

常用指令

- 打印自检页

```
/**
 * printer print self-test message.
 */
- (void)selfTest;
```

- 添加指令

```
- (void)appendCommand:(NSString *)cmd;
```

- 打印纸张范围大小

```
/**
 * setting print area size in paper.
 */
- (void)setPrintAreaSizeWithWidth:(NSInteger)label_width
                                Height:(NSInteger)label_height;
```

- 设置标签纸的间距

```
/**
 * setting gap distance during labels.
 * @param distance 两张标签纸中间的垂直距离
 * @param offset 垂直间距的偏移
 */
- (void)setGapWithDistance:(NSInteger)distance
                        Offset:(NSInteger)offset;
```

- 设置黑线

```
/**
 * setting black line
 * @param height 黑线的高度 0~25.4 mm
 * @param offset 黑线偏移量 0~label length
 * height,offset 为0,0表示连续标签
 */
- (void)setBlineWithHeight:(NSInteger)height
                        Offset:(NSInteger)offset;
```

- 走纸

```
/**
 * paper feed with distance.
 */
- (void)setOffsetWithDistance:(NSInteger)distance;
```

- 打印数量

```
/**
 * setting print sets and copies.
 * @param sets 多少份 how many sets of labels will be printed.
 * @param copies 每份多少张 how many copies should be printed for each
 particular label set.
 */
- (void)printWithSets:(NSInteger)sets Copies:(NSInteger)copies;
```

- 打印文本1

```
/**
 * @param x_pos x 坐标
 * @param y_pos y 坐标
 * @param fontSize 字体大小 (16 20 24 28 32 40 48 56)
 * @param rotation (0 1 2 3)
 * @param text 要打印的文本
 */
- (void)appendTextWithXPos:(NSInteger)x_pos
                    YPos:(NSInteger)y_pos
                    FontSize:(NSInteger)fontSize
                    Rotation:(NSInteger)rotation
                    Text:(NSString *)text;
```

- 打印文本2

打印文本

@param x_pos 距离x起点坐标

@param y_pos 距离y起点坐标

@param font 字体大小 英文字体: 0-8 中文: 9

0: Monoty CG Triumvrate Bold Condensed,font width and height is stretchable

1: 8 x 12 fixed pitch dot font

2: 12 x 20 fixed pitch dot font

3: 16 x 24 fixed pitch dot font

4: 24 x 32 fixed pitch dot font

5: 32 x 48 fixed pitch dot font
6: 14 x 19 fixed pitch dot font
7: 21 x 27 fixed pitch dot font
8: 14 x 25 fixed pitch dot font
9: 只有这个字体能打印中文

@param rotation 0 90 180 270

@param x_multiplication 英文字体: 1-10 中文: 40-80(大小可调)

@param y_multiplication 英文字体: 1-10 中文: 40-80(大小可调)

@param text 打印的文本

```
- (void)appendTextWithXpos:(NSInteger)x_pos
    Ypos:(NSInteger)y_pos
    Font:(NSInteger)font
    Rotation:(NSInteger)rotation
    Xmultiplication:(NSInteger)x_multiplication
    Ymultiplication:(NSInteger)y_multiplication
    Text:(NSString *)text;
```

- 清除打印机缓冲区

```
/**
 * clean printer buffer.
 */
- (void)setCLS;
```

- 打印一维条码

```
/**
 * print barcode.
 * @param type 条码类型
 * @param readable 是否可读: 0, 不可读, 1, 可读
 * @param rotation 旋转: 0, 90, 180, 270
 * @param narrow 窄元素
 * @param wide 宽元素
 */
- (void)printBarcodeWithXPos:(NSInteger)x_pos
    YPos:(NSInteger)y_pos
    Type:(NSString *)type
    Height:(NSInteger)height
    HumanReadable:(NSInteger)readable
    Rotation:(NSInteger)rotation
    Narrow:(NSInteger)narrow
    Wide:(NSInteger)wide
    CodeNumber:(NSString *)codeNumber;
```

