

# [CPCL Windows SDK]

[Printer CPCL Command Development Manual v2.0.4]

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# 1. Information of the Manual

This SDK manual provides the dll file information for Windows application development. We continuously promote and update the function and quality of all our products. Any change to the product specification and the manual will be without any further notice.

## 2. Operation System

Windows 10 or above

## 3. Remark

When error code Return Value is greater than 0, it is the internal error of Windows system, please refer to related help file.

The printer resolution is 200 dpi,1 mm=8 dot;The printer resolution is 300 dpi,1 mm=12 dot.

## 4. Method

### 4.1.InitPrinter

Set up the target printer of specified model (the printer object must be created before any printer operation).

```
void* InitPrinter (  
    const TCHAR* model  
);
```

**Parameter:**

*const TCHAR\* model*

[in] Specify the model of target printer.

**Return Value:**

success:Returns a handle to the printer object

fail:Return NULL

### 4.2.ReleasePrinter

The method is to release the resources of the printer object (the created printer object must be released after the operation is completed ).

```
int ReleasePrinter (  
    void* hPrinter  
);
```

**Parameter:**

*void\* hPrinter*

[in] Handle to the target printer object that needs to be released

**Return Value:**

| Code                         | Value | Description                |
|------------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS             | 0     | success                    |
| ERROR_CM_INVALID_HANDLE      | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER   | -1    | Invalid argument           |
| ERROR_CM_INSUFFICIENT_MEMORY | -4    | failed, out of memory      |

### 4.3.OpenPort

Open the communication port and connect with the printer. After successfully connected, other functions can be used. If failed connecting, please check the error information. Currently it supports USB, internet, serial interface.

```
int OpenPort (
    void* hPrinter,
    const TCHAR* setting
);
```

**Parameter:**

*void\* hPrinter*

[in] The created target printer object.

*const TCHAR\* setting*

[in] Set the communication port parameters to connect to the target printer. See the table below for details:

Configuration List:

| Type | Configuration                    | Description   | Sample                                    |
|------|----------------------------------|---|---|
| USB  | USB,Model/PortNum                | USB,printer model<br>USB,The port number<br>If you connect multiple<br>printers of different<br>models of our company at<br>the same time, it is<br>recommended to use<br>"USB, model" to connect | USB,4B-2054A<br>USB,USB031                |
| NET  | NET, IP address<br>(IPV4)[,port] | Specify the IPAddress and<br>port.If no port is<br>specified,The default port<br>is 9100.   | NET,192.168.1.10<br>NET,192.168.1.10,9100 |
| COM  | COMn,rate                        | Specify the number and<br>baud rate of connected<br>serial port   | COM10,19200                               |

**Return Value:**

| Code                          | Value | Description                |
|-------------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS              | 0     | success                    |
| ERROR_CM_INVALID_HANDLE       | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER    | -1    | Invalid argument           |
| ERROR_CM_INSUFFICIENT_MEMORY  | -4    | failed, out of memory      |
| ERROR_IO_USB_DEVICE_NOT_FOUND | -17   | Failed, device not found   |
| ERROR_IO_OPEN_FAILED          | -8    | Failed to open port        |

## 4.4.ClosePort

This function is to close the communication port and disconnect with the printer.

```
int ClosePort (  
    void* hPrinter  
);
```

**Parameter:**

*void\* hPrinter*

[in] The created target printer object.

**Return Value:**

| Code                         | Value | Description                |
|------------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS             | 0     | success                    |
| ERROR_CM_INVALID_HANDLE      | -3    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER   | -2    | Invalid argument           |
| ERROR_CM_INSUFFICIENT_MEMORY | -4    | failed, out of memory      |

## 4.5.WriteData

This function is to send data to the printer.

```
int WriteData(  
    void* handle,  
    unsigned char* buffer,  
    unsigned int size  
);
```

**Parameter:**

*void\* handle*

[in] The created target printer object.

*unsigned char\* buffer*

[in] The data sent to the printer (hex string).

*unsigned int size*

[in] The length of the sent data.

