

OPOS Driver for FEC VFD/LCM

FEC

August 29th, 2018

Document Revision History

Rev.	Date	Author	Draft/Changes
0.1	2015/10/23	James Wang	First Version
0.2	2018/3/5	Nelson Yang	Confirm Support AP-2029/FV-2029/ AP-2025G
0.3	2018/3/7	Nelson Yang	Add CCO Installer to FECSetup.exe for auto install CCO
0.4	2018/8/29	Elliot Ling	<ol style="list-style-type: none"> 1. Support Win10 especially for 64bit OS 2. Support Multiple codepage for AP-2025 (192x32 LCM)
0.5	2019/3/25	Elliot Ling	<ol style="list-style-type: none"> 1. Remove unnecessary models selection, keep 20x2 、 24x2 、 AP-2025(24x2), which AP-2025 support multiple codepage 2. Add CCO installation guide in this document 3. Support 57600 & 115200 baudrate

1. Introduction

1.1. Overview

This document describes how to use the FEC OPOS driver for the FEC VFD/LCM. The FEC OPOS driver is a software program for controlling VFD/LCM from Windows applications to the VFD/LCM.

1.2. System Requirements

This VFD/LCM driver can be used with the following system configurations.

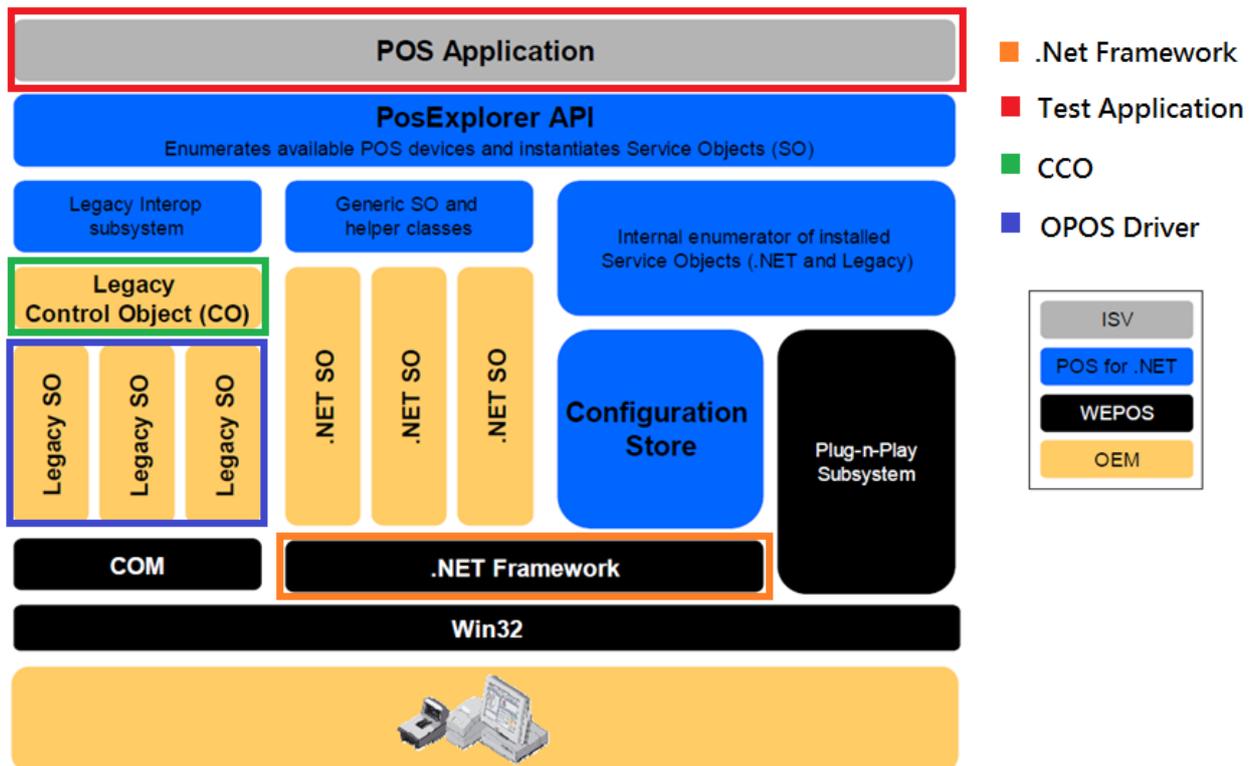
- **VFD**
 - 20x2 (Model AP-2029)
 - 20x2 (Model FV-2029)
- **LCM**
 - 24x2(Model AP-2025G)
 - 192x32(Model AP-2025)
- **Hardware Platform**
 - **COM port dependence (9600/19200/38400/57600/115200)**
- **Supported Operating System (OS)**
 - Microsoft® Windows Embedded® POSReady 2009
 - Microsoft® Windows Embedded® POSReady 7
 - Microsoft® Windows 8/8.1/10

The 32-bit/64-bit OS versions are also supported

- **Additional Requirements include:**
 - .NET 4.0 and above

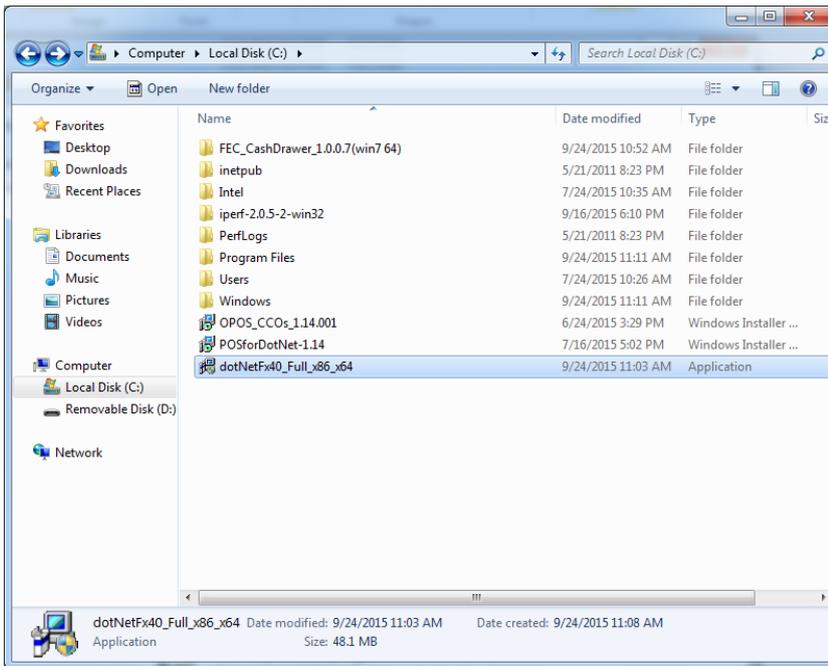
2. Installing for FEC OPOS Driver

This section describes the installation all software about FEC VFD/LCM OPOS driver, these software contain .Net Framework, Testing Application, Common Control Object (CCO) and FEC OPOS Driver.

