

Windows ADK Manual

LK-Txx and LK-Txxx and TL, TE

Receipt Printer

1. Method

This is function for DLL(Module)

1.1. long OpenPort(
LPCTSTR szPortName,
long BaudRate
);

This function will be applied to open Port.

[Parameters]

szPortName :

[in] transmits the Name of the Port

BaudRate :

[in] transmits the information of the Port.

please refer to the sample programs.

[Return Values]

LK_SUCCESS : returns after the function success

LK_CREATE_ERROR : failure to create communication target

LK_UNKNOWN_PRINTER : returns when unknown printer has been connected.

1.2. long ClosePort()

This function will be applied to close the Port.

[Parameters]

None.

[Return Values]

LK_SUCCESS : returns after function success

LK_NOT_OPENED : the communication port is closed

1.3. long PrintBitmap(

LPCTSTR BitmapName,

long Alignment,

long Options,

long Brightness,

long ImageMode

);

The function is used to print with bitmap file.

[Parameters]

BitmapName:

[in] This value is a bitmap filename.

It sets the path of the bitmap file for printing.

Alignment:

[in] This value is alignment. It sets image alignment.

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

Options:

[in] This value is image option. It sets the value for option of image.

Variable	Description
LK_BITMAP_NORMAL	Original : printing of Image.
LK_BITMAP_WIDTH_DOUBLE	width magnification two times.
LK_BITMAP_HEIGHT_DOUBLE	height magnification two times.
LK_BITMAP_WIDTH_HEIGHT_DOUBLE	width and height magnification two times.

Brightness:

[in] This value is brightness of image.

It sets the value for brightness of printing image

[Range] : 0 ~ 10

ImageMode :

[in] This value is HalfTone Method.

It sets the value for HalfTone of printing image

Variable	Description
LK_BITMAP_NO_DITHER	Process image as B/W Level
LK_BITMAP_ERROR_DIFFUSION	Process image as Error Diffusion Level
LK_BITMAP_ORDERED_DITHER	Process image as Ordered Dither Level

[Return Values]

LK_SUCCESS : returns after function success.

```
1.4. long PrintText(
        LPCTSTR Data,
        long Alignment,
        long Options,
        long TextSize
    );
```

The function is used to print text font.

[Parameters]

Data:

[in] This value is alignment. It sets the value for text printing

Alignment:

[in] This value is alignment. It sets text alignment.

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

Options:

[in] This value is text options. It sets the value for Options of text printing.

Variable	Description
----------	-------------

LK_FNT_DEFAULT	FontA, Set up as a standard
LK_FNT_FONTB	Set up as FontB
LK_FNT_BOLD	Set up as Bold attribute
LK_FNT_UNDERLINE	Set up as Underline attribute

TextSize:

[in] This value is size of text. It sets the value for the size of text

Variable (Set up width ratio)	Description
LK_TXT_1WIDTH	Set up width ratio as x1
LK_TXT_2WIDTH	Set up width ratio as x2
LK_TXT_3WIDTH	Set up width ratio as x3
LK_TXT_4WIDTH	Set up width ratio as x4
LK_TXT_5WIDTH	Set up width ratio as x5
LK_TXT_6WIDTH	Set up width ratio as x6
LK_TXT_7WIDTH	Set up width ratio as x7
LK_TXT_8WIDTH	Set up width ratio as x8
Variable (Set up height ratio)	Description
LK_TXT_1HEIGHT	Set up height ratio as x1
LK_TXT_2HEIGHT	Set up height ratio as x2
LK_TXT_3HEIGHT	Set up height ratio as x3
LK_TXT_4HEIGHT	Set up height ratio as x4
LK_TXT_5HEIGHT	Set up height ratio as x5
LK_TXT_6HEIGHT	Set up height ratio as x6
LK_TXT_7HEIGHT	Set up height ratio as x7
LK_TXT_8HEIGHT	Set up height ratio as x8

[Return Values]

LK_SUCCESS : returns after function success

1.5. long PrintString(
LPCTSTR Data
);

The function is used to print text without any transformation.

[Parameters]

Data:

[in] This value is NULL-terminated Unicode string.

It sets text the string for text printing.

[Return Values]

LK_SUCCESS : returns after function success.