**Return Value:**

| Code                         | Value | Description                |
|------------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS             | 0     | success                    |
| ERROR_CM_INVALID_HANDLE      | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER   | -1    | Invalid argument           |
| ERROR_CM_INSUFFICIENT_MEMORY | -4    | failed, out of memory      |
| ERROR_IO_WRITE_FAILED        | -9    | Failed to send data        |
| ERROR_IO_WRITE_TIMEOUT       | -10   | Write data timed out       |

## 4.6.ReadData

This function is to read the printer data.

```
int ReadData(  
    void* handle,  
    unsigned char* buffer,  
    unsigned int size  
);
```

### Parameter:

*void\* handle*

[in] The created target printer object.

*unsigned char\* buffer*

[in] Printer data to be read.

*unsigned int size*

[in] The length of the data to be read.

### Return Value:

| Code                         | Value | Description                |
|------------------------------|-------|----------------------------|
| >0                           | >0    | success                    |
| ERROR_CM_INVALID_HANDLE      | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER   | -1    | Invalid argument           |
| ERROR_CM_INSUFFICIENT_MEMORY | -4    | failed, out of memory      |
| ERROR_IO_OPEN_FAILED         | -8    | Failed to open port        |

## 4.7.CPCL\_AddLabel

This function is to set the label size and the number of prints.

```
int CPCL_AddLabel(  
    void* handle,  
    int offSet,  
    int height,  
    int qty  
);
```

### Parameter :

*void\* handle*

[in,out] The created target printer object.

*int offSet*

[in] The starting offset of the tag (unit: dot).

Remakes: This value causes all fields to be offset horizontally by the specified number of UNITS.

*int height*

[in] The height of the printed label (range: 0-2400, unit: dot).

*int qty*

[in] The number of labels printed.

### Return Value :

| Code                         | Value | Description                |
|------------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS             | 0     | success                    |
| ERROR_CM_INVALID_HANDLE      | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER   | -1    | Invalid argument           |
| ERROR_CM_INSUFFICIENT_MEMORY | -4    | failed, out of memory      |

|                        |              |   |
|------------------------|--------------|---|
| ERROR_IO_WRITE_FAILED  | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT | -10          | Write data timed out                          |
| Other values           | Other values | the error code returned by the Windows system |

## 4.8.CPCL\_SetAlign

This function is to set the text alignment.

```
int CPCL_SetAlign(
    void* handle,
    int align
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int align*

[in] Set the text alignment.

| Position     | Value |
|--------------|-------|
| left         | 0     |
| intermediate | 1     |
| right        | 2     |

**Return Value :**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.9.CPCL\_AddText

This function is to print text.

```
int CPCL_AddText(
    void* handle,
    int rotate,
    const char* fontType,
    int fontSize,
    int xPos,
    int yPos,
    const TCHAR* data
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int rotate*

[in] Set the print orientation.

| Rotation angle     | Value |
|--------------------|-------|
| Not rotating       | 0     |
| Rotate 90 degrees  | 1     |
| Rotate 180 degrees | 2     |
| Rotate 270 degrees | 3     |

*const char\* fontType*

[in] Font type.

| Font       | Value |
|------------|-------|
| Font_12x24 | "0"   |
| Font_8x16  | "1"   |

*int fontSize*

[in] Font size (range: 0-7).

*int xPos*

[in] Horizontal starting position (range: 0-32000, unit: dot).

*int yPos*

[in] Vertical starting position (range: 0-32000, unit: dot).

*const TCHAR\* data*

[in] Text data.