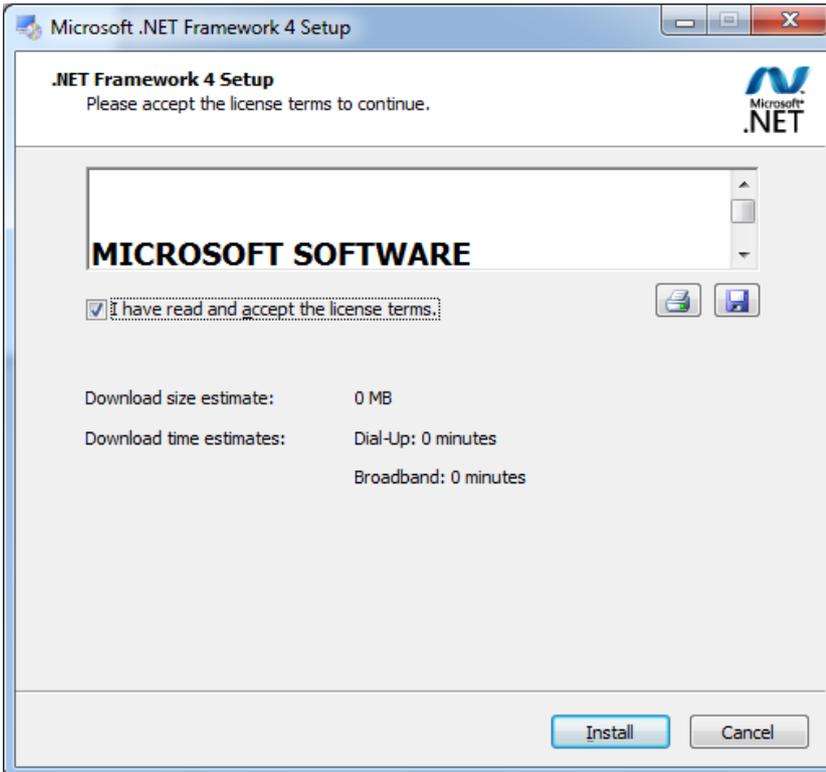


2.1. Microsoft .Net Framework 4.0 installation

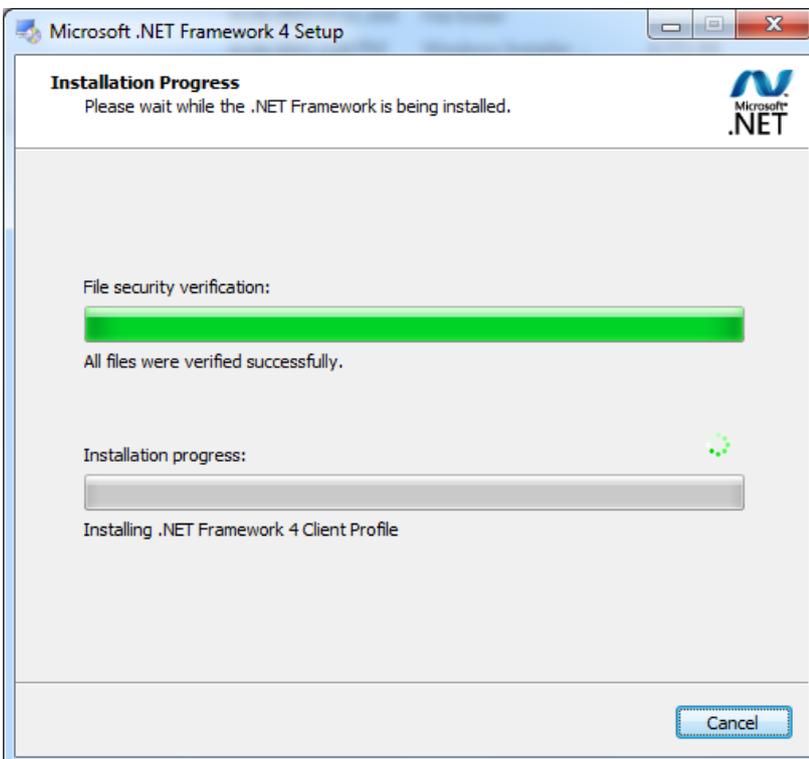
- Double-Click for doNetFx40_Full_x86_x64 to begin install.



