

2014

# GoDEX ActiveX Library User Manual

Control GoDEX printer by programming

This manual will describe how to use GoDEX ActiveX Library to control GoDEX Printer. Through simple examples, you will learn how to print text

FW/SW DEPT.

GoDEX

2014/7/22



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## 1 Overview

GoDEX ActiveX Library is an ActiveX Library provided by GoDEX. Program developers can use this component to develop the printer control program. This library provides 32-bit and 64-bit versions. It is recommended for Windows XP operating system or later, the latest version supports to Windows 8.

GoDEX ActiveX Library provides the control function of USB, COM, LPT, Driver and network. Before the start of the printer controlling, you must call `openport()`, `OpenNet()` or `OpenDriver()` to establish communication between the program and the printer. After setting or printing is complete, you must call `closeport()` function to end the connection between the program and the printer.

You can use `sendcommand()` function to send commands to GoDEX printer. It must use EZPL GoDEX printer language to control the printer. If you need more advanced control method, you can go to the official website (<http://www.godexintl.com/global/download/downloads/list/Manuals>) to download GoDEX EZPL Programming Manual.

For example: The EZPL instruction of printing the self-test page is ~ V. If you want to print it by programming, you must send `sendcommand("~ V")` in the program

You can use `ecTextOut()` related functions to print text and use `putimage()` function to print images.

Finally, please noted that EZPL when printing must follow one rule : Anything printed is surrounded by ^ L and E, and if you do not have instructions printed outside.

```
openport(6);  
sendcommand("^L");  
:  
sendcommand(EZPL command);  
:  
sendcommand("E");  
closeport();
```

## 2 Function List

NO.	Command	Description
1	<a href="#">openport</a>	Open serial ,printer or USB port
2	<a href="#">OpenDriver</a>	Using the name of installed printer driver to open the specific printer.
3	<a href="#">OpenNet</a>	Using IP address and port to open the specific printer connected to network
4	<a href="#">setbaudrate</a>	Set the baud rate of host
5	<a href="#">closeport</a>	Close the opened port.
6	<a href="#">setup</a>	Set label size, darkness and speed of printer.
7	<a href="#">sendcommand</a>	Send EZPL command
8	<a href="#">putimage</a>	Printing image (format BMP and JPG). Halftone will be applied to the image.
9	<a href="#">ecTextOut</a>	Printing the TrueType fonts directly.
10	<a href="#">ecTextOutR</a>	Printing the TrueType fonts with orientation settings
11	<a href="#">ecTextOutFine</a>	Printing the TrueType fonts with orientation, weight, italic, underline, strikeouts, and inverse settings.

## 3 Function Description

### 3.1 **openport**(PortID)

Description	Select the output port
Parameters	PortID Type : (char *) Output port ref. “0” = LPT1 “1” = COM1 “2” = COM2 “3” = COM3 “4” = COM4 “5” = LPT2 “6” = USB
Return Value	1 = (integer) OK 0 = (integer) FAIL

### 3.2 **OpenDriver**(DriverName)

Description	透 Using the name of printer driver to open the specific printer
Parameters	DriverName Type : (char *) The input reference containing the name of printer driver
Return Value	1 = (integer) OK 0 = (integer) FAIL

### 3.3 **OpenNet**(IP, Port)

Description	Using IP address and port to open the specific printer
Parameters	IP Type : (char *) the output reference containing found IP Port Type : (char *) the output reference containing found Port
Return Value	1 = (integer) OK 0 = (integer) FAIL

### 3.4 **setbaudrate(Baudrate)**

Description	Set the baud rate of host
Parameters	Baudrate Type : Integer The value of baud rate from for example 4800, 9600, 19200, 38400.
Return Value	None

### 3.5 **closeport()**

Description	Close output ports
Parameters	None
Return Value	None

### 3.6 **setup(height, dark, speed , mode, gap, top)**

Description	Setup parameters of printer
Parameters	height Type : Integer Label size setting (in mm) dark Type : Integer Darkness (0~19) speed Type : Integer Printing speed (2~7) mode Type : Integer Label mode 0: Label with gap 1: Plain paper 2: Black mark label gap Type : Integer Label gap (in mm) top Type : Integer black top for black mark label
Return Value	1 = (integer) OK

