

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

```
/**
 * @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;
```

- 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;