## Ttanca

## Manual de Comandos

## TSM-1000



## 

HT

| [Name] | Horizontal tab |  |
| :---: | :---: | :---: |
| [Format] | ASCII | HT |
|  | Hex | 09 |
|  | Decimal | 9 |
| [Description] | Move the current position to the next tab position |  |
| [Note] | - If the next tab position werent set, this order should be ignored <br> - If the next horizontal tab position is beyond printing area, the current position should be set as [Printing width+1] <br> - Use ESC D to set the horizontal tab position. <br> - If current position is in[Printing width+1] when receiving this order, the printer runs the current buffer full actions and move printing position to the beginning of next line. <br> - The default tab position is to tab by each 8 standard ASCII characters(12x24) <br> - When the current buffer area is full, printer runs below actions: printer prints contents of current line and move the print position to the beginning of next line. |  |
| [Reference] | ESC D |  |

## LF

| [Name | Print and line feed |  |
| :---: | :--- | :--- |
| Format] | ASCII | LF |
|  | Hex | OA |
|  | Decimal | 10 |
| [Description] | Print the data in buffer and line feed |  |
| [Note] | Q This order puts current position to the begins of a line |  |
| [Reference] | ESC 2, ESC 3 |  |

ESC SP n

| [Name] | Set right-side character spacing |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | ESC | SP | n |
|  | Hex |  | 20 | n |
|  | Decimal | 27 | 32 | n |
| [Range] | On255 |  |  |  |
| [Description] | Set the right-side character interspaces as N point |  |  |  |
| [Note] | - This setting only valid to character instead of Chinese. <br> - When character enlarges the interspaces enlarge correspondingly with same multiples. |  |  |  |
| [Default] | $\mathrm{n}=0$ |  |  |  |
| [Reference] | ESC 2, ESC 3 |  |  |  |

ESC!n

| [Name] | Batch specify print mode |  |  |
| :---: | :--- | :--- | :--- |
| [Format] | ASCII | ESC $\quad$ n |  |
|  |  |  |  |


|  | Hex |  | 1B | 21 n |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Decimal |  | 27 | 33 n |  |
| [Range] | On255 |  |  |  |  |
| [Description ] | Set the character print mode by the N value |  |  |  |  |
|  |  | 1/0 | HEX | Decima | Function |
|  | 0,1,2 |  |  |  | undefined |
|  | 3 | 0 | 00 | 0 | cancel the bold mode |
|  |  | 1 | 08 | 8 | select the bold mode |
|  | 4 | 0 | 00 | 0 | cancel the multi-high mode |
|  |  | 1 | 10 | 16 | select the multi-high mode |
|  | 5 | 0 | 00 | 0 | cancel the multi-wide mode |
|  |  | 1 | 20 | 32 | select the multi-wide mode |
|  | 6 |  |  |  | undefined |
|  | 7 | 0 | 00 | 0 | cancel the underline mode |
|  |  | 1 | 80 | 128 | select the underline mode |
| [Note] | When selecting the multi-high and multi-wide mode in the same time, the characters double in either horizontal and vertical way. <br> Except the spaces set by HT and characters printed by rotating, any other characters could be underlined. <br> ESC- defines the underline but not the characters. <br> When some characters within one line are multi-high or more, all characters align to bottom. <br> ESC E could also select or cancel the bold mode. The final executed order is valid. <br> ESC could also select or cancel underline mode. The final executed order is valid <br> GS ! could also set the character size. Final executed order is valid. |  |  |  |  |
| [Default] | $\mathrm{n}=0$ |  |  |  |  |
| [Reference] | ESC -, ESC E, GS ! |  |  |  |  |

ESC \$ nL nH


ESC * m nL nH d1...dk


When selecting 14 dot density


ESC - n


ESC 2

| [Name] | Select default line spacing |  |
| :---: | :--- | :--- |
| [Format] | ASCII | ESC 2 |
|  | Hex | $1 \mathrm{~B} \quad 32$ |
|  | Decimal | $27 \quad 50$ |
| [Description] | Select 30 dots height. |  |
| [Note] |  |  |
| [Reference] | ESC 3 |  |

ESC 3 n


ESC @

| [Name] | Initialize printer |  |  |
| :---: | :--- | :--- | :---: |
| [Format] | ASCII | ESC @ |  |
|  | Hex | $1 \mathrm{~B} \quad 40$ |  |
|  | Decimal | $27 \quad 64$ |  |
|  | Eliminating the data in print buffer area. It is the default mode <br> when printing mode is set as power on. |  |  |
| [Note] | $\bullet$ Save contents in order buffer area. |  |  |