- 打印二维条码

```
/**
 * print QRCode
 */
- (void)printQRcodeWithXPos:(NSInteger)x_pos
    YPos:(NSInteger)y_pos
    EccLevel:(NSString *)ecc_level
    CellWidth:(NSInteger)width
    Mode:(NSString *)mode
    Rotation:(NSInteger)rotation
    Model:(NSString *)model
    Mask:(NSString *)mask
    Text:(NSString *)text;
```

- 打印位图

```
/**
 * print Bitmap
 * @param imageData Bitmap data
 * @param mode 位图模式: (0:OVERWRITE 1:OR 2:XOR)
 */
- (void)addBitmapWithXPos:(NSInteger)xpos
    YPos:(NSInteger)ypos
    width:(NSInteger)width
    height:(NSInteger)height
    Mode:(NSInteger)mode
    imageData:(NSData *)imageData;
```

BasicSetting 基本设定

- 设置打印速度

```
/**
 * setting print speed
 */
- (void)setSpeed:(NSInteger)speed;
```

- 设置打印浓度

```
/**
 * setting print density
 * @param density 浓度 0~15 level
 */
- (void)setDensity:(NSInteger)density;
```

- 设置打印的方向和镜像

```
/**
 * setting print direction and mirror.
 * @param direction 方向, 面对打印机, 向自己方向出纸, 0, 左上角, 1, 右下角
 * @param mirror 镜像, 可选项 0 普通, 1 镜像
 */
- (void)setDirection:(NSInteger)direction Mirror:(NSInteger)mirror;
```

- 设置标签参考起点

```
/**
 * setting print reference position
 */
- (void)setReferenceXPos:(NSInteger)x_pos
      YPos:(NSInteger)y_pos;
```

- 设置国际字符集

```
/**
 * setting the code page of international character set.
 7-bit code page name:
 USA: USA
 BRI: British
 GER: German
 FRE: French
 DAN: Danish
 ITA: Italian
 SPA: Spanish
 SWE: Swedish
 SWI: Swiss
 8-bit code page number:
 437: United States
 850: Multilingual
 852: Slavic
 860: Portuguese
 863: Canadian/French
 865: Nordic
 857: Turkish (TSPL2 printers only)
```

```
Windows code page:
1250: Central Europe (TSPL2 printers only)
1252: Latin I (TSPL2 printers only)
1253: Greek (TSPL2 printers only)
1254: Turkish (TSPL2 printers only)
* @param codepage 字符集代码
*/
- (void)setCodePage:(NSString *)codepage;
```

- 设置标签进纸长度

```
/**
 * feed label with the specified length.
 * @param feedLength (1~9999)
 */
- (void)setFeedLength:(NSInteger)feedLength;
```

- 设置进纸到下一标签起始处

```
/**
 * feed label to the beginning of next label.
 */
- (void)setFormFeed;
```

- 回纸

```
- (void)setBackFeed:(NSInteger)distance;
- (void)setBackUP:(NSInteger)distance;
```

- 设置标签定位到内部传感器确定的起点

```
/**
 * feed label until the internal sensor has determined the origin.
 */
- (void)setHome;
```

- 设置蜂鸣

```
/**
 * control the sound frequency of the beeper.
 * @param level 0-9
 * @param interval 1-4095
 */
- (void)setSoundWithLevel:(NSInteger)level
                    Interval:(NSInteger)interval;
```

- 设置切纸

```
/**
 * activate the cutter to immediately cut the labels without back feeding the
 label.
 */
- (void)setCut;
```

- 设置停止送纸

```
- (void)setLimitFeed:(NSInteger)max_len;
```

- 在标签上画一条线

```
/**
 * draw a bar on the label format.
 */
- (void)printBarWithXPos:(NSInteger)x_pos
                    YPos:(NSInteger)y_pos
                    Width:(NSInteger)width
                    Height:(NSInteger)height;
```