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	0 = (integer) FAIL
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### 3.7 **sendcommand(command)**

Description	Send EZPL command to printer
Parameters	command Type : (char *) Any EZPL command
Return Value	1 = (integer) OK 0 = (integer) FAIL

### 3.8 **putimage(PosX, PosY, Filename, Degree)**

Description	Printing image (format BMP and JPG) directly. Halftone will be applied to the image.
Parameters	PosX Type : Integer Left-upper Hori. pos. (dots). PosY Type : Integer Left-upper Vert. pos. (dots). Filename Type : (char *) The file name of the image support BMP and JPG file type. Degree Type : Integer 0 : no rotation 90 : rotate 90 degree
Return Value	1 = (integer) OK 0 = (integer) FAIL

### 3.9 **ecTextOut(PosX, PosY, Height, FontName, Data)**

Description	Printing the TrueType fonts
Parameters	osX Type : Integer Left-upper Hori. pos. (dots) PosY Type : Integer Left-upper Vert. pos. (dots)

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	Height Type : Integer Height of the text FontName Type : (char *) Name of the fonts Data Type : (char *) Data string
Return Value	1    = (integer) OK 0    = (integer) FAIL

### 3.10 **ecTextOutR**(PosX, PosY, Height, FontName, Data, Width, Weight , Degree)

Description	Printing the TrueType fonts of WINDOWS with orientation settings
Parameters	PosX Type : Integer Left-upper Hori. pos. (dots) PosY Type : Integer Left-upper Vert. pos. (dots) Height Type : Integer Height of the text FontName Type : (char *) Name of the fonts Data Type : (char *) Data string Width Type : Integer width of the text Weight Type : Integer Specifies the weight of the font in the range 0 through 1000. For example, 400 is normal and 700 is bold. Degree



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	Type : Integer Set the rotation of the output text. 0 for degree 0, 90 for degree 90, 180 for degree 180 270 for degree 270
Return Value	1 = (integer) OK 0 = (integer) FAIL

### 3.11 **ecTextOutFine**(PosX, PosY, Height, FontName, Data, Width, Weight, Degree, Italic, Underline, Strikeout, Inverse)

Description	Printing the TrueType fonts with orientation, weight, italic, underline, strikeout, and inverse settings.
Parameters	<p>PosX          Type : Integer          Left-upper Hori. pos. (dots)</p> <p>PosY          Type : Integer          Left-upper Vert. pos. (dots)</p> <p>Height          Type : Integer          Height of the text</p> <p>FontName          Type : (char *)          Name of the fonts</p> <p>Data          Type : (char *)          Data string</p> <p>Width          Type : Integer          width of the text</p> <p>Weight          Type : Integer          Specifies the weight of the font in the range 0 through 1000.          For example, 400 is normal and 700 is bold.</p> <p>Degree          Type : Integer</p>

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	<p>Set the rotation of the output text. 0 for degree 0, 90 for degree 90, 180 for degree 180 270 for degree 270</p> <p><b>Italic</b> Type : Integer Specifies an italic font if set to TRUE(1).</p> <p><b>Underline</b> Type : Integer Specifies an underlined font if set to TRUE.</p> <p><b>Strikeout</b> Type : Integer Specifies a strikeout font if set to TRUE.</p> <p><b>Inverse</b> Type : Integer 0:normal printout 1:inverse printout</p>
Return Value	<p>1 = (integer) OK 0 = (integer) FAIL</p>

## 4. Programming Guide

Install *GoDEXATL\_inst(32bit).exe* (or *GoDEXATL\_inst(64bit).exe*).

It will do the following automatically :

1. Copy GoDEXATL32.dll (or GoDEXATL64.dll) to install folder, and register the dll to system
2. Copy EZio32.dll (or EZio64.dll) to system folder (EX:C:\Windows\system32) °

If you want to use ActiveX components in a client, please note that the browser's security settings °

Refer to “Example” directory sample code. You can learn how to print text via USB port.