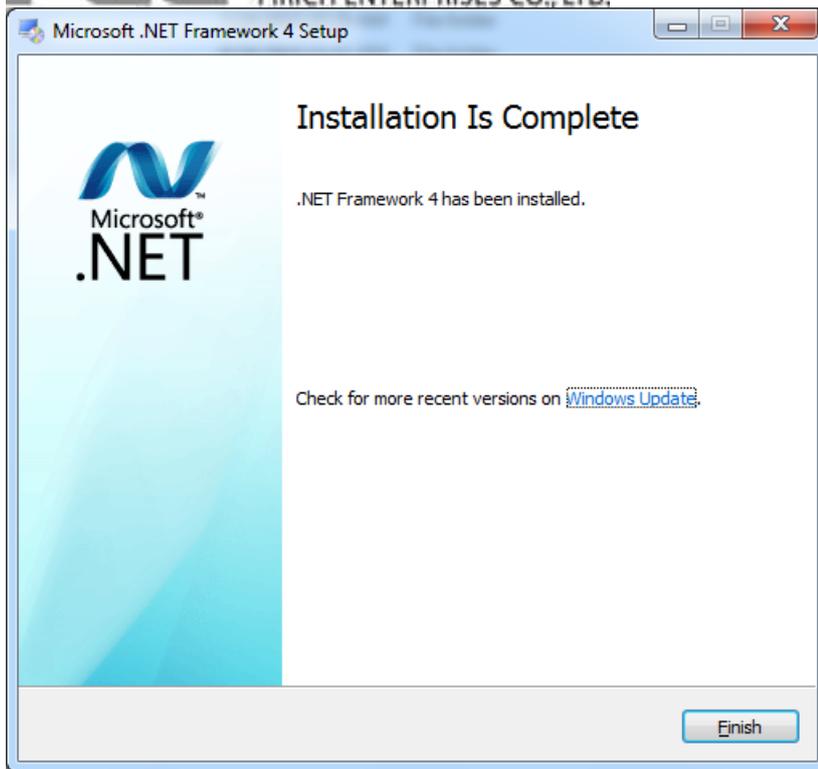
- To accept the license agreement



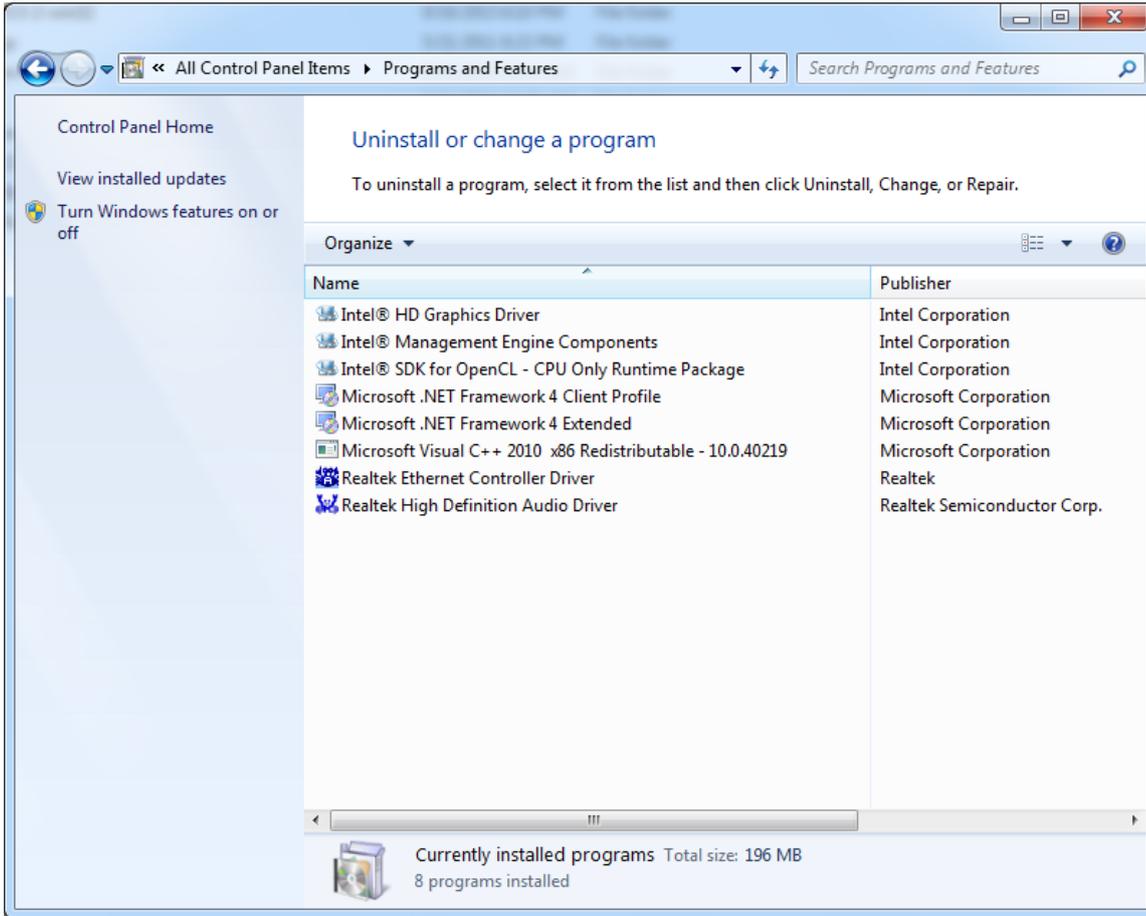
- Begin install process



- Finish installation

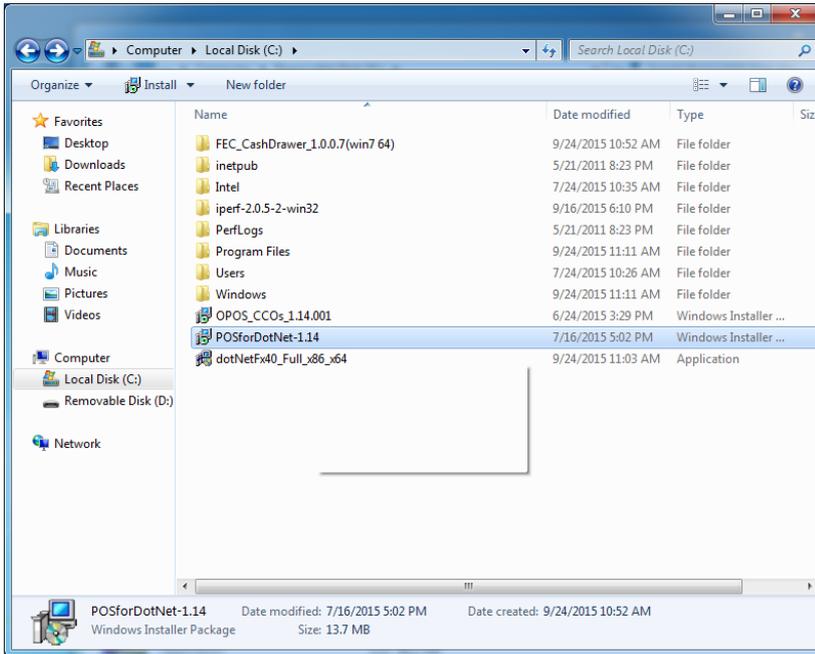


- Check .Net Framework has been installed

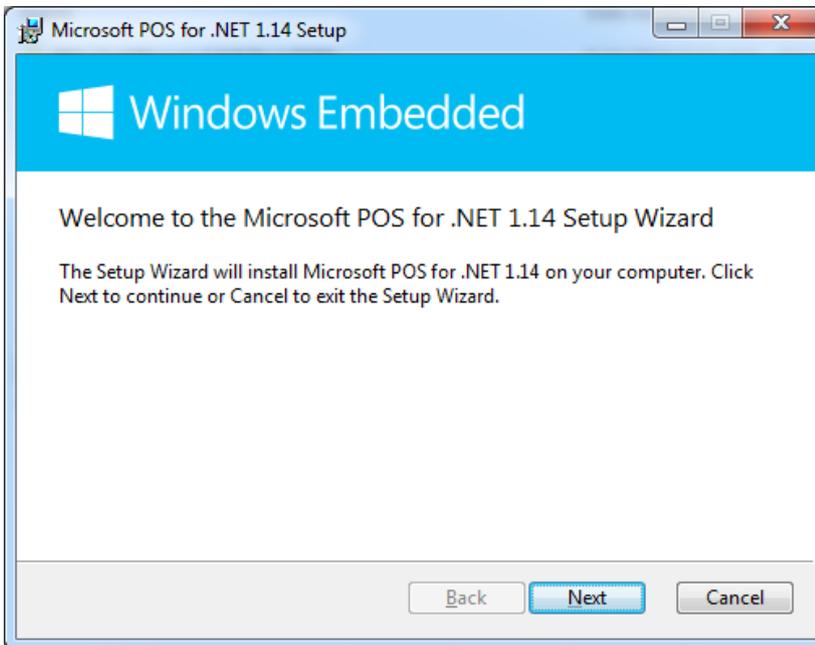


2.2. Testing Application of POS for .Net

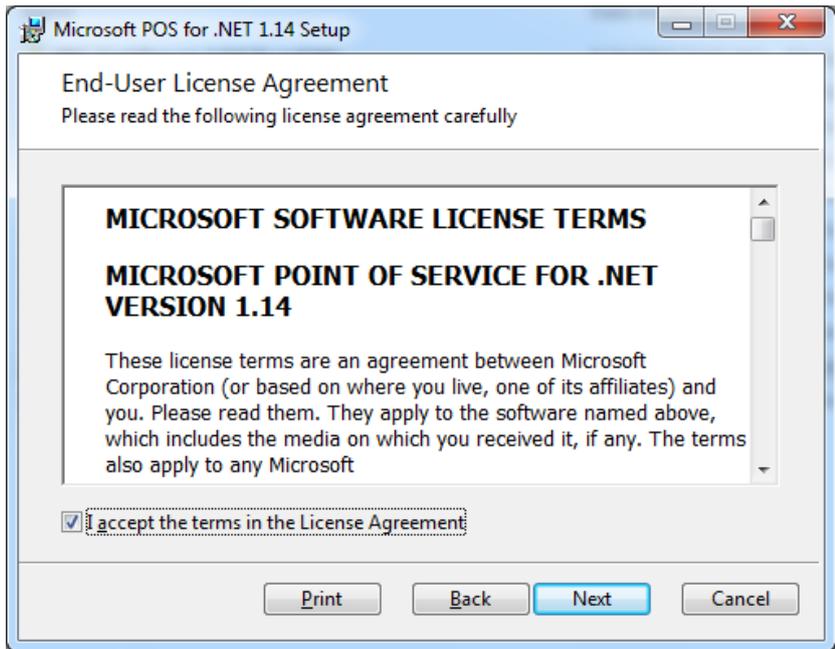
- Double-Click for POSforDoNet-1.14 to begin install



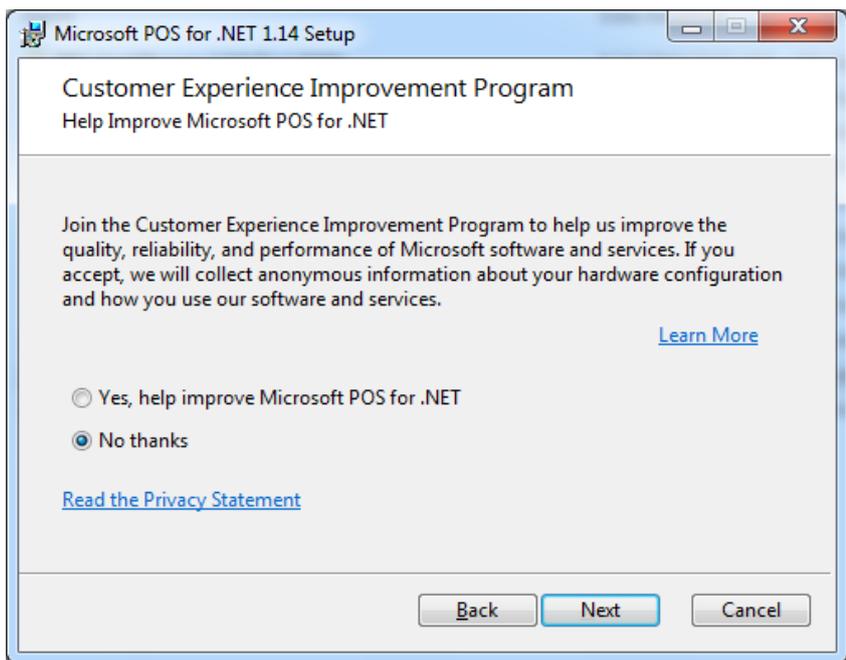
- First Screen for installation



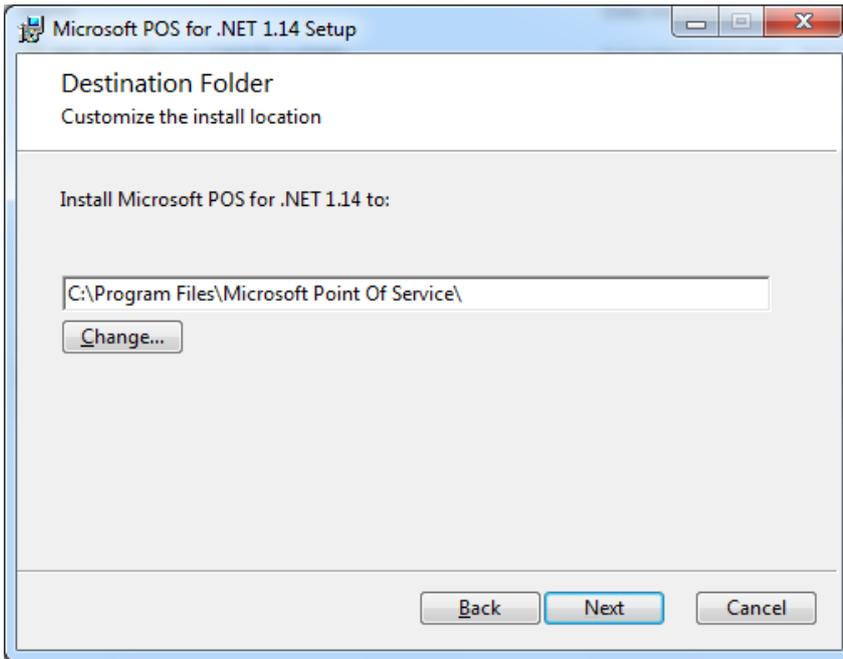
- To accept the license agreement



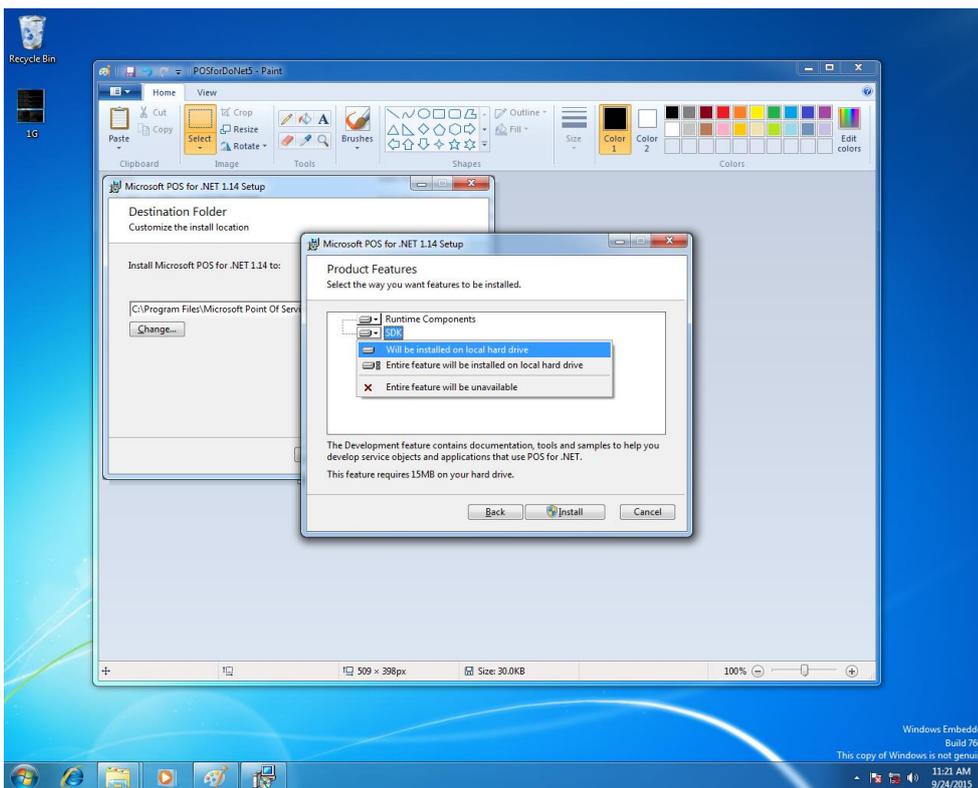
- Option for Customer Experience Improvement Program, Set “No thanks” for this step