- 在标签上绘制矩形

```
/**
 * draw rectangles on the label.
 * @param thickness 线宽
 */
- (void)setBoxWithXStart:(NSInteger)x_start
                    YStart:(NSInteger)y_start
                    XEnd:(NSInteger)x_end
                    YEnd:(NSInteger)y_end
                    Thickness:(NSInteger)thickness;
```

- 在标签上绘制圆形

```

/**
 * draw a circle on the label.
 *
 * @param diameter 直径
 * @param thickness 线宽
 */
- (void)setCircleWithXStart:(NSInteger)x_start
                    YStart:(NSInteger)y_start
                    Diameter:(NSInteger)diameter
                    Thickness:(NSInteger)thickness;

```

- 擦除图像缓冲区指定的区域

```

/**
 * clear a specified region in the image buffer.
 */
- (void)setEraseWithXStart:(NSInteger)x_start
                    YStart:(NSInteger)y_start
                    XWidth:(NSInteger)x_width
                    YHeight:(NSInteger)y_height;

```

- 设置 DataMatrix 二维码，当前仅支持 ECC200 错误纠正

```

/**
 * define the DataMatrix 2D bar code. Currently, only ECC200 error correction is
 supported.
 *
 * @param xm [可选], Module size, x6, x8
 * @param row [可选], 范围: 10-144
 * @param col [可选], 范围: 10-144
 * @param expression 表达式
 */
- (void)setDmatrixWithExpression:(NSString *)expression
                    XPos:(NSInteger)x_pos
                    YPos:(NSInteger)y_pos
                    Width:(NSInteger)width
                    Height:(NSInteger)height
                    XM:(NSString *)xm
                    Row:(NSString *)row
                    Col:(NSString *)col;

```

- 打印 Maxicode 二维码

```

/**
 * define a 2D Maxicode.

```

```

* @param mode      2,3,4,5
* @param iClass   [option],Class of Service ,3-digit number(for mode 2,3)
* @param country  [option],Country code, 3-digit number (for mode 2,3)
* @param post     [option],

```

Mode 2: (USA) 5-digit+ 4-digit number.

Mode 3: (Canada) 6 alphanumeric post code included by double quotes.

```

* @param lm       Expression length (double quote is ignored) , 范围: 1-138, (this
parameter is just for mode 4 and 5.)
*/

```

```

- (void)setMaxicode:(NSString *)text
      XPos:(NSInteger)x_pos
      YPos:(NSInteger)y_pos
      Mode:(NSInteger)mode
      Class:(NSInteger)iClass
      Country:(NSInteger)country
      Post:(NSString *)post
      LM:(NSInteger)lm;

```

- PDF417 2D barcode

```

/**
 * define a PDF417 2D barcode.

[Option]

P Data compression method
0: Auto encoding
1: Binary mode
E Error correction level. Range: 0~8 Center pattern in barcode area
0: The pattern will print upper left justified the area
1: The pattern is printed middle of area

Ux,y,c Human readable
x: Human readable characters in the specified x-coordinate
y: Human readable characters in the specified y-coordinate
c: Maximum characters of human readable character per line

W Module width in dot. Range: 2~9
H Bar height in dot. Range: 4~99
R Maximum number of rows
C Maximum number of columns
T Truncation.
0: Not truncated
1: Truncated

```

```

* @param option 可选项
*/
- (void)printPDF417WithXPos:(NSInteger)x_pos
    YPos:(NSInteger)y_pos
    Width:(NSInteger)width
    Height:(NSInteger)height
    Rotate:(NSInteger)rotate
    Option:(NSString *)option
    Expression:(NSString *)expression;

```

- 打印 Aztec 条码

```

- (void)printAztecWithXPos:(NSInteger)XPos
    YPos:(NSInteger)YPos
    rotate:(NSInteger)rotate
    size:(NSInteger)size
    ecp:(NSInteger)ecp
    flg:(NSInteger)flg
    menu:(NSInteger)menu
    multi:(NSInteger)multi
    rev:(NSInteger)rev
    aztecData:(NSString *)aztecData;