ESC D n1...nk NUL


ESC E n

| [Name] | Turn emphasized mode on/off |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | ESC | E | n |
|  | Hex | 1B | 45 | n |
|  | Decimal | 27 | 69 | n |
| [Range] | On255 |  |  |  |
| [Description] | Select or cancel bold mode <br> When the lowest position of n is 0 , the bold mode canceled. <br> When the lowest position of n is 1 , the bold mode selected |  |  |  |
| [Note] | - $\quad \mathrm{N}$ validates only at lowest position <br> - /ESC ! could also select/cancel bold mode. The final received order is valid. |  |  |  |
| [Default] | $\mathrm{n}=0$ |  |  |  |
| [Reference] | ESC ! |  |  |  |

## ESC G n

| [Name] | Turn on/off double-strike mode |  |  |
| :---: | :---: | :---: | :---: |
| [Format] | ASCII | ESC G | n |
|  | Hex | 1B 47 | n |
|  | Decimal | $27 \quad 71$ | n |
| [Range] | On255 |  |  |
| [Description] | Turn on/off double-strike mode nWhen the lowest position of n is 0 , cancel the double strike mode n1When the lowest position of n is 1 , turn on the double strike mode |  |  |
| [Note] | - N validates only at lowest position <br> - This order has same effect as bold printing. |  |  |
| [Default] | $\mathrm{n}=0$ |  |  |
| [Reference] | ESC E |  |  |

ESC J n

| [Name] | Print and feed paper |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | ESC | $J$ | n |
|  | Hex | 1B | 4A | n |
|  | Decimal | 27 | 74 | n |
| [Range] | On255 |  |  |  |
| [Description] | Print the data in buffer area and feed paper for n dots line. |  |  |  |
| [Note] | When printing finished, puts the current print position at beginning of line. <br> ESC 2 ESC 3 Feeding of paper wont be affected by ESC 2 or ESC 3 order set. <br> The max paper feed is $1016 \mathrm{~mm}(40)$. If distance exceeds it, the max value is taken. |  |  |  |
| [Reference] | GS P |  |  |  |

## ESC $\backslash \mathbf{n L} \mathbf{n H}$

[Name] Set relative print position

| [Format] | ASCII | ESC | 1 | nL | nH |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hex | 1B | 5C | nL | nH |
|  | Decimal | 27 | 92 | nL | nH |
| [Range] | 0 nL 2550 nH 255 |  |  |  |  |
| [Description] | Set relative print position by horizontal or vertical moving unit. <br> - This order sets the print position to ( $\mathrm{nL}+\mathrm{nH} \times 256$ ) dot from current position. |  |  |  |  |
| [Note] | - Settings exceed printable area are ignored. <br> - When print position moves right: $\mathrm{nL}+\mathrm{nH} \times 256=\mathrm{N}$ <br> - $n L+n H 256=65536$ NWhen print position moves left, $n L+n H 256=65536 \mathrm{~N}$ <br> - The print beginning point moves from current position to N dot. |  |  |  |  |
| [Reference] | ESC \$ |  |  |  |  |

ESC a n


ESC d n

| [Name] | Print and feed n lines |  |  |
| :---: | :---: | :---: | :---: |
| [Format] | ASCII | ESC d | n |
|  | Hex | 1B 64 | n |
|  | Decimal | 27100 | n |
| [Range] | 0 n 255 |  |  |
| [Description] | Print contents in buffer area and feed n lines(character line) |  |  |
| [Note] | - This command sets the start position of printer at the beginning of line. <br> - This command doesnt affect the line distance set by ESC2 or ESC3 <br> - The max feeding distance is 1016 mm . When value is larger than 1016 mm , take the max instead |  |  |
| [Reference] | ESC 2, ESC 3 |  |  |

GS ! n


GS B n

| [Name] | Turn white/black reverse printing mode |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | GS | B | n |
|  | Hex | 1D | 42 | n |
|  | Decimal | 29 | 66 | n |
| [Range] | 0 n 255 |  |  |  |
| [Description] | /Select/Cancel white black reverse printing mode <br> - When the lowest of $n$ is 0 , cancel the reverse printing. <br> - When the lowest of $N$ is 1 , select the reverse printing. |  |  |  |
| [Note] | - N only validates to lowest position. <br> - This command is effective to all characters(except the HRI character) <br> - By selecting reverse printing, character distance set by ESC SP reverses too. <br> - HRI HT,ESC \$,ESC \This command wont affect bmp, customized bmp, bar code HRI character and spaces set by HT,ESC \$,ESC $\backslash$ <br> - This command wont affect spaces between lines. <br> - White black reverse printing mode has higher priority than underline mode. When selecting reverse mode, the underline mode palls on. It wont affect until the reverse mode is canceled. |  |  |  |
| [Default] | $\mathrm{n}=0$ |  |  |  |