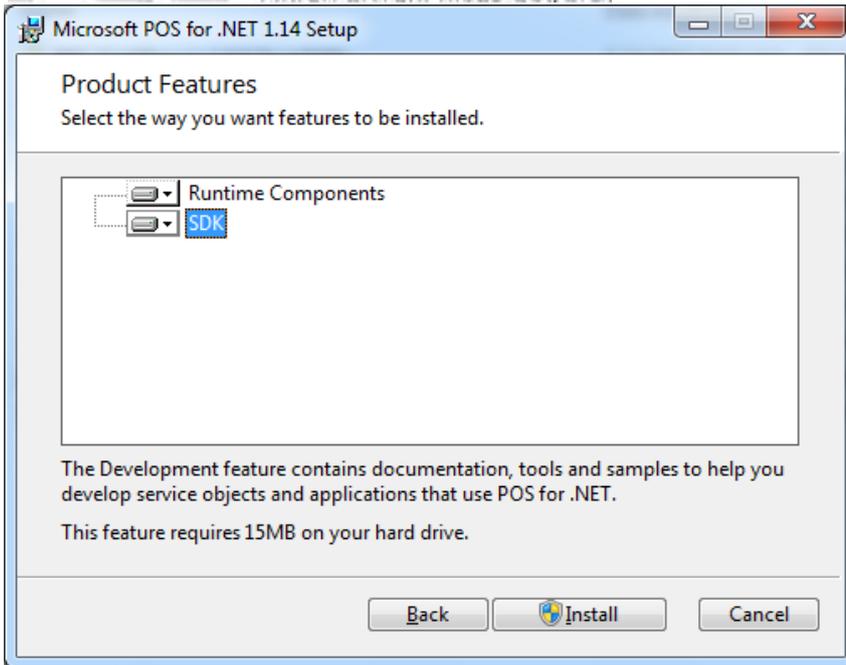


- Set up the install path for the program

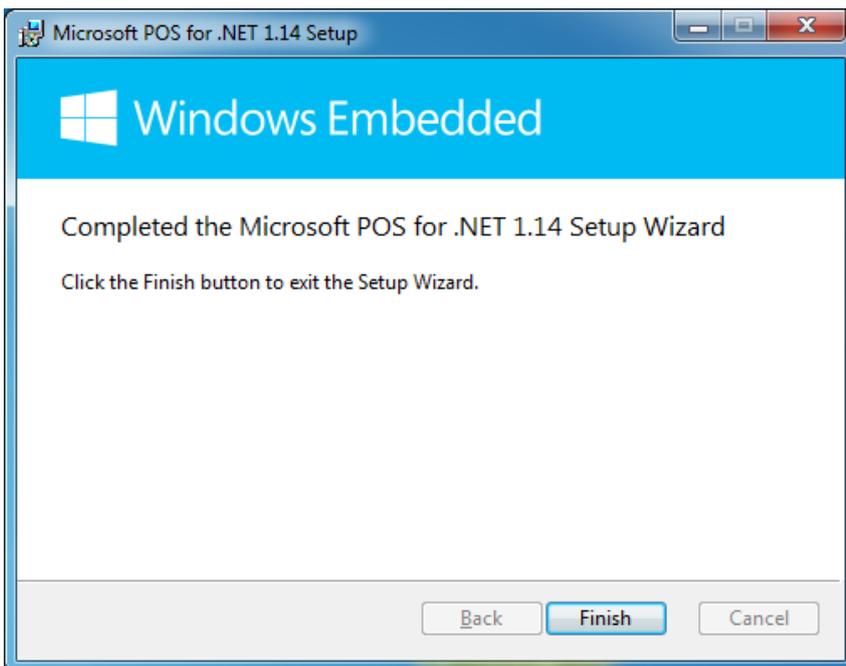


- Select install package for SDK

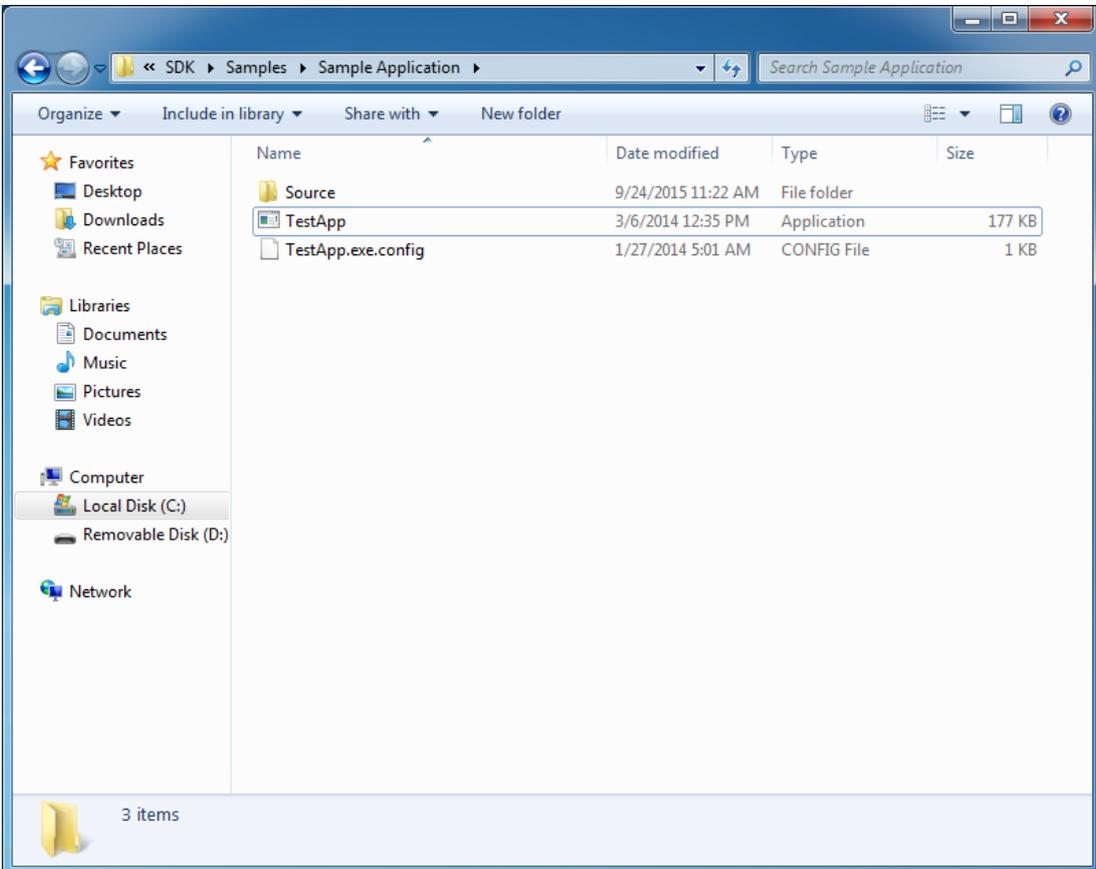
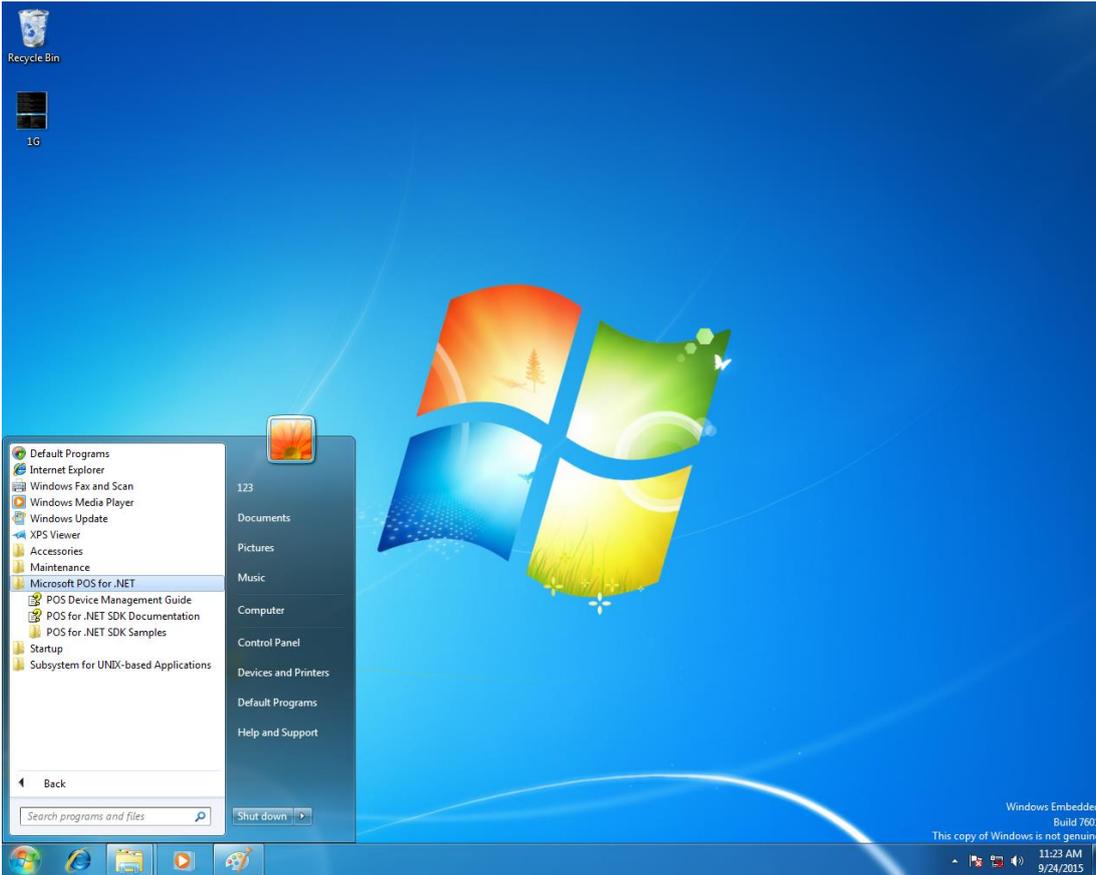




