, the PAPER OUT LED
	indicators blink and the printer waits for the FEED button to be
	pressed. After the button is pressed, the printer executes the macro
	once. The printer repeats the operation r times.

(	GS a n							
[	Name] Enable/Disable Automatic Status Back.							
Ī	Forma	t]	ASCII	GS a	n			
		-	Hex	1D 61	n			
			Decimal	29 97	n			
[Range] 0 ≤n ≤255								
Ī	[Description] Enables or disables ASB and specifies the status items to include, using n							
	as follows :							
	Bit	Off/On	Hex	Decimal	Status for ASB			
	0	Off	00	0	Drawer kick-out connector pin 3 status disabled.			
	0	On	01	1	Drawer kick-out connector pin 3 status enabled.			
	1	Off	00	0	On-line / Off-line status disabled.			
	I	On	02	2	On-line / Off-line status enabled.			
	0	Off	00	0	Error status disabled.			
	2	On	04	4	Error status enabled.			
			04					
	3	Off	00	0	Paper roll sensor status disabled.			

Undefined.

[Details]

4-7

\_

\_

\_

\* If any of the status items in the table above are enabled, the printer transmits the status when this command is executed. The printer automatically transmits the status whenever the enabled status item changes. The disabled status items may change, in this case, because each status transmission represents the current status.

- \* If all status items are disabled, the ASB function is also disabled.
- \* If the ASB is enabled as a default, the printer transmits the status when the printer data reception and transmission is possible at the first time from when the printer is turned on.
- \* The following four status bytes are transmitted without confirming whether the host is ready to receive data. The four status bytes must be consecutive, except for the XOFF code.
- \* Since this command is executed after the data is processed in the receive buffer, there may be a time la between data reception and status transmission.
- \* When the printer is disabled by ESC= (Select peripheral device), the four status bytes are transmitted whenever the status changes.
- \* The status to be transmitted are as follows :

#### First byte (printer information)

			,	
Bit	Off/On	Hex	Decimal	Status for ASB
0	Off	00	0	Not used. Fixed to Off.
1	Off	00	0	Not used. Fixed to Off.
2	Off	00	0	Drawer kick-out connector pin 3 is LOW.
2	On	04	4	Drawer kick-out connector pin 3 is HIGH.
3	Off	00	0	Online.
5	On	08	8	Offline.
4	On	10	16	Not used. Fixed to On.
5	Off	00	0	Cover is closed.
5	On	20	32	Cover is open.
	Off	00	0	Paper is not being fed by using the PAPER FEED
6				button.
	On	40	64	Paper is being fed by using the PAPER FEED
				button.
7	Off	00	0	Not used. Fixed to Off.

#### Second byte (printer information)

Bit	Off/On	Hex	Decimal	Status for ASB
0	-	-	-	Undefined.
1	-	-	-	Undefined.
2	-	-	-	Undefined.
3	Off	00	0	No Auto-cutter error.
5	On	08	8	Auto-cutter error occurred.
4	Off	00	00	Not used. Fixed to Off.
5	Off	00	0	No unrecoverable error.
5	On	20	32	Unrecoverable error occurred.
6	Off	00	0	No automatically recoverable error.
0	On	40	64	Automatically recoverable error occurred.
7	Off	00	0	Not used. Fixed to Off.

Bit 3 : If these errors occur due to paper jams or the line, it is possible to recover by correcting the cause of the error and executing DLE ENQ n (1≤n≤2). If an error due to a circuit failure (e.g. wire break) occurs, it is impossible to recover.

Bit 6 : When printing is stopped due to high print head temperature until the print head temperature drops sufficiently or when the paper roll cover is open during printing, bit 6 is On.

Bit	Off/On	Hex	Decimal	Status for ASB
0,1	Off	00	0	Paper roll Near-END sensor : paper adequate.
0,1	On	03	3	Paper roll Near-END sensor : paper near end.
2,3	Off	00	0	Paper roll end sensor : paper present.
2,3	On	0C	12	Paper roll end sensor : paper not present.
4	Off	00	0	Not used. Fixed Off.
5,6	-	-	-	Undefined.
7	Off	00	0	Not used. Fixed Off.