Return Value :

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.10. CPCL\_AddBarCode

This function is to print bar codes.

```
int CPCL_AddBarCode(  
    void* handle,  
    int rotate,  
    int type,  
    int width,  
    int ratio,  
    int height,  
    int xPos,  
    int yPos,  
    const TCHAR* data  
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int rotate*

[in] Set the rotation mode.

0 : no rotation

1 : Rotate 90 degrees

*int type*



[in] Set the barcode type.

| Barcode type                  | Value |
|-------------------------------|-------|
| Code 128                      | 0     |
| Code 128A                     | 1     |
| Code 128B                     | 2     |
| Code 128C                     | 3     |
| Code 128 Extended             | 4     |
| Code 39                       | 5     |
| Code 39 with Check Digit      | 6     |
| Code 93                       | 7     |
| CodaBar                       | 8     |
| CodaBar with Checksum         | 9     |
| EAN-13                        | 10    |
| EAN-13 Plus 2                 | 11    |
| EAN-13 Plus 5                 | 12    |
| EAN-8                         | 13    |
| EAN-8 Plus 2                  | 14    |
| EAN-8 Plus 5                  | 15    |
| Code 39 Full                  | 16    |
| Code 39 Full With Check Digit | 17    |
| Facing Identification Mark    | 18    |
| Interleaved 2 of 5            | 19    |
| I 2 of 5 with Checksum        | 20    |
| German Post Code              | 21    |
| MSI                           | 24    |
| MSI10                         | 25    |
| MSI1010                       | 26    |
| MSI1110                       | 27    |

*int width*

[in] Set the barcode width (unit: dot).

*int ratio*

[in] Bar code black and white block width ratio.

*int height*

[in] Set the bar code height (unit: dot).

*int xPos*

[in] Horizontal starting position (range: 0-32000, unit: dot).

*int yPos*

[in] Vertical starting position (range: 0-32000, unit: dot).

*const TCHAR\* data*

[in] Barcode data.

**Return Value :**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.11. CPCL\_AddBarCodeText

This function is to display the bar code content.

```
int CPCL_AddBarCodeText(  
    void* handle,  
    int enable,  
    int fontType,  
    int fontSize,  
    int offset  
);
```

### Parameter:

*void\* handle*

[in,out] The created target printer object.

*int enable*

[in] Whether to display barcode content

0 : Not displayed

1 : Display

*int fontType*

[in] Font type (range: Refer to the figure below).

*int fontSize*

[in] Font size. (range: Refer to the figure below)

*int offset*

[in] Displacement distance.

Font type and size:

| Font  | Size | Width | Height | Char. Height | Char Width     |
|-------|------|-------|--------|--------------|----------------|
| 0     | 0    | 1     | 1      | 9            | 8              |
| 0     | 1    | 2     | 1      | 9            | 16             |
| 0     | 2    | 1     | 2      | 18           | 8              |
| 0     | 3    | 2     | 2      | 18           | 16             |
| 0     | 4    | 3     | 2      | 18           | 32             |
| 0     | 5    | 2     | 3      | 36           | 16             |
| 0     | 6    | 3     | 3      | 36           | 32             |
| 1     | 0    | 1     | 1      | 48           | 8-25 Variable  |
| 2     | 0    | 1     | 1      | 12           | 20             |
| 2     | 1    | 1     | 2      | 24           | 20             |
| 4 (A) | 0    | 1     | 1      | 47           | 8-43 Variable  |
| 4 (A) | 1    | 1     | 2      | 94           | 8-43 Variable  |
| 4 (B) | 2    | 1     | ½      | 45           | 26-51 Variable |
| 4 (B) | 3    | 1     | 1      | 90           | 26-51 Variable |
| 4 (B) | 4    | 1     | 2      | 180          | 26-51 Variable |
| 4 (B) | 5    | 1     | 3      | 270          | 26-51 Variable |
| 4 (B) | 6    | 1     | 4      | 360          | 26-51 Variable |
| 4 (B) | 7    | 1     | 5      | 450          | 26-51 Variable |
| 5     | 0    | 1     | 1      | 24           | 5-23 Variable  |
| 5     | 1    | 1     | 2      | 48           | 5-23 Variable  |
| 5     | 2    | 2     | 2      | 46           | 8-39 Variable  |
| 5     | 3    | 2     | 3      | 92           | 8-39 Variable  |
| 6     | 0    | 1     | 1      | 27           | 28             |
| 7     | 0    | 1     | 1      | 24           | 12             |
| 7     | 1    | 1     | 2      | 48           | 12             |

**Return Value:**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.12. CPCL\_AddQRCode

This function is to print QR codes.