- Finish installation

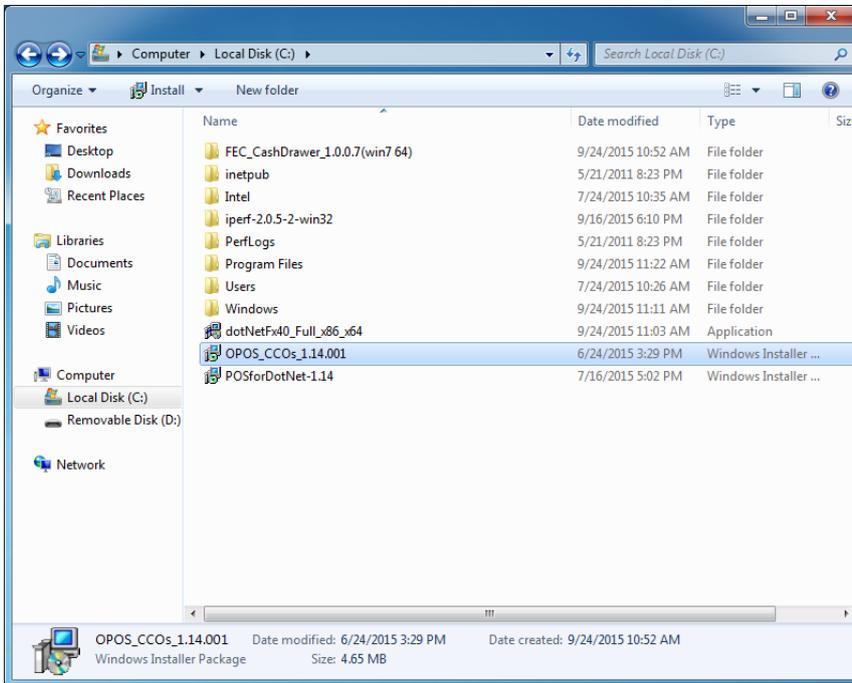


- Check Test Application of POSfor.Net has been installed



2.3. Common Control Object (CCO)

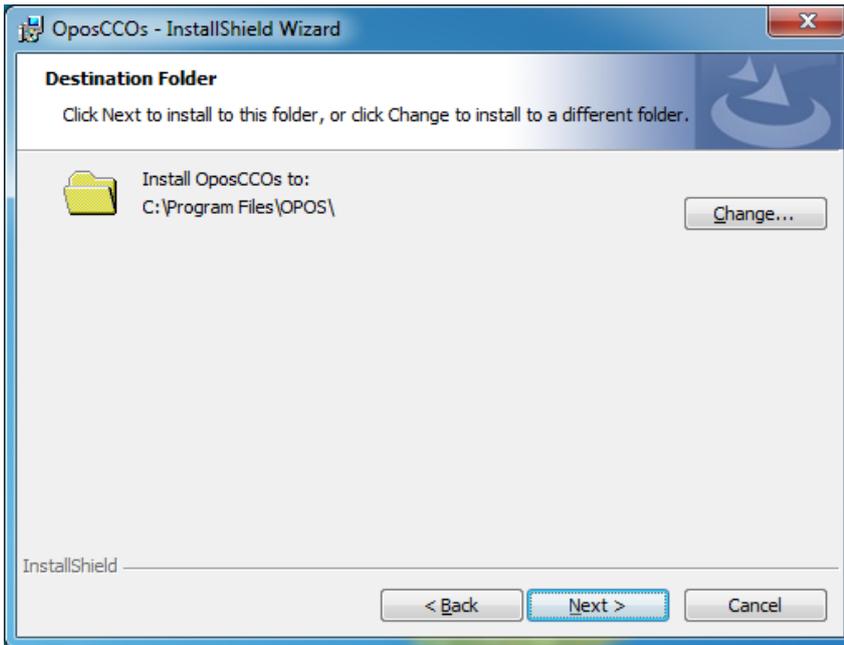
- Double-Click for POSforDoNet-1.14 to begin install