#### Third byte (paper sensor information)

#### Fourth byte (paper sensor information)

Bit	Off/On	Hex	Decimal	Status for ASB
0-3	-	-	-	Undefined.
4	Off	00	0	Not used. Fixed Off.
5,6	-	-	-	Undefined.
7	Off	00	0	Not used. Fixed Off.

[Default] n=0 when DIP SW 2-1 is Off, n=2 when DIP SW 2-1 is On.

GSfn						
[Name]	Select font	t for Hu	man Rea	adable Ir	terpretation(HRI) cha	aracters.
[Format]	ASCII	GS	f	n	1 ( )	
	Hex	1D	66	n		
	Decimal	29	102	n		
[Range]	n = 0, 1, 48, 49					
[Description] Selects a font for the HRI characters used when printing a n selects a font from the following table :				g a bar code.		

n	Font
0, 48	Font A (12 ×24)
1, 49	Font B (9 ×17)

GShn					
[Name]	Set bar code height.				
[Format]	ASCII	GS	f	n	
	Hex	1D	68	n	
	Decimal	29	104	n	
[Range]	1 ≤ n ≤255	5			
[Description]	Set the height of the bar code. n specifies the number of dots in the vertical direction.				

1 GS k m d1dk NUL, 2 GS k m n d1dn							
[Name]	Print bar code	Print bar code.					
[Format]	1 ASCII	GS	k	m	d1…dk	NUL	
	Hex	1D	6B	m	d1…dk	00	
	Decimal	29	107	m	d1…dk	0	
	2 ASCII	GS	k	m	n	d1dn	
	Hex	1D	6B	m	n	d1dn	
	Decimal	29	107	m	n	d1dn	
[Range]	1) 0 ≤m ≤6 (k	and d	depends	on the	e bar code s	system used.)	
	② 65 ≤m ≤73 (n and d depends on the bar code system used.)						
[Description]	Selects a bar code system and prints the bar-code. m selects a bar ode system as follows :						

n	n	Bar Code System	Number of Characters	Remarks
	0	UPC-A	11 ≤k ≤12	48 ≤d ≤57
	1	UPC-E	11 ≤k ≤12	48 ≤d ≤57
	2	JAN13(EAN13)	12 ≤k ≤13	48 ≤d ≤57
	3	JAN8(EAN8)	7 ≤k ≤8	48 ≤d ≤57
1	4	CODE 39	1 ≤k	48 ≤d ≤57, 65 ≤d ≤90, 32, 36, 37, 43, 45, 46, 47
	5	ITF	1 ≤k (even number)	48 ≤d ≤57
	6	CODABAR	1 ≤k	48 ≤d ≤57,
	0	CODADAR	I SK	65 ≤d ≤68, 36, 43, 45, 46, 47 ,58
	65	UPC-A	11 ≤n ≤12	48 ≤d ≤57
	66	UPC-E	11 ≤n ≤12	48 ≤d ≤57
	67	JAN13(EAN13)	12 ≤n ≤13	48 ≤d ≤57
	68	JAN8(EAN8)	7 ≤n ≤8	48 ≤d ≤57
2	69	CODE 39	1 ≤n ≤255	48 ≤d ≤57, 65 ≤d ≤90, 32, 36, 37, 43, 45, 46, 47 d1 = dk = 42(1)
	70	ITF	1 ≤n ≤255 (even number)	48 ≤d ≤57
	71	CODABAR	1 ≤n ≤255	48 ≤d ≤57, 65 ≤d ≤68, 36, 43, 45, 46, 47 ,58
	72	CODE 93	1 ≤ n ≤255	0 ≤d ≤127
	73	CODE 128	1 ≤ n ≤255	0 ≤d ≤127

GSrn					
[Name]	Transmit	status.			
[Format]	ASCII	GS	V	n	
	Hex	1D	72	n	
	Decimal	29	114	n	
[Range]	n = 1, 2, 4	9, 50			
[Description]	Transmits the status specified by n as follows.				