1.6. long PrintNormal(

LPCTSTR Data

);

This function is to use the function which is provided by OLE POS Specification.
For command list, please refer to the Page-26 ~ Page-27.

[Parameters]

Data:

[in] This value is text data. It sets the data for text printing.

[Return Values]

LK_SUCCESS : returns after function success.

1.7. long PrintBarCode(
LPCTSTR Data,
long Symbology,
long Height,
long Width,
long Alignment,
long TextPosition
);

This is function to print barcode.

[Parameters]

Data:

[in] This value is barcode data. It sets the data for the barcode data

Symbology:

[in] This value is type of barcode. It sets the value for the type of barcode

Variable	Description
LK_BCS_UPCA	Print UPC A BarCode
LK_BCS_UPCE	Print UPC E BarCode
LK_BCS_EAN8	Print EAN-8 BarCode
LK_BCS_EAN13	Print EAN-13 BarCode
LK_BCS_JAN8	Print JAN-8 BarCode
LK_BCS_JAN13	Print JAN-13 BarCode
LK_BCS_ITF	Print Interleaved 2 of 5
LK_BCS_Codabar	Print Codabar BarCode
LK_BCS_Code39	Print Code 3 of 9 BarCode
LK_BCS_Code93	Print Code 93 BarCode
LK_BCS_Code128	Print Code 128 BarCode

LK_BCS_3OF5	Print 3 out of 5(KorMail) BarCode
-------------	-----------------------------------

Height:

[in] This value is barcode height.

It sets the value for barcode height (Default : Dot)

Width:

[in] This value is barcode width.

It sets the value for barcode width (Default : Dot)

Alignment:

[in] This value is barcode alignment. It sets the value for barcode alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

TextPosition :

[in] This value is printing position of HRI.

It sets the printing position of Human Readable font for barcode HRI.

Variable	Description
LK_HRI_TEXT_NONE	Do not print barcode data
LK_HRI_TEXT_ABOVE	Print barcode data above the barcode
LK_HRI_TEXT_BELOW	Print barcode data below the barcode

[Return Values]

LK_SUCCESS : returns after function success

1.8. long PrinterSts()

The function is used to read the printer status value.

[Parameters]

None.

[Return Values]

Variable	Description
LK_STS_NORMAL	Success
LK_STS_COVEROPEN	Cover Open ERROR
LK_STS_PAPEREMPTY	Paper Empty ERROR
LK_STS_POWEROFF	Power OFF ERROR
LK_STS_PAPERNEAREMPTY	Paper Near Empty Warning

1.9. long CutPaper()

Cut Paper Method.

[Parameters]

None.

[Return Values]

LK_SUCCESS : returns after function success

1.10. long OpenDrawer(

long DrawerPinNum,

long PulseOnTime,

long PulseOffTime,

)

Cash Drawer Open Method.

[Parameters]

DrawerPinNum:

[in] This value is Drawer Pin Connector number.

It sets the value for Drawer Pin Connector.

Variable	Description
LK_CD_PIN_TWO	Drawer kick-out connector pin 2.
LK_CD_PIN_FIVE	Drawer kick-out connector pin 5.

PulseOnTime:

[in] Pulse High Time. (Default : milliseconds)

PulseOffTime:

[in] Pulse Low Time.(Default : milliseconds)

[Return Values]

LK_SUCCESS : returns after function success

1.11. long DrawerSts()

the function is used to read the status value for cash Drawer

[Parameters]

None

[Return Values]

LK_SUCCESS : returns after function success (Cash Drawer Close Status)

LK_CASHDRAWER_OPEN : Cash Drawer Open Status.

1.12. long PrintData(

```

        unsigned char * Data,
        int          Size;
    );

```

The function is used to print control command include NULL-character.

[Parameters]

Data:

[in] This value is text data with NULL character.

It sets the control command for text printing.

Size:

[in] This value is size of data.

It sets the size of data to print control command.

[Return Values]

LK_SUCCESS : returns after function success.

```

1.13. long PrintText2Image (
        LPCTSTR FontName,
        long FontStyle,
        long FontDotSize,
        LPCTSTR TextData,
        long ReversePrint
    )

```

This function is used to supporting True-Type font printing.

[Parameters]

FontName:

[in] It sets the True-Type Font name.

FontStyle:

[in] It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

FontDotSize:

[in] It sets the True-Type Font size.(Dot Size).