GS H n

| [Name] | Select printing position for HRI characters |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | GS | H | n |
|  | Hex | 1D | 48 | n |
|  | Decimal | 29 | 72 | n |
| [Range] | $0 \mathrm{n} 3,48 \mathrm{n} 51$ |  |  |  |
| [Description] | Select printing position for HRI character when printing bar codes. N defines the HRI printing position |  |  |  |
|  | n |  |  | printing position |
|  | 0,48 |  |  | No printing |
|  | 1,49 |  |  | Upon bar code |
|  | 2,50 |  |  | beneath bar code |
|  | 3,51 |  | print | both up and beneath bar code |
|  | - HRI is character to Note bar code content |  |  |  |
| [Note] |  |  |  |  |
| [Default value] | $\mathrm{n}=0$ |  |  |  |
| [Reference] | GS f, GS k |  |  |  |

GS LnL nH

| [Name] | Set left margin |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | GS | L | nL | nH |
|  | Hex | 1D | 4C | nL | nH |
|  | Decimal | 29 | 76 | nL | nH |
| [Range] | $0 \mathrm{nL255}$, 0nH255 |  |  |  |  |
| [Description] | - Set the left margin by nL and nH <br> - Set the left margin as [(nL+nH256)Horizontal moving unit)] Inch |  |  |  |  |


| [Note] | The left margin <br> area |
| :--- | :--- |
| If setting exceeds max usable printing width, then of printable area |  |
| printing width |  |

GS W nL nH


GS h n

| [Name] | Select bar code height |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | GS | h | n |
|  | Hex | 1D | 68 | n |
|  | Decimal | 29 | 104 | n |
| [Range] | 1 n 255 |  |  |  |
| [Description] | Selecting the bar codes height |  |  |  |
| [Default] | $\mathrm{n}=162$ |  |  |  |
| [Reference] | GS $\mathbf{k}$ |  |  |  |

GS k m d1...dk NULGS k m n d1...dn

| [Name] | Print bar code |  |  |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: |
| [Format] | (1) ASCII | GS | k | m | $\mathrm{d} 1 \ldots \mathrm{dk}$ | NUL |  |  |  |
|  | Hex | 1 D | 6 B | m | $\mathrm{~d} 1 \ldots \mathrm{dk}$ | 00 |  |  |  |
|  | Decimal | 29 | 107 | m | $\mathrm{~d} 1 \ldots \mathrm{dk}$ | 0 |  |  |  |
|  | (2) ASCII | GS | k | m | n | $\mathrm{d} 1 \ldots \mathrm{dn}$ |  |  |  |
|  | Hex | 1D | 6 B | m | n | $\mathrm{d} 1 \ldots \mathrm{dn}$ |  |  |  |




GS v $0 \mathrm{~m} x \mathrm{xH} \mathbf{x L} \mathbf{y H} \mathbf{d 1}$....dk



GS wn

| [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 width of barcode. Use n to designate the width |  |  |  |  |  |
|  | $n$ | Single standard mode width(mm) |  |  | Dual standard mode width |  |
|  |  |  |  |  | Narrow standard mode(mm) | Wide standard mode(mm) |
|  | 2 |  | 0.25 |  | 0.25 | 0.625 |
|  | 3 |  | 0.375 |  | 0.375 | 1.0 |
|  | 4 |  | 0.5 |  | 0.5 | 1.25 |
|  | 5 |  | 0.625 |  | 0.625 | 1.625 |
|  | 6 |  | 0.75 |  | 0.75 | 1.875 |
|  | - Single standard mode code is as followsUPC-A, UPC-E, JAN13(EAN13), JAN8(EAN8), CODE93,CODE128 <br> - Wide standard mode code is as followCODE39,ITF,CODABAR |  |  |  |  |  |
| [Default] | $\mathrm{n}=2$ |  |  |  |  |  |
| [Reference] | GS k |  |  |  |  |  |

## GS (kpL pH cn fn [parameters]

| [Name] | Set up and print symbol |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| [Description] | - Handle QR-Code data <br> - ( $\mathrm{pL}+\mathrm{pH}$ *256) determine the total account of (cn,fn and parameters) <br> - Cn assign QR-Code type ,fixed to 49. <br> - Fn assign command <br> - Parameters was assigned by different command |  |  |  |
|  | fn | format | No | Function name |
|  | 65 | $\begin{aligned} & \text { GS ( } \mathrm{k} \text { pL pH cn fn } \mathrm{n} 1 \\ & \mathrm{n} 2 \end{aligned}$ | 165 | QR-code:select mode (Invalid) |
|  | 67 | GS ( kpL pH cn fn n | 167 | QR-code: setting the qr-code size |
|  | 69 | GS (kpL pH cn fn $n$ | 169 | QR-code: select the error correction level |


|  | 80 | GS (k pL pH cn fn m <br> d1...dk | 180 | QR-code: storage the qr-code <br> data |
| :---: | :---: | :--- | :---: | :--- |
| 81 | GS ( k pL pH cn fn m | 181 | QR-code: print the qr-code <br> which has been storage. |  |
|  | 82 | GS ( k pL pH cn fn m | 182 | QR-code: Getting the information <br> of data which has been storated. |
| [Note] | The command which getting the size of saved data has been sended,there is no <br> need to resending data before getting the return values. |  |  |  |
| [Reference] |  |  |  |  |

