Android ZPL Program Manual

v2.2.0

1. Instruction

This manual describes how to print labels with ZPL instructions.Constant variable are defined in ZPLConst class.

2. ZPLPrinter

2.1.   ZPLPrinter

Constructor to create print objects.
ZPLPrinter(IDeviceConnection connection)

[Parameter]
➤   connection
Connected object, available via POSConnect.createDevice(deviceType).

2.2.   addStart

This method is used at the beginning of the label
ZPLPrinter addStart()

[Return]
ZPLPrinter Instance

2.3.   addEnd

End of label format. After calling this method, the label is printed.
ZPLPrinter addEnd()

[Return]
ZPLPrinter Instance

2.4.   addText

text printing
ZPLPrinter addText(int x, int y, String fontName, String rotation, int sizeW, int sizeH, String

content)

ZPLPrinter addText(int x, int y, char fontName, int sizeW, int sizeH, String content)

ZPLPrinter addText(int x, int y, char fontName, String content)

ZPLPrinter addText(int x, int y, String content)

[Parameter]

➢ x

the starting x value of the text

➢ y

the starting y value of the text

➢ font

The font type of the text, the default is FNT_F.

Variable	Description
FNT_A	9 x 5
FNT_B	11x7
FNT_C、FNT_D	18x10
FNT_E	28x15
FNT_F	26x13
FNT_G	60x40
FNT_0	15*12

For other fonts, please use custom names.

➢ sizeW

The effective width of the text, the default is the base size. Please use an integer multiple of the base size.

➢ sizeH

The effective height of the text. Default is base size. Please use an integer multiple of the base size.

➢ rotation

Clockwise rotation angle, default ROTATION_0

Variable	Description
ROTATION_0	No rotation
ROTATION_90	Rotate 90 degrees clockwise
ROTATION_180	Rotate 180 degrees clockwise
ROTATION_270	Rotate 270 degrees clockwise

➢ content

text content

[Return]

ZPLPrinter Instance

2.5.　setCustomFont

Set custom font. After the machine is powered off, the settings will be invalid.
ZPLPrinter setCustomFont(String font, char alias, int codePage)

[Parameter]
➢　font
Font name and suffix of font library, for example: LZHONGHEI.TTF
➢　alias
Font alias, corresponding to fontName in addText. Range: A to Z and 0 to 9.
➢　codePage
Character Encoding

Variable	Description
CODE_PAGE_UTF8	Unicode (UTF-8 encoding) - Unicode Character Set
CODE_PAGE_UTF16	Unicode (UTF-16 Big-Endian encoding) - Unicode Character Set
CODE_PAGE_UTF16_2	Unicode (UTF-16 Little-Endian encoding) - Unicode Character Set
CODE_PAGE_USA1	Single Byte Encoding - U.S.A. 1 Character Set
CODE_PAGE_USA2	Single Byte Encoding - U.S.A. 2 Character Set
CODE_PAGE_UK	Single Byte Encoding - U.K. Character Set
CODE_PAGE_NL	Single Byte Encoding - Holland Character Set
CODE_PAGE_DK	Single Byte Encoding - Denmark/Norway Character Set
CODE_PAGE_SWEDE	Single Byte Encoding - Sweden/Finland Character Set
CODE_PAGE_GER	Single Byte Encoding - Germany Character Set
CODE_PAGE_FR1	Single Byte Encoding - France 1 Character Set
CODE_PAGE_FR2	Single Byte Encoding - France 2 Character Set
CODE_PAGE_ITA	Single Byte Encoding - Italy Character Set
CODE_PAGE_ES	Single Byte Encoding - Spain Character Set
CODE_PAGE_JA	Single Byte Encoding - Japan (ASCII with Yen symbol) Character Set

[Return]
ZPLPrinter Instance

2.6.　setPrinterWidth

Set Print Width
ZPLPrinter setPrinterWidth(int width)

[Parameter]
➢　width
label width (in dots)

[Return]
ZPLPrinter Instance

2.7.　addReverse

Area Reverse
ZPLPrinter addReverse(int x, int y, int width, int height)
ZPLPrinter addReverse(int x, int y, int width, int height, int radius)

[Parameter]
➢　x
Start x value of the area
➢　y
Start y value of the area
➢　width
Area width
➢　height
Area height
➢　radius
degree of cornerrounding.Range: 0(no rounding) to 8 (heaviest rounding). Default is 0.