TextData:

[in] Pointer to a null-terminated Unicode string. It sets Unicode text to print.

ReversePrint:

[in] It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

[Return Values]

LK_SUCCESS : returns after function success..

1.14. long PrintText2ImageAlignment (

LPCTSTR FontName,

long FontStyle,

long FontDotSize,

LPCTSTR TextData,

long ReversePrint,

long Alignment

)

This function is used to supporting True-Type font printing with alignment.

[Parameters]

FontName:

[in] It sets the True-Type Font name.

FontStyle:

[in] It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

FontDotSize:

[in] It sets the True-Type Font size.(Dot Size).

TextData:

[in] Pointer to a null-terminated Unicode string. It sets Unicode text to print.

ReversePrint:

[in] It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

Alignment:

[in] This value is TTF printing alignment.

It sets the value for TTF printing alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

[Return Values]

LK_SUCCESS : returns after function success..

1.15. long OutputCompletePrinting (
 long TimeDelay,
)

The function is used to check printing result.

[Parameters]

TimeDelay:

[in] Wait time to receive the printing result. (Default : milliseconds)

[Return Values]

Variable	Description
LK_STS_NORMAL	Success
LK_STS_COVEROPEN	Cover Open ERROR
LK_STS_PAPEREMPTY	Paper Empty ERROR
LK_STS_POWEROFF	Power OFF ERROR

1.16. long PrintQRCode (
 unsigned char * Data,
 long Size,
 long ModuleSize,
 long ECLevel,
 long Alignment
)

The function is used to print QRCode using command.

[Parameters]

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Alignment:

[in] This value is QRCode alignment.

It sets the value for QRCode alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

[Return Values]

LK_SUCCESS : returns after function success..

1.17. long MakeQRCodeBitmap (
 unsigned char * Data,
 long Size,
 long ModuleSize,
 long ECLevel,

```

    long Version,
    long MaskPattern,
    LPCTSTR BitmapName
)

```

The function is used to save QRCode using QR Generator.

[Parameters]

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
...	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
...	
LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

Alignment:

[in] This value is QRCode alignment.

It sets the value for QRCode alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

BitmapName:

[in] This value is bitmap filename to save.

It sets the path of bitmap filename to save QRCode image.

[Return Values]

LK_SUCCESS : returns after function success..

1.18. long PrintQRCodeGenerator (

unsigned char * Data,

long Size,

long ModuleSize,

long ECLevel,

long Version,

long MaskPattern,

)

The function is used to print QRCode using QR Generator.

[Parameters]

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
...	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
...	
LK_QRCODE_MASK_6	Mask Pattern 6

LK_QRCODE_MASK_7	Mask Pattern 7
------------------	----------------

[Return Values]

LK_SUCCESS : returns after function success..

```
1.19. long PrintQRCodeFromFile (
        LPCTSTR File4QR,
        long ModuleSize,
        long ECLevel,
        long Version,
        long MaskPattern,
        long Alignment
    )
```

The function is used to print QRCode from file using QR Generator.

[Parameters]

File4QR:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
----------	-------------

LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
...	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
...	
LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

Alignment:

[in] transmits the value for QRCode alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

[Return Values]

LK_SUCCESS : returns after function success..

```
1.20. long PrintPDF417 (
        LPCTSTR PdfData,
        long DataLength,
        long NumberOfColumns,
        long CellWidth,
        long Alignment
    )
```

The function is used to print PDF417 using command.

[Parameters]

PdfData:

[in] This value is the data for PDF417 with NULL character.

It sets the data for PDF417 printing.

DataLength:

[in] This value is size of data.

It sets the size of data to print PDF417.

NumberOfColumns:

[in] This value is Column counter.

It sets the size of Column to print PDF417.

[Range] : 3 ~ 13

CellWidth:

[in] This value is size of CellWidth.

It sets the size of Cell to print PDF417.

[Range] : 2 ~ 5

Cell width = 2	Number of columns (3 ~ 13)
Cell width = 3	Number of columns (3 ~ 8)
Cell width = 4	Number of columns (3 ~ 5)
Cell width = 5	Number of columns (3)

Alignment:

[in] This value is PDF417alignment.

It sets the value for PDF417alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

[Return Values]

LK_SUCCESS : returns after function success..

1.21. long SetMasterUnit (long UnitMeasure)

The function is used to setup the unit measure.