```
int CPCL_AddQRCode(
    void* handle,
    int rotate,
    int xPos,
    int yPos,
    int model,
    int unitWidth,
    int eccLevel,
    const TCHAR* data
);
```

### Parameter:

*void\* handle*

[in,out] The created target printer object.

*int rotate*

[in] Set the rotation mode.

0 : No rotation

1 : Rotate 90 degrees

*int xPos*

[in] Horizontal starting position (range: 0-32000, unit: dot).

*int yPos*

[in] Vertical starting position (range: 0-32000, unit: dot).

*int model*

[in] Set the QR code version (1 : Basic, 2 : Enhanced).

*int unitWidth*

[in] Set the QR code width.( range:1-32, default: 6)

*int eccLevel*

[in] Error correction level.

| Fault tolerance level | Value |
|-----------------------|-------|
| 7%                    | 0     |
| 15%                   | 1     |
| 25%                   | 2     |
| 30%                   | 3     |

*const TCHAR\* data*

[in] QR code data.

### Return value:

| Code                       | Value | Description                |
|----------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS           | 0     | success                    |
| ERROR_CM_INVALID_HANDLE    | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER | -1    | Invalid argument           |

|                              |              |   |
|------------------------------|--------------|---|
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

### 4.13. CPCL\_AddPDF417

This function is to print PDF417 code.

```
int CPCL_AddPDF417(
    void* handle,
    int rotate,
    int xPos,
    int yPos,
    int xDots,
    int yDots,
    int columns,
    int eccLevel,
    const TCHAR* data
);
```

**Parameter:**

*void\* handle*

[in,out]The created target printer object.

*int rotate*

[in] Set the rotation mode.

0 : No rotation

1 : Rotate 90 degrees

*int xPos*

[in] Horizontal starting position (range: 0-32000, unit: dot).

*int yPos*

[in] Vertical starting position (range: 0-32000, unit: dot).

*int xDots*

[in] Pixel width (unit: dot, range:1-32, default: 2).

*int yDots*

[in] Pixel height (unit: dot, range:1-32, default: 6).

*int columns*

[in] The number of barcode columns.( range:1-30, default: 3)

*int eccLevel*

[in] Error correction level. (range:0-8, default: 1)

| Degree of fault tolerance | Value |
|---------------------------|-------|
| 0                         | 0     |
| 2                         | 1     |
| 6                         | 2     |
| 14                        | 3     |
| 30                        | 4     |
| 62                        | 5     |
| 126                       | 6     |
| 254                       | 7     |
| 510                       | 8     |

*const TCHAR\* data*

[in] PDF417 code data.

**Return Value :**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.14. CPCL\_AddBox

This function is to draw a rectangular box.

```
int CPCL_AddBox(
    void* handle,
    int xPos,
    int yPos,
    int endXPos,
    int endYPos,
    int thickness
);
```

### Parameter:

*void\* handle*

[in,out] The created target printer object.

*int xPos*

[in] Horizontal starting position (range: 0-32000, unit: dot).

*int yPos*

[in] Vertical starting position (range: 0-32000, unit: dot).

*int endXPos*

[in] Horizontal end position (range: 0-32000, unit: dot).

*int endYPos*

[in] Vertical end position (range: 0-32000, unit: dot).

*int thickness*

[in] The width of the rectangle border.

### Return Value:

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.15. CPCL\_AddLine

This function is to draw a line.

```

int CPCL_AddLine(
    void* handle,
    int xPos,
    int yPos,
    int endXPos,
    int endYPos,
    int thickness
);

```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int xPos*

[in] Horizontal starting position (range: 0-32000, unit: dot).

*int yPos*

[in] Vertical starting position (range: 0-32000, unit: dot).

*int endXPos*

[in] Horizontal end position (range: 0-32000, unit: dot).

*int endYPos*

[in] Vertical end position (range: 0-32000, unit: dot).

*int thickness*

[in] The width of the line.

**Return Value:**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.16. CPCL\_AddImage

This function is to print pictures (format: bmp, jpg, gif, etc).