GS v 0 m xL x	GS v 0 m xL xH yL yH d1dk										
[Name]	Print raste	Print raster bit image.									
[Format]	ASCII	GS	V	0	m	хL	хH	уL	yН	d1…dk	
	Hex	1D	76	30	m	хL	хH	уĹ	уĤ	d1dk	
	Decimal	29	118	48	m	хL	хH	уL	уН	d1…dk	
[Range]	0 ≤m ≤3, 4	48 ≤m ≤	51								
	0 ≤xL ≤25	5									
	0 ≤xH ≤25	55									
	0 ≤yL ≤25	5									
	0 ≤d ≤255	5									
	k = (xL + x	xH ×256	i) ×(yL ·	+ yH ×	256)	(k ≠0)					
[Description]	Selects R	laster b	it-imag	e mod	le. Th	ne val	ue of	m se	elects	the mode,	as
	follows :		-								

m	Mode	Vertical Dot Density (DIP)	Horizontal Dot Density (DIP)
0, 48	Normal	180 DPI	180 DPI
1, 49	Double-width	180 DPI	90 DPI
2, 50	Double-height	90 DPI	180 DPI
3, 51	Quadruple	90 DPI	90 DPI

\* xL, xH, select the number of data bits (xL + xH ×256) in the horizontal direction for the bit image.

\* yL, yH, select the number of data bits (yL + yH ×256) in the vertical direction for the bit image.

GS w n

[Name]	Set bar code width.				
[Format]	ASCII	GS	w	n	
	Hex	1D	77	n	
	Decimal	29	119	n	
[Range]	2 ≤n ≤6				
[Description]	Set the horizontal size of the bar code n specifies the bar code width as follo				

n	Module width for multi-	Binary-level bar code				
n	level bar code	Thin element width (mm)	Thick element width (mm)			
2	0.282	0.282	0.706			
3	0.423	0.423	1.129			
4	0.564	0.564	1.411			
5	0.706	0.706	1.834			
6	0.847	0.847	2.258			

\* Multi-level bar codes are as follows :

UPC-A, UPC-E, JAN13(EAN13), JAN8(EAN8), CODE93, CODE128. \* Binary-level bar codes are as follows :

CODE39, ITF, CODABAR.

## 3. Appendix (Star Mode Command Summary)

Control codes	Hexadecimal codes	Function
<esc> "R" n</esc>	1B 52 n	Select international character set
<esc> <gs> t n</gs></esc>	1B 1D 74n	Select character table
<esc> "/" "1"</esc>	1B 2F 31	
<esc> "/" &lt;1&gt;</esc>	1B 2F 01	Select slash zero
<esc> "/" "0"</esc>	1B 2F 30	Coloct normal zoro
<esc> "/" &lt;0&gt;</esc>	1B 2F 00	Select normal zero
<esc> "b" n1 n2 n3</esc>	1B 62 n1 n2 n3 n4	Select her eads printing
n4 d1 dk <rs></rs>	d1 dk 1E	Select bar code printing
<esc> "M"</esc>	1B 4D	Select 12-dot pitch printing
<esc> "p"</esc>	1B 70	Select 14-dot pitch printing
<esc> "P"</esc>	1B 50	Select 15-dot pitch printing
<esc> ":"</esc>	1B 3A	Select 16-dot pitch printing
<esc> <sp> n</sp></esc>	1B 20 n	Set character spacing
<so></so>	0E	Sets the printing magnified double in
		character width.
<dc4></dc4>	14	Resets the printing magnified in character
		width.
<esc> "W" n</esc>	1B 57 n	Sets the magnification rate in character width.
<esc> <so></so></esc>	1B 0E	Sets the printing magnified double in
		character height.
<esc> <dc4></dc4></esc>	1B 14	Resets the printing magnified in character
		height.
<esc> "h" n</esc>	1B 68 n	Sets the magnification rate in character
<esc> "-" "1"</esc>	1B 2D 31	height.
<esc> "-:" &lt;1&gt;</esc>	1B 2D 01	Select underlining
< <u>ESC&gt;</u> "_" "1"	1B 5F 31	
<esc> " " &lt;1&gt;</esc>	1B 5F 01	Select over lining
<esc> "4"</esc>	1B 34	Select highlight printing
<esc> "5"</esc>	1B 35	Cancel highlight printing
<si></si>	0F	Inverted printing
<dc2></dc2>	12	Cancel inverted printing
<esc> "E"</esc>	1B 45	Select emphasized printing
<esc> "F"</esc>	1B 46	Cancel emphasized printing
<esc> "C" n</esc>	1B 43 n	Set page length in lines
<esc> "C" &lt;0&gt; n</esc>	1B 43 00 n	Set page length in inches
<esc> "N" n</esc>	1B 4E n	Set bottom margin
<esc> "O"</esc>	1B 4F	Cancel bottom margin
<esc> "I" n</esc>	1B 6C n	Set left margin
<esc> "Q" n</esc>	1B 51 n	Set right margin
<lf></lf>	0A	Line Feed
<esc> "a" n</esc>	1B 61 n	Feed paper n lines
<ff></ff>	0C	Form Feed
<ht></ht>	09	Horizontal tab
<vt></vt>	0B	Vertical tab
<esc> "z" "1"</esc>	1B 7A 31	Set line spacing to 4 mm