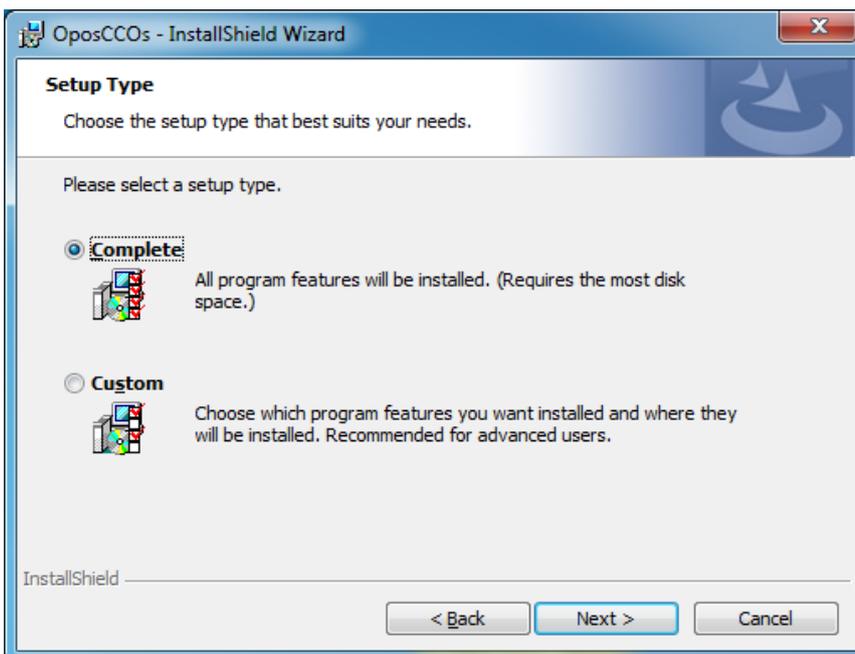
- First Screen for installation



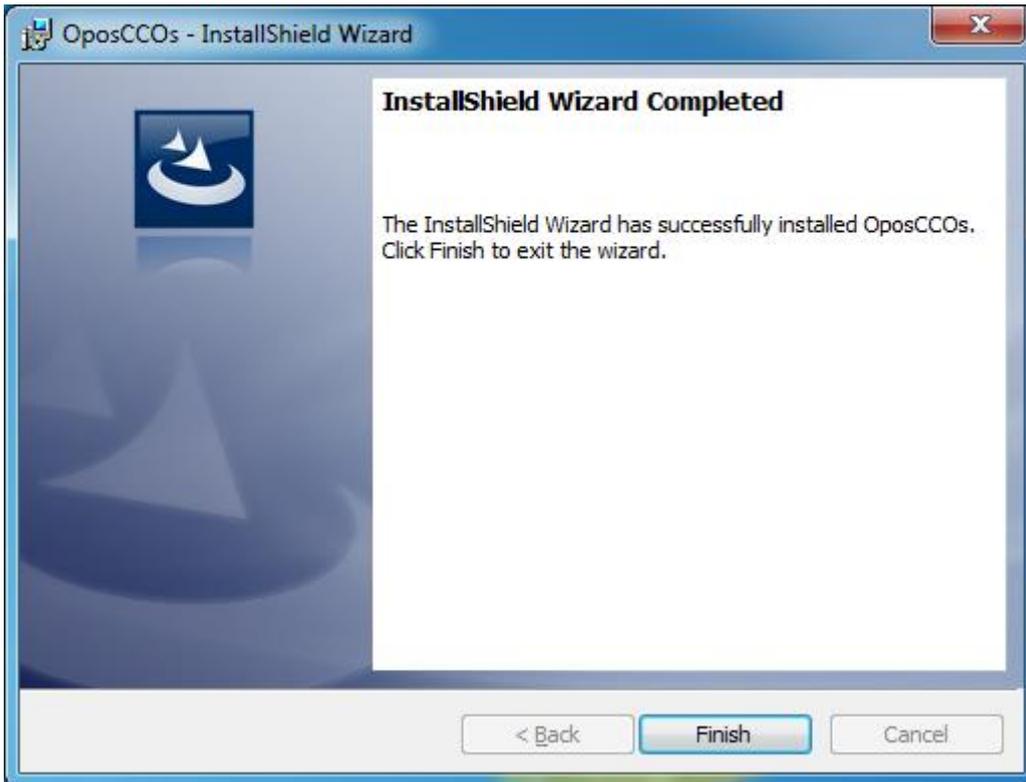
- Set up the install path for the program



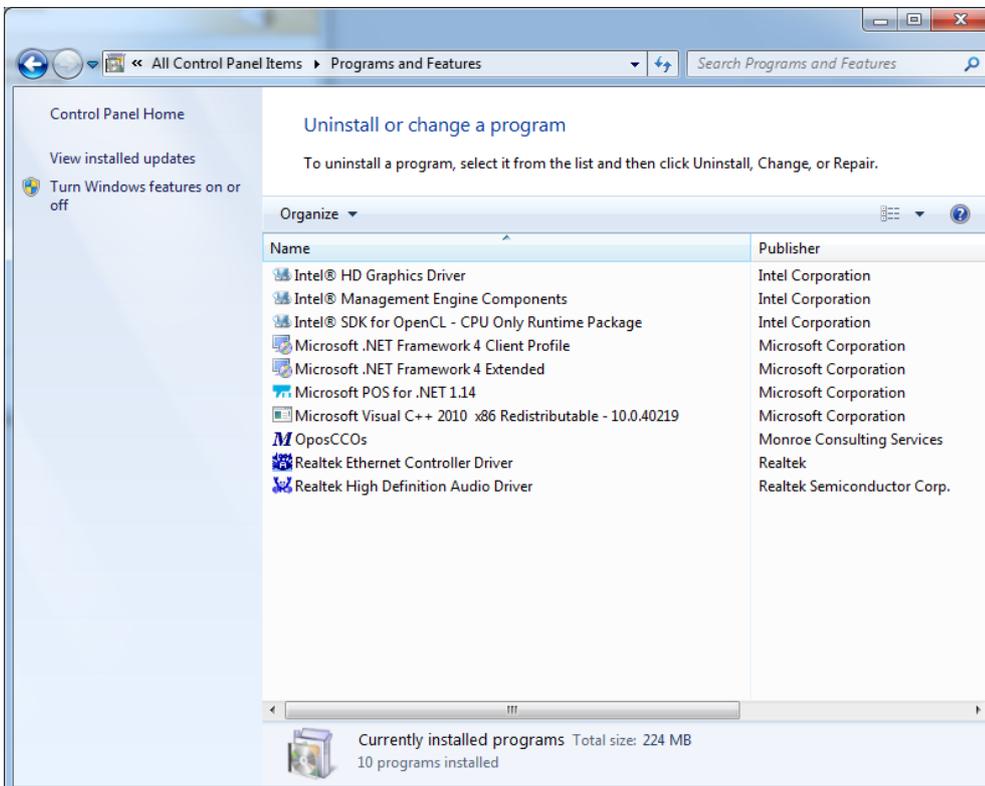
- Select setup type for complete



- Finish installation

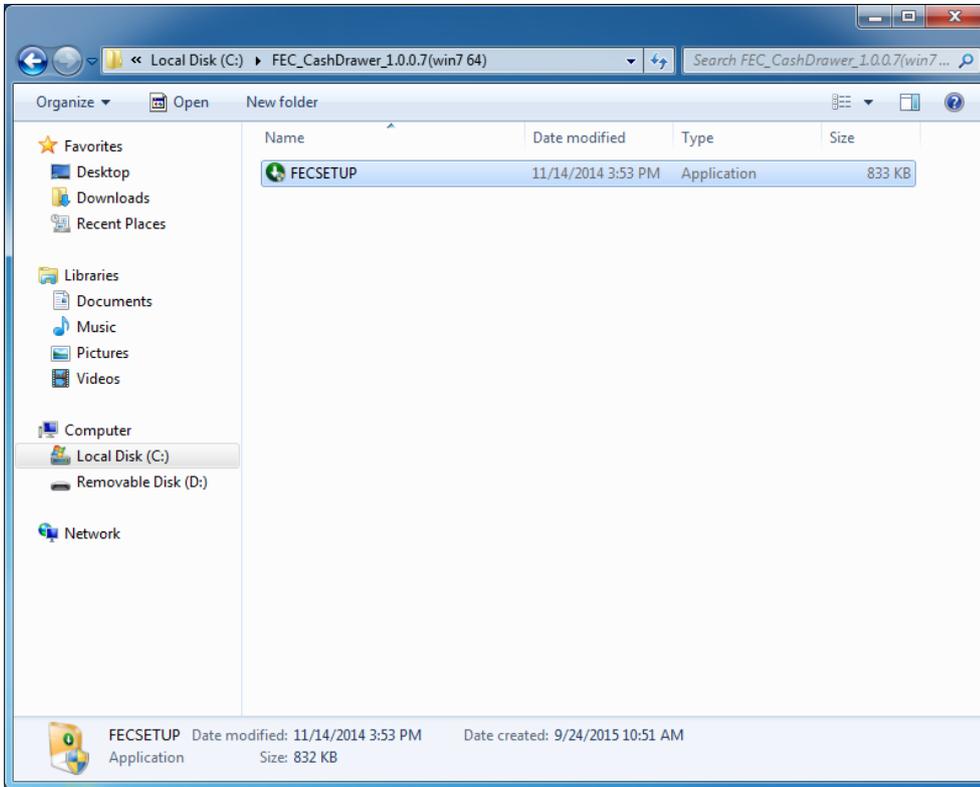


- Check CCOs has been installed



2.4. FEC OPOS Driver for VFD/LCM

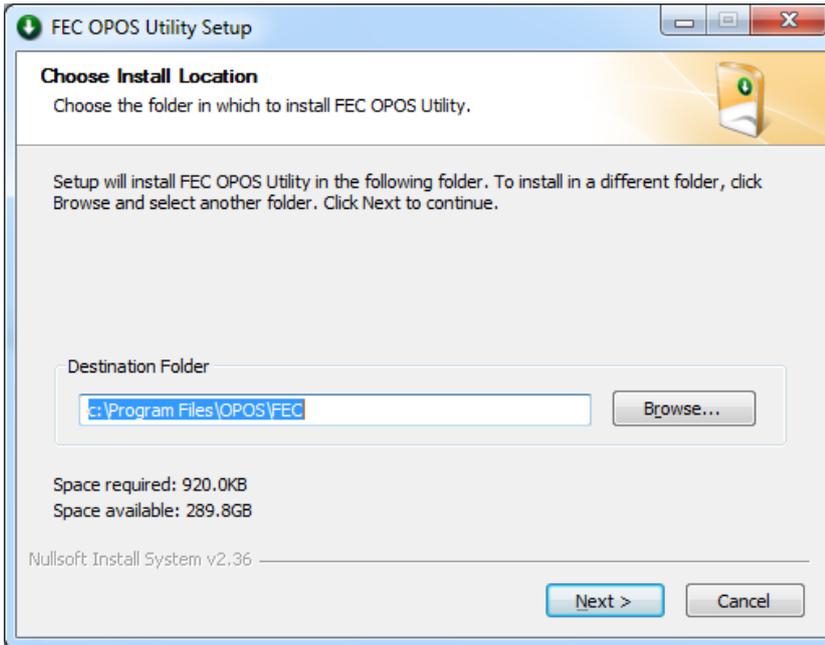
- Double-Click for FECSETUP of FEC_CashDrawer1.0.0.7(Win7 64) to begin install