[Parameters]

UnitMeasurea:

[in] This value is the data for Unit of length.

Variable	Description
0	Dot
1	Millimeter
2	Centimeter

3	Inch
---	------

[Return Values]

LK_SUCCESS : returns after function success..

1.22. long PrintingWidth (long pwidth)

The function is used to setup the width of printing.

[Parameters]

pwidth:

[in] This value is the width of printing.

[Return Values]

LK_SUCCESS : returns after function success..

1.23. long SetLabelSize (long widthsize, long heightsize)

The function is used to setup the printing area.

[Parameters]

widthsize:

[in] This value is the width size of printing area.

heightsize:

[in] This value is the height size of printing area.

[Return Values]

LK_SUCCESS : returns after function success..

1.24. long PrintLabel ()

The function is used to print the buffer in printing aread.

[Parameters]

None

[Return Values]

LK_SUCCESS : returns after function success..

1.25. long PrintTTFXY (

```

    long BaseUnitX,
    long BaseUnitY,
    LPCTSTR FontName,
    long FontStyle,
    long FontDotSize,
    LPCTSTR TextData,
    long ReversePrint
)

```

This function is used to supporting True-Type font printing.

[Parameters]

BaseUnitX:

[in] It sets the x-coordinates for printing the True-Type Font.

BaseUnitY:

[in] It sets the y-coordinates for printing the True-Type Font.

FontName:

[in] It sets the True-Type Font name.

FontStyle:

[in] It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

FontDotSize:

[in] It sets the True-Type Font size.(Dot Size).

TextData:

[in] Pointer to a null-terminated Unicode string. It sets Unicode text to print.

ReversePrint:

[in] It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

[Return Values]

LK_SUCCESS : returns after function success..

```

1.26. long PrintTTFAlign (
    long Alignment,
    long BaseUnitY,
    LPCTSTR FontName,
    long FontStyle,
    long FontDotSize,
    LPCTSTR TextData,
    long ReversePrint
)

```

This function is used to supporting True-Type font printing according to alignment.

[Parameters]

Alignment:

[in] It sets justification for printing the True-Type Font.

BaseUnitY:

[in] It sets the y-coordinates for printing the True-Type Font.

FontName:

[in] It sets the True-Type Font name.

FontStyle:

[in] It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

FontDotSize:

[in] It sets the True-Type Font size.(Dot Size).

TextData:

[in] Pointer to a null-terminated Unicode string. It sets Unicode text to print.

ReversePrint:

[in] It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

[Return Values]

LK_SUCCESS : returns after function success..

```
1.27. long PrintBitmapXY (  
        long BaseUnitX,  
        long BaseUnitY,  
        LPCTSTR BitmapName  
);
```

The function is used to print with bitmap file.

[Parameters]

BaseUnitX:

[in] It sets the x-coordinates for printing the bitmap image.

BaseUnitY:

[in] It sets the y-coordinates for printing the bitmap image.

BitmapName:

[in] This value is a bitmap filename.

It sets the path of the bitmap file for printing.

[Return Values]

LK_SUCCESS : returns after function success.

```
1.28. long PrintBitmapAlign (  
        long Alignment,  
        long BaseUnitY,  
        LPCTSTR BitmapName  
);
```

The function is used to print with bitmap file.

[Parameters]

Alignment:

[in] It sets justification for printing the bitmap image.

BaseUnitY:

[in] It sets the y-coordinates for printing the bitmap image.

BitmapName:

[in] This value is a bitmap filename.

It sets the path of the bitmap file for printing.

[Return Values]

LK_SUCCESS : returns after function success.

```
1.29. long PrintQRCodeXY (
        long BaseUnitX,
        long BaseUnitY,
        unsigned char * Data,
        long Size,
        long ModuleSize,
        long ECLevel,
        long Version,
        long MaskPattern,
    )
```

The function is used to print QRCode using QR Generator.

[Parameters]

BaseUnitX:

[in] It sets the x-coordinates for printing the QR Code.

BaseUnitY:

[in] It sets the y-coordinates for printing the QR Code.

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)

LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
...	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
...	
LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

[Return Values]

LK_SUCCESS : returns after function success..

```

1.30. long PrintQRCodeAlign (
    long Alignment,
    long BaseUnitY,
    unsigned char * Data,
    long Size,
    long ModuleSize,
    long ECLevel,
    long Version,
    long MaskPattern,
)

```

The function is used to print QRCode using QR Generator.