[Return]
ZPLPrinter Instance

2.8.　addBox

The method is used to draw boxes and lines as part of a label format.
ZPLPrinter addBox(int x, int y, int width, int height, int thickness)
ZPLPrinter addBox(int x, int y, int width, int height, int thickness, int radius)

[Parameter]
➢　x
Start x value of the box
➢　y
Start y value of the box
➢　width
 box width (in dots)
➢　height
box height (in dots)
➢　thickness

border thickness (in dots)

➢ radius

degree of cornerrounding, Range: 0(no rounding) to 8 (heaviest rounding), Default is 0.

[Return]

ZPLPrinter Instance

2.9. addBarcode

This method prints 1D barcodes.

ZPLPrinter addBarcode(int x, int y, String codeType, String ratio, byte textPosition, String data, int width, int height)

ZPLPrinter addBarcode(int x, int y, String codeType, String data, int height)

ZPLPrinter addBarcode(int x, int y, String codeType, String data)

[Parameter]

➢ x

Start x value of the barcode

➢ y

Start y value of the barcode

➢ codeType

Code type

Variable	Description
BCS_CODE11	Code 11 barcode
BCS_INTERLEAVED2OF5	Interleaved 2 of 5 Bar Code
BCS_CODE39	Code 39 Barcode
BCS_EAN8	EAN-8 Barcode
BCS_UPCE	UPC-E Barcode
BCS_CODE93	Code 93 Barcode
BCS_CODE128	Code 128 Barcode
BCS_EAN13	EAN-13 Barcode
BCS_CODABAR	ANSI Codabar Bar Code
BCS_MSI	MSI Bar Code
BCS_PLESSEY	Plessey Bar Code
BCS_UPC_EAN	UPC/EAN Extensions
BCS_UPCA	UPC-A Bar Code

➢ ratio

Barcode direction,Default is ROTATION_0

➢ textPosition

Interpretation line position, Default is HRI_TEXT_BELOW.

Variable	Description

HRI_TEXT_NONE	No Interpretation
HRI_TEXT_ABOVE	print interpretation line above code
HRI_TEXT_BELOW	print interpretation line below code

➢ data

Barcode content

➢ width

module width (in dots),Default is 2.

➢ height

  bar code height (in dots), Default is 50.

[Return]

ZPLPrinter Instance

2.10. addQRCode

Add 2D barcode

ZPLPrinter addQRCode(int x, int y, String data)

ZPLPrinter addQRCode(int x, int y, int size, String data)

[Parameter]

➢ x

Start x value of the qrcode

➢ y

Start y value of the qrcode

➢ data

QRCode content

➢ size

  magnification factor. Values:1 to 10, default is 3.

[Return]

ZPLPrinter Instance

2.11. downloadBitmap

The method downloads a graphic image.

ZPLPrinter downloadBitmap(int width, String bmpName, Bitmap bmp)

[Parameter]

➢ width

image width

➢ bmpName

image name and extension, The number or character whose name is 1 to 8.
➢ bmp
Bitmap object

[Return]
ZPLPrinter Instance

2.12. addBitmap

print bitmap
ZPLPrinter addBitmap(int x, int y, String bmpName, int mx, int my)
ZPLPrinter addBitmap(int x, int y, String bmpName)

[Parameter]
➢ x
Start x value of the bitmap
➢ y
Start y value of the bitmap
➢ bmpName
Bitmap name and extension name
➢ mx
magnification factor on the x-axis,The default value is 1, and the range is 1~10.
➢ my
magnification factor on the y-axis,The default value is 1, and the range is 1~10.

[Return]
ZPLPrinter Instance

2.13. addPrintCount

The method controls the number of labels to print
ZPLPrinter addPrintCount(int count)

[Parameter]
➢ count
total quantity of labels to print

[Return]
ZPLPrinter Instance

2.14. isConnect

Query connection status
void isConnect(IStatusCallback callback)

[Parameter]
➢   callback
Status callback.
public interface IStatusCallback {
        void receive(int status);
}

status	Description
STS_CONNECT	connect
STS_DISCONNECT	disconnect

2.15. setCharSet

Set character encoding,Default is "UTF-8"
void setCharSet(String charSet)

[Parameter]
➢   charSet
Character set name.

2.16. sendData

This function is used to send data to the printer.
ZPLPrinter sendData(byte[] data);
ZPLPrinter sendData(List<byte[]> datas);

[Parameter]
➢   data
Byte array to be sent
➢   datas
Byte array collection to be sent

[Return]
ZPLPrinter Instance