<Function 167> GS ( k pL pH cn fn $\mathrm{n}(\mathrm{cn}=49$, $\mathrm{fn}=67$ )

| [Name] | QR Code: Set the size of module |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | GS | $($ | k | pL | pH | cn | fn | n |
|  | Hex | 1D | 28 | 6B | pL | pH | cn | fn | n |
|  | Decimal | 29 | 40 | 107 | pL | pH | cn | fn | n |
| [Range] | $\begin{aligned} & (\mathrm{pL}+(\mathrm{pH}+256))=3 \quad(\mathrm{pL}=3, \mathrm{pH}=0) \\ & \mathrm{cn}=49 \\ & \mathrm{fn}=67 \\ & 1 \mathrm{n} \quad 16 \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  |  |
| [Description] | - Setting the QR-Code size to n point |  |  |  |  |  |  |  |  |
| [Default value] | $\mathrm{n}=4$ |  |  |  |  |  |  |  |  |
| [Reference] |  |  |  |  |  |  |  |  |  |

<Function 169> GS (k pL pH cn fn $\mathbf{n}$ (cn = 49, fn = 69)

| [Name] | QR Code: Select the error correction level |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| [Format] | ASCII | GS | ( | k | pL | pH | cn | fn | n |
|  | Hex | 1D | 28 | 6B | pL | pH | cn | fn | n |
|  | Decimal | 29 | 40 | 107 | pL | pH | cn | fn | n |
| [Range] | $\begin{aligned} & (\mathrm{pL}+(\mathrm{pH}+256))=3 \quad(\mathrm{pL}=3, \mathrm{pH}=0) \\ & \mathrm{cn}=49 \\ & \mathrm{fn}=69 \\ & 48 \mathrm{n} 51 \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  |  |
| [Description] | - Selecting QR-Code Error correctionlevel |  |  |  |  |  |  |  |  |
|  | N | function |  |  |  | Proportionofareatobecovered |  |  |  |
|  | 48 | Error correctionlevel L |  |  |  | 7\% |  |  |  |
|  | 49 | Error correctionlevel M |  |  |  | 15\% |  |  |  |
|  | 50 | Error correctionlevel Q |  |  |  | 25\% |  |  |  |
|  | 51 | Error correctionlevel H |  |  |  | 30\% |  |  |  |
| [Default] | $\mathrm{n}=48$ |  |  |  |  |  |  |  |  |
| [Reference] |  |  |  |  |  |  |  |  |  |

<Function 180> GS ( k pL pH cn fn m d1dk (cn = 49, fn = 80)

| [Name] | QR Code: Store the data in the symbol storage area |  |  |  |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| [Format] | ASCII | GS | $($ | k | pL | pH | cn | fn | m | d 1 dk |
|  | Hex | 1 D | 28 | 6 B | pL | pH | cn | fn | m | d 1 dk |
|  | Decimal | 29 | 40 | 107 | pL | pH | cn | fn | m | d 1 dk |
| [Range] | 4 | $(\mathrm{pL}+\mathrm{pH}$ | $256)$ | $7092(0$ | pL | 255,0 | pH | $27)$ |  |  |


|  | $\mathrm{cn}=49$ <br> $\mathrm{fn}=80$ <br>  <br>  <br> $\mathrm{~m}=48$ <br> $0 \quad \mathrm{~d} \quad 255$ <br> $\mathrm{k}=(\mathrm{pL}+\mathrm{pH} \quad 256) \quad 3$ <br> Description $]$ <br>  <br> [Reference $]$ |
| :---: | :--- |

<Function 181> GS ( k pL pH cn $\mathrm{fn} \mathbf{m}$ (cn = 49, $\mathrm{fn}=81$ )


## - Suporte Técnico

O POS Android Tanca é fabricado com alto padrão de qualidade. Em caso de falha que venham ocorrer durante o período de garantia, solicitamos que entre em contato com a Tanca para a troca do equipamento através dos nossos telefones, da nossa plataforma de atendimento:
http://tancasuporte.mysuite2.com.br/empresas/tanc/central.php ou através do e-mail: suporte@tanca.com.br