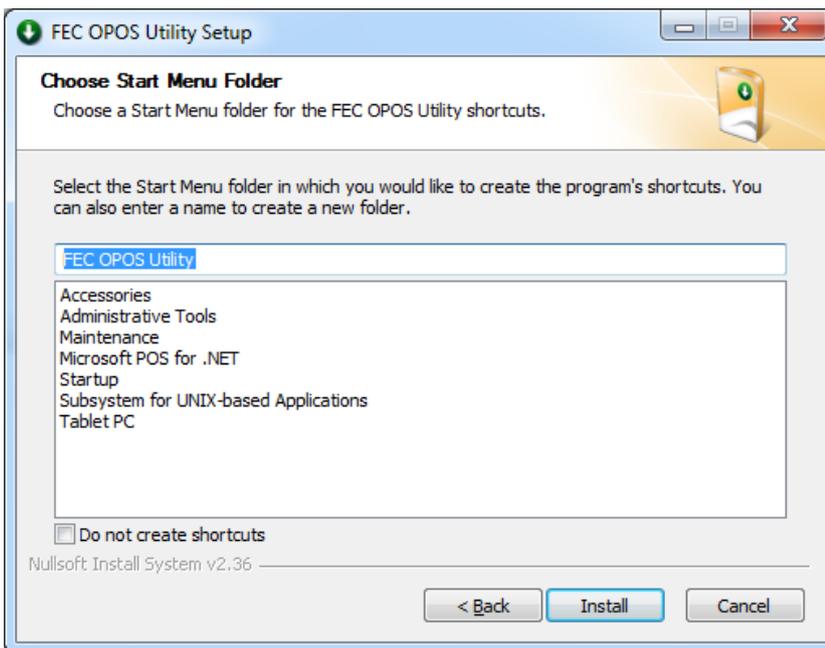
- Select Language for English



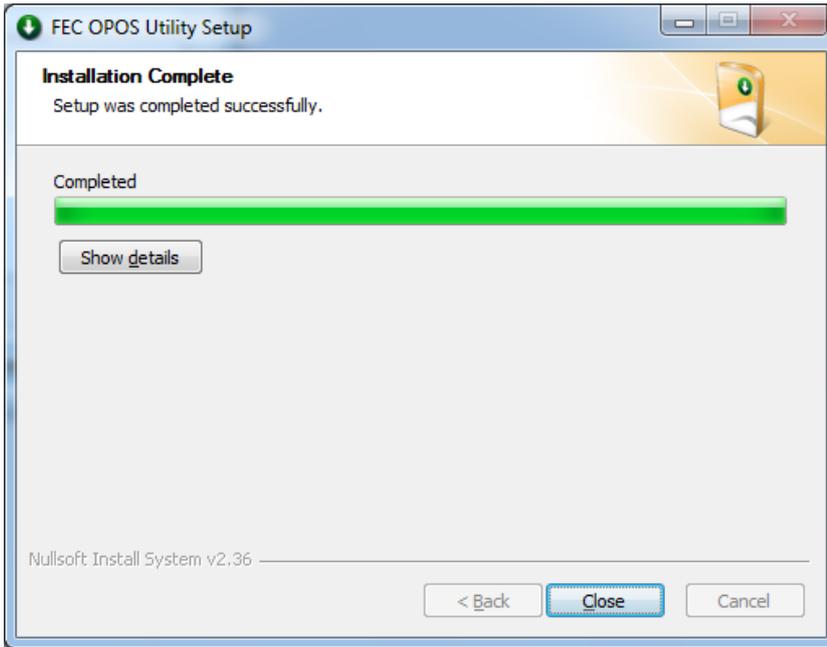
- Set up the install path for the program