[Parameters]

Alignment:

[in] It sets justification for printing the QR Code.

BaseUnitY:

[in] It sets the y-coordinates for printing the QR Code.

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
...	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
...	
LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

[Return Values]

LK_SUCCESS : returns after function success..

1.31. long BlackMarkON

This function is used to support the Black Mark Function.

```
long
BlackMarkON (
    long FeedValue
)
```

[Parameters]

* FeedValue

- It sets the feed length after meet black mark.[Default : mm]

[Return Values]

LK_SUCCESS : returns after function success..

1.32. long BlackMarkSearch

This function is used to search the Black Mark.

```
long
BlackMarkSearch ()
```

[Return Values]

LK_SUCCESS : returns after function success..

Reference

Print Normal () Method

One Shots Perform indicated action.

Name	Data	Remarks
Paper cut	ESC #P	Cuts receipt paper. The character '#' is replaced by an ASCII decimal string telling the percentage cut desired. If '#' is omitted, then a full cut is performed. For example: The C string "\x1B 75P" requests a 75% partial cut.
Feed and Paper cut	ESC #fP	Cuts receipt paper, after feeding the paper by the RecLinesToPaperCut lines. The character '#' is defined by the "Paper cut" escape sequence.
Feed, Per cut, and Stamp	ESC #sP	Cuts and stamps receipt paper, after feeding the paper by the RecLinesToPaperCut lines. The character '#' is defined by the "Paper cut" escape sequence.
Fire stamp	ESC sL	Fires the stamp solenoid, which usually contains a graphical store emblem.
Print bitmap	ESC #B	Prints the pre-stored bitmap. The character '#' is replaced by the bitmap number.
Feed lines	ESC #fF	Feed the paper forward by lines. The character '#' is replaced by an ASCII decimal string telling the number of lines to be fed. If '#' is omitted, then one line is fed.
Feed units	ESC #uF	Feed the paper forward by mapping mode units. The character '#' is replaced by an ASCII decimal string telling the number of units to be fed. If '#' is omitted, then one unit is fed.
Feed reverse	ESC #rF	Feed the paper backward. The character '#' is replaced by an ASCII decimal string telling the number of lines to be fed. If '#' is omitted, then one line is fed.

Print Mode Characteristics that are remembered until explicitly changed.

Name	Data	Remarks
Font typeface selection	ESC #fT	Selects a new typeface for the following data. Values for the character '#' are: 0 = Default typeface. 1 = Select first typeface from the FontTypefaceList property. 2 = Select second typeface from the FontTypefaceList property. And so on.

Print Line Characteristics that are reset at the end of each print method or by a “Normal” sequence.

Name	Data	Remarks
Bold	ESC bC	Prints in bold or double-strike.
Underline	ESC #uC	Prints with underline. The character ‘#’ is replaced by an ASCII decimal string telling the width of the underline in printer dot units. If ‘#’ is omitted, then a printer-specific default width is used.
Italic	ESC iC	Prints in italics.
Alternate color (Red)	ESC rC	Prints in alternate color.
Reverse video	ESC rvC	Prints in a reverse video format.
Shading	ESC #sC	Prints in a shaded manner. The character ‘#’ is replaced by an ASCII decimal string telling the percentage shading desired. If ‘#’ is omitted, then a printer-specific default level of shading is used.
Single high & wide	ESC 1C	Prints normal size.
Double wide	ESC 2C	Prints double-wide characters.
Double high	ESC 3C	Prints double-high characters.
Double high & wide	ESC 4C	Prints double-high/double-wide characters.
Scale horizontally	ESC #hC	Prints with the width scaled ‘#’ times the normal size, where ‘#’ is replaced by an ASCII decimal string.
Scale vertically	ESC #vC	Prints with the height scaled ‘#’ times the normal size, where ‘#’ is replaced by an ASCII decimal string.
Center	ESC cA	Aligns following text in the center.
Right justify	ESC rA	Aligns following text at the right.
Normal	ESC N	Restores printer characteristics to normal condition.

* Please refer to the source on Visual Basic, VC++ , Delphi, Java, PowerBuilder and .Net program attached for the detail information