Control codes	Hexadecimal codes	Function
<esc> "0"</esc>	1B 30	Set line spacing to 3 mm
<esc> "J" n</esc>	1B 4A n	One time n/4 mm feed
<esc> "I" n</esc>	1B 49 n	One time n/8 mm feed
<pre><esc> "B" n1</esc></pre>		
n2<0>	1B 42 n1 n2 00	Set vertical tab stops
<esc> "D" n1 n2&lt;0&gt;</esc>	1B 44 n1 n2 00	Set horizontal tab stops
<esc> <gs> "A" n1 n2</gs></esc>	1B 1D 41 n1 n2	Absolute position setting
<esc> <gs> "R" n1 n2</gs></esc>	1B 1D 52 n1 n2	Relative position setting
<esc> <gs> "a" n</gs></esc>	1B 1D 61 n	Alignment
<esc> "K" n &lt;0&gt; m1 m2</esc>	1B 48 n 00 m1 m2	Print normal density graphics
<esc> "L" n &lt;0&gt; m1 m2</esc>	1B 4C n1 n2 m1 m2	Print high density graphics
<esc> "k" n &lt;0&gt; d1</esc>	1B 6B n 00 d1	Print fine density graphics
ESC> "X" n1 n2	1B 58 n1 n2	Print fine density graphics
<pre><esc> <fs> "p" n m</fs></esc></pre>	1B 1C 70 n m	Print NV bit image
<pre><esc> "&amp;" "1" "1"</esc></pre>	1B 26 31 31 n	
n m1 m2 m48	m1 m2 m48	
<esc> "&amp;" &lt;1&gt; &lt;1&gt;</esc>	1B 26 01 01	Define download character
n m1 m2 m48	n m1 m2 m48	
<esc> "&amp;" "1" "0" n</esc>	1B 26 31 30 n	
<pre><esc> "&amp;" &lt;1&gt; &lt;0&gt; n</esc></pre>	1B 26 01 00 n	Delete a download character
<pre><esc> "%" "1"</esc></pre>	1B 25 31	
<esc> "%" &lt;1&gt;</esc>	1B 25 01	Enable download character set
<esc> "%" "0"</esc>	1B 25 30	D'achte de la desta de constructor
<esc> "%" &lt;0&gt;</esc>	1B 25 00	Disable download character set
<esc> <gs> "*" xy</gs></esc>	1B 1D 2A 78 79	Definition of download bit image
<esc> <gs> "/" m</gs></esc>	1B 1D 2F 6D	Printing of download bit image
<esc> <bel> n1 n2</bel></esc>	1B 07 n1 n2	Define drive pulse width for peripheral device #1.
<bel></bel>	07	Control peripheral device #1
<fs></fs>	1C	Control peripheral device #1 immediately.
<em></em>	19	Control peripheral device #2 immediately
<sub></sub>	1A	Control peripheral device #2 immediately
<esc> "d" n</esc>	1B 64 n	Partial-cut command to the auto cutter.
<can></can>	18	Cancel last line & Initialize printer immediately
<dc3></dc3>	13	Deselect printer
<dc1></dc1>	10	Set select mode
<rs></rs>	1E	Beep the buzzer
<esc> "@"</esc>	1B 40	Initialize printer
< <u>ENQ&gt;</u>	05	Inquiry (Status inquiry)
<eot></eot>	04	Near end status inquiry
<pre><esc> "?" <lf> <nul></nul></lf></esc></pre>		Reset printer hardware (Perform test print)
<esc> ? <lp> <nol> <esc> "8" n1 n2</esc></nol></lp></esc>		Registers a logo pattern
	1B 38 n1 n2	
<esc> "9" n1 n2</esc>	1B 39 n1 n2	Prints a logo pattern