```

int CPCL_AddImage(
    void* handle,
    int rotate,
    int xPos,
    int yPos,
    const TCHAR*filePath
);

```

**Parameter:**

*void\* handle*

[in,out]The created target printer object.

*int rotate*

[in] Set the picture rotation mode.

0 : No rotation

1 : Rotate 90 degrees

*int xPos*

[in] Horizontal starting position (range: 0-32000, unit: dot).

*int yPos*

[in] Vertical starting position (range: 0-32000, unit: dot).  
*const TCHAR\*filePath*  
[in] The correct path to the picture.

**Return Value:**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.17. CPCL\_AddImageData

This function is to print the picture (directly into the picture pixel data).

```
int CPCL_AddImageData(
    void* handle,
    int rotate,
    int widthBytes,
    int height,
    int xPos,
    int yPos,
    const char* data
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int rotate*

[in] Set the picture rotation mode.

0 : No rotation

1 : Rotate 90 degrees

*int widthBytes*

[in] Image data width. ( unit: dpi)

*int height*

[in] Image height. ( unit: dpi)

*int xPos*

[in] Horizontal starting position (range: 0-32000, unit: dot).

*int yPos*

[in] Vertical starting position (range: 0-32000, unit: dot)

*const char\* data*

[in] Image data.

**Return Value:**

| Code                         | Value | Description                |
|------------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS             | 0     | success                    |
| ERROR_CM_INVALID_HANDLE      | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER   | -1    | Invalid argument           |
| ERROR_CM_INSUFFICIENT_MEMORY | -4    | failed, out of memory      |
| ERROR_IO_WRITE_FAILED        | -9    | Failed to send data        |
| ERROR_IO_WRITE_TIMEOUT       | -10   | Write data timed out       |

|              |              |   |
|--------------|--------------|---|
| Other values | Other values | the error code returned by the Windows system |
|--------------|--------------|---|

## 4.18. CPCL\_SetFontSize

This function is to set the font size.

```
int CPCL_SetFontSize(
    void* handle,
    int width,
    int height
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int width*

[in] Set the font width (width magnification: 0- 16).

*int height*

[in] Set the font height (height magnification: 0-16).

**Return Value:**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.19. CPCL\_SetDensity

This function is to set the print density.

```
int CPCL_SetDensity(
    void* handle,
    int density
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int density*

[in] Printing density(range: 0-3).

**Return Value:**

| Code                       | Value | Description                |
|----------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS           | 0     | success                    |
| ERROR_CM_INVALID_HANDLE    | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER | -1    | Invalid argument           |



|                              |              |   |
|------------------------------|--------------|---|
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.20. CPCL\_SetSpeed

This function is to set the print speed.

```
int CPCL_SetSpeed(
    void* handle,
    int speed
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int speed*

[in] Printing speed(range: 0-5).

**Return Value:**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.21. CPCL\_SetTextSpacing

This function is to set the character spacing.

```
int CPCL_SetTextSpacing(
    void* handle,
    int spacing
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int spacing*

[in] Character spacing(range: 0-255).

**Return Value:**

| Code                       | Value | Description                |
|----------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS           | 0     | success                    |
| ERROR_CM_INVALID_HANDLE    | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER | -1    | Invalid argument           |

|                              |              |   |
|------------------------------|--------------|---|
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.22. CPCL\_SetLeftMargin

This function is to set the value of the left margin when starting printing.(line print mode)

```
int CPCL_SetLeftMargin(
    void* handle,
    int margin
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int margin*

[in] The value of the left margin (range: 0-999).

**Return Value :**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.23. CPCL\_SetTextBold

This function is to set the font boldness.

```
int CPCL_SetTextBold(
    void* handle,
    int bold
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int bold*

[in] Font boldness (range: 0-5).

**Return Value :**

| Code                    | Value | Description                |
|-------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS        | 0     | success                    |
| ERROR_CM_INVALID_HANDLE | -2    | failed with invalid handle |

|                              |              |   |
|------------------------------|--------------|---|
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.24. CPCL\_SetTextUnderline

This function is to set the text underline.

```
int CPCL_SetTextUnderline(
    void* handle,
    int underline
);
```

### Parameter:

*void\* handle*

[in,out] The created target printer object.