```

- 打印图片

```

/**
 * print Bitmap format image.
 */
- (void)putBMPWithFilename:(NSString *)filename
    XPos:(NSInteger)x_pos
    YPos:(NSInteger)y_pos;

```

- 打印 PCX 格式图片

```

/**
 * print PCX format images.
 */
- (void)putPCXWithFilename:(NSString *)filename
    XPos:(NSInteger)x_pos
    YPos:(NSInteger)y_pos;

```

- 设置反白

```

/**
 * reverse a region in image buffer.
 */
- (void)setReverseWithXStart:(NSInteger)x_start
                YStart:(NSInteger)y_start
                XWidth:(NSInteger)x_width
                YHeight:(NSInteger)y_height;

```

- 获取状态

```
- (void)getStatus;
```

pragma mark Device Reconfiguration Commands

- 计数器设置

```

/**
 * setting the counter number in the program and its increments.
 * @param counterNumber 第几个计数器 (0-50)
 * @param step          计数间隔 (-99999999 ~ 99999999)
 */
- (void)setCounterWithCounterNumber:(NSInteger)counterNumber
                Step:(NSInteger)step;

```

- 设置切纸

```

- (void)setCutterON;
- (void)setCutterOFF;
- (void)setCutterBATCH;

```

- 设置切纸

```

/**
 * set number of printing labels per cut
 *
 * @param pieces (0 ~ 65535)
 */
- (void)setCutterPieces:(NSInteger)pieces;

```

- 设置切纸

```

- (void)setPARTIAL_CUTTER_OFF;
- (void)setPARTIAL_CUTTER_BATCH;

```

- 设置切纸

```
/**
 * set number of printing labels per cut
 *
 * @param pieces (0 ~ 65535)
 */
- (void)setPARTIAL_CUTTER_Pieces:(NSInteger)pieces;
```

- 设置回退

```
- (void)setBackOFF;
- (void)setBackON;
```

- 设置 LED

```
/**
 * This setting is used to enable/disable the LED function.
 *
 * LED1 Power on/off
 * LED2 Printer on-line/off-line
 * LED3 Error/normal
 *
 * @param index LED1,LED2,LED3
 * @param switcher ON/OFF
 */
- (void)setLED:(NSInteger)index Switch:(NSString *)switcher;
```

- Peel

```
- (void)setPeelON;
- (void)setPeelOFF;
```

- Tear

```
/**
 * This command is used to enable/disable feeding of labels to gap/black mark
 * position for tearing off.
 * This setting will be saved in printer memory when turning off the power.
 */
- (void)setTearON;
- (void)setTearOFF;
```

- Striper

```
- (void)setStriperON;
- (void)setStriperOFF;
```

- Head

```
/**
 * This setting is used to enable/disable head open sensor.
 */

- (void)setHeadON;
- (void)setHeadOFF;
```

- Ribbon

```
- (void)setRibbonON;
- (void)setRibbonOFF;
```

- 设置 COM 口

```
/**
 * This setting defines communication parameters for printer serial port.
 *
 * @param baud 24,48,96,19,38,57,115( 对应单位2400 bps,4800 bps,9600 bps,38400
bps,15200 bps)
 * @param parity N,E,O(NO/Even/Odd parity check)
 * @param data 7,8(bits Data)
 * @param stop 1,2(stop bit)
 */

- (void)setCOM1WithBaud:(NSInteger)baud
                    Parity:(NSString *)parity
                    Data:(NSString *)data
                    Stop:(NSString *)stop;
```

- 设置Print Key

```
/**
 * This command will print one label and feed label gap to tear br position for
tearing away.
 * This setting will be saved in printer memory.
 *
 * @param key OFF/ON/AUTO/<num>
 */

- (void)setPrintKey:(NSString *)key;
```

- Reprint

- (void)setReprintON;
- (void)setReprintOFF;