*int underline*

[in] Underline.

0 : Turn off the underline

1 : Activate underline

### Return Value:

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.25. CPCL\_Abort

This function is to terminate the current control session without printing.

```
int CPCL_Abort(
    void* handle
);
```

### parameter:

*void\* handle*

[in,out] The created target printer object.

### Return Value:

| Code                       | Value | Description                |
|----------------------------|-------|----------------------------|
| ERROR_CM_SUCCESS           | 0     | success                    |
| ERROR_CM_INVALID_HANDLE    | -2    | failed with invalid handle |
| ERROR_CM_INVALID_PARAMETER | -1    | Invalid argument           |

|                              |              |   |
|------------------------------|--------------|---|
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.26. CPCL\_Print

This function is to print the labels.

```
int CPCL_Print(
    void* handle
);
```

**Parameter:**

*void\* handle*  
[in,out] The created target printer object.

**Return Value :**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.27. CPCL\_NextLabelPos

This function is to feed the paper to the next label.

```
int CPCL_NextLabelPos(
    void* handle
);
```

**Parameter:**

*void\* handle*  
[in,out] The created target printer object.

**Return Value :**

| Code                         | Value        | Description                    |
|------------------------------|--------------|--------------------------------|
| ERROR_CM_SUCCESS             | 0            | success                        |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle     |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument               |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory          |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data            |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out           |
| Other values                 | Other values | the error code returned by the |

|  |  |                |
|--|--|----------------|
|  |  | Windows system |
|--|--|----------------|

## 4.28. CPCL\_PreFeed

This function is to feed the paper to the specified distance before printing the label.

```
int CPCL_PreFeed(
    void* handle,
    int distance
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int distance*

[in] The distance (range: -4000-4000, unit: dot).

**Return Value :**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |

## 4.29. CPCL\_PostFeed

This function is to feed the paper to the specified distance after printing the label.

```
int CPCL_PostFeed(
    void* handle,
    int distance
);
```

**Parameter:**

*void\* handle*

[in,out] The created target printer object.

*int distance*

[in] The distance (range: -4000-4000, unit: dot).

**Return Value :**

| Code                         | Value        | Description                    |
|------------------------------|--------------|--------------------------------|
| ERROR_CM_SUCCESS             | 0            | success                        |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle     |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument               |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory          |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data            |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out           |
| Other values                 | Other values | the error code returned by the |

## 4.30. CPCL\_GetPrinterStatus

This function is to get the status of the printer.

```
int CPCL_GetPrinterStatus (
    void* handle,
    int* status
);
```

**Parameter:**

*void\* handle*

[in] The created target printer object.

*int \*status*

[in,out] The status of the printer.

| Status                   | Value | Bit |
|--------------------------|-------|-----|
| Normal                   | 0     | -   |
| The print head is opened | 1     | 0   |
| Paper jam                | 2     | 1   |
| Out of paper             | 4     | 2   |
| Out of ribbon            | 8     | 3   |
| Print pause              | 16    | 4   |
| Printing                 | 32    | 5   |
| Cover opened             | 64    | 6   |
| Other error              | 128   | 7   |

**Return Value:**

| Code                         | Value        | Description                                   |
|------------------------------|--------------|---|
| ERROR_CM_SUCCESS             | 0            | success                                       |
| ERROR_CM_INVALID_HANDLE      | -2           | failed with invalid handle                    |
| ERROR_CM_INVALID_PARAMETER   | -1           | Invalid argument                              |
| ERROR_CM_INSUFFICIENT_MEMORY | -4           | failed, out of memory                         |
| ERROR_IO_WRITE_FAILED        | -9           | Failed to send data                           |
| ERROR_IO_READ_FAILED         | -11          | Failed to read data                           |
| ERROR_IO_WRITE_TIMEOUT       | -10          | Write data timed out                          |
| Other values                 | Other values | the error code returned by the Windows system |