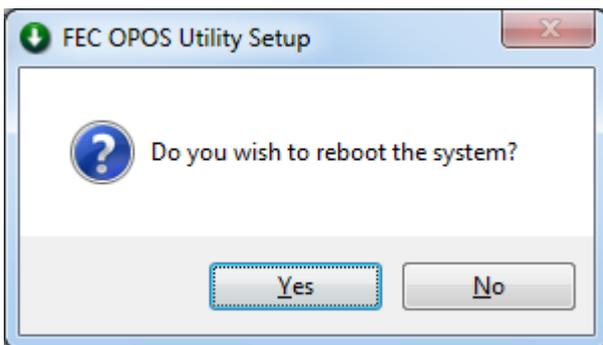
- Choose start menu folder



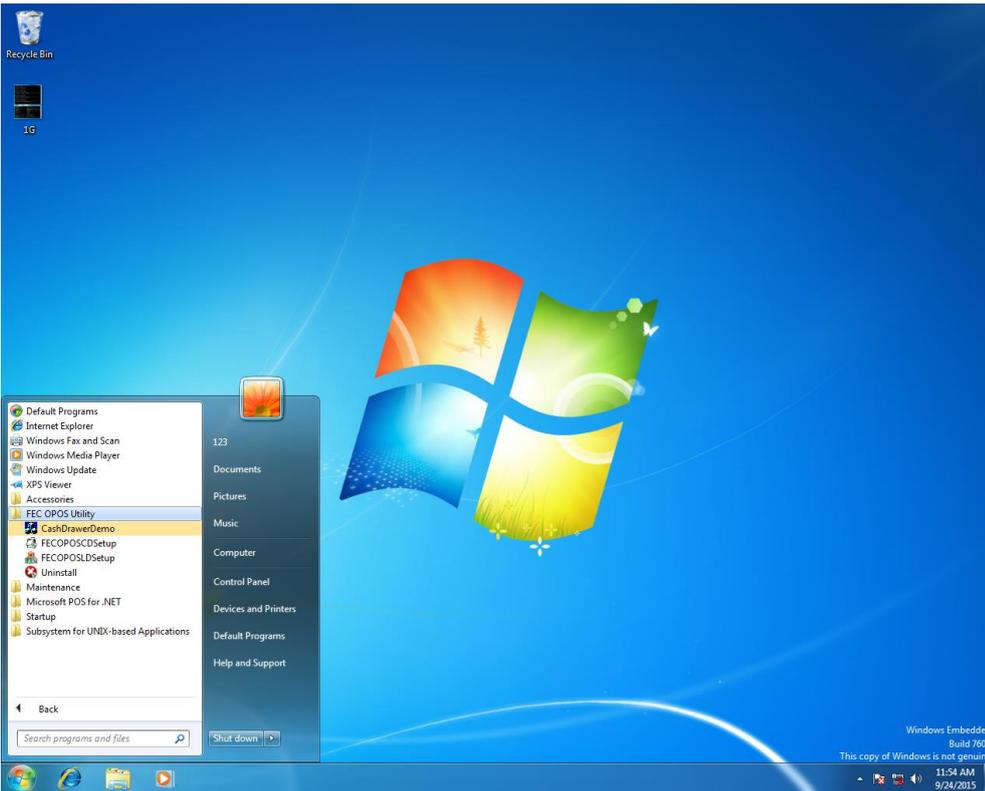
- Finish installation



- Request for Reboot Windows

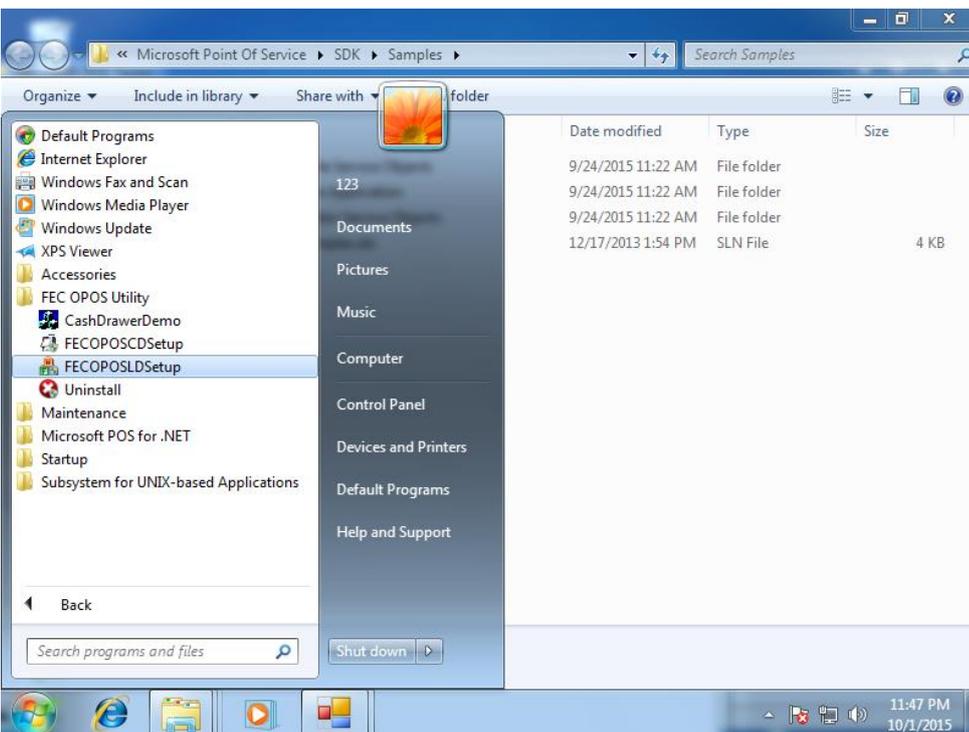


- Check FEC OPOS Driver has been installed

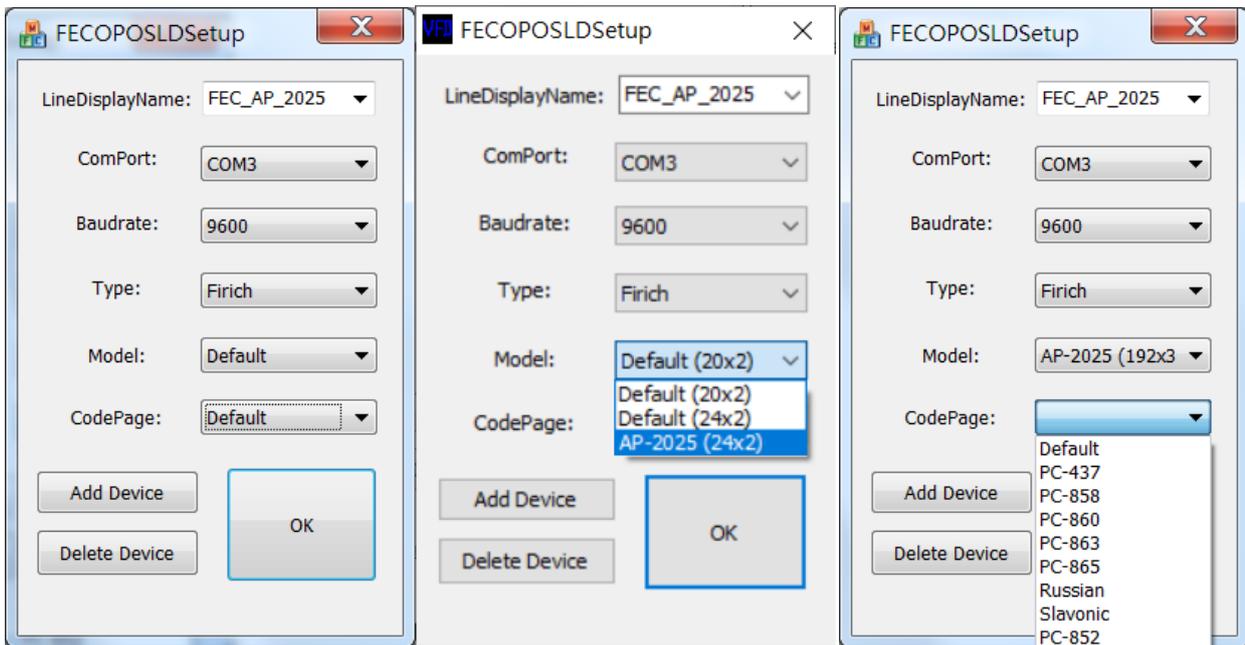


3. Setting up the VFD/LCM configuration

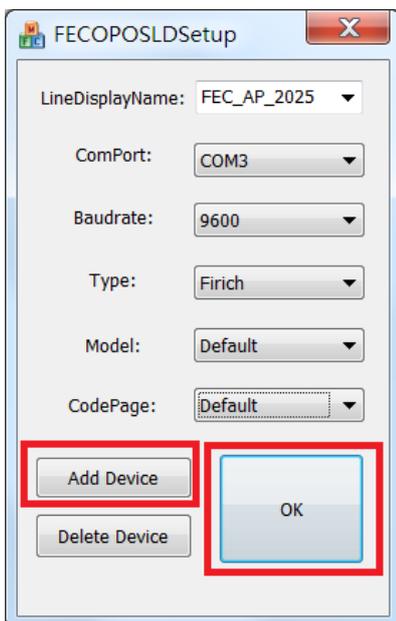
- Run FECOPOS Setup program for setting up cash drawer



- Modify LineDisplayName for new configuration of Line Display, and also set up parameter for COM Port, BaudRate, Type and Model.
- For the Model selection, currently only the 3rd model: “AP-2025(192x32 LCM)” support multiple codepages, if this model was been selected, the codepages in the “CodePage” combobox become selectable, otherwise please select the only option: Default” in the “CodePage” combobox.
- If you don’t know what Line Display model you’re using, please select the “Default 20x2” or “Default 24x2” in the combobox: “Model”.
- Press “Add Device” button to add configuration, and Press “OK Button” to exit

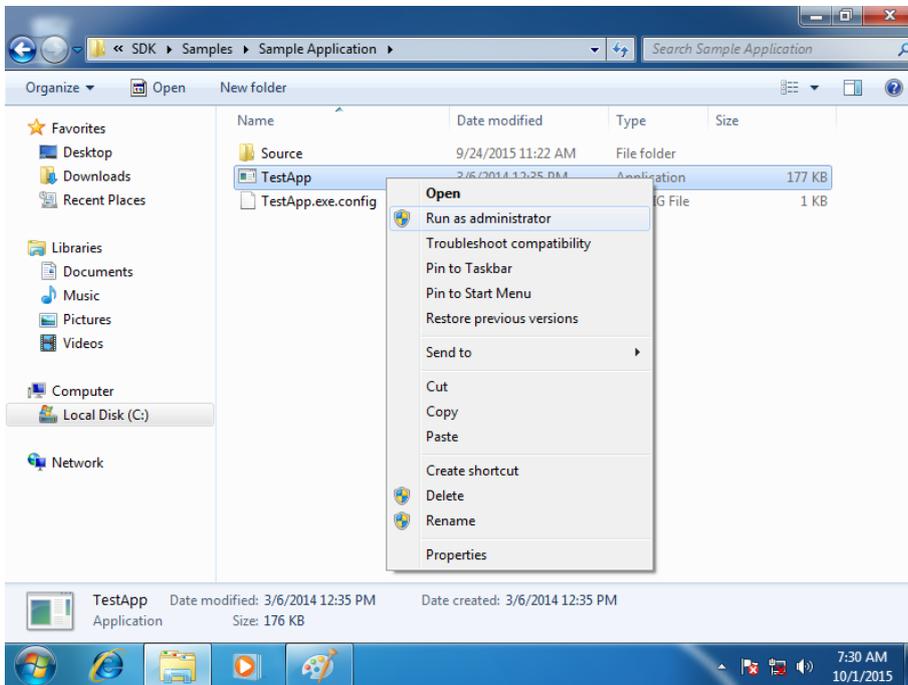


- Press “Add Device” button to add configuration, and Press “OK Button” to exit



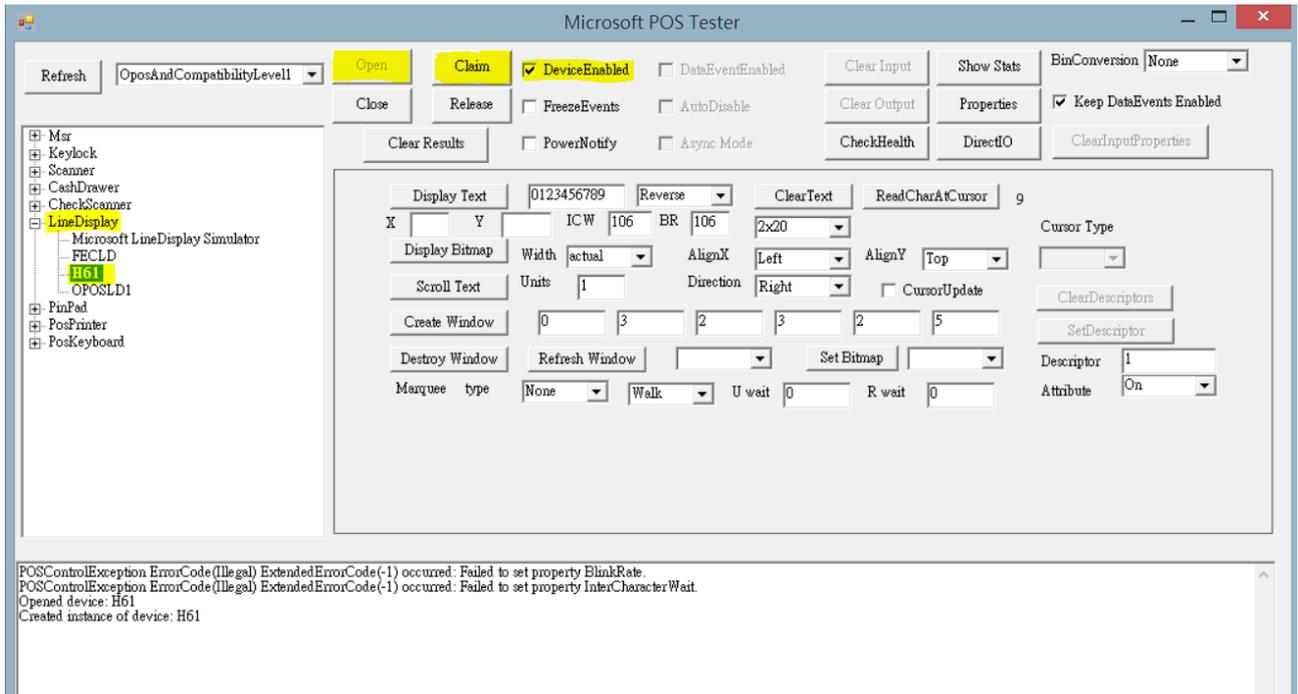
4. How to test the VFD/LCM by POS for .Net TestAPP

- Run TestApp program for testing VFD/LCM with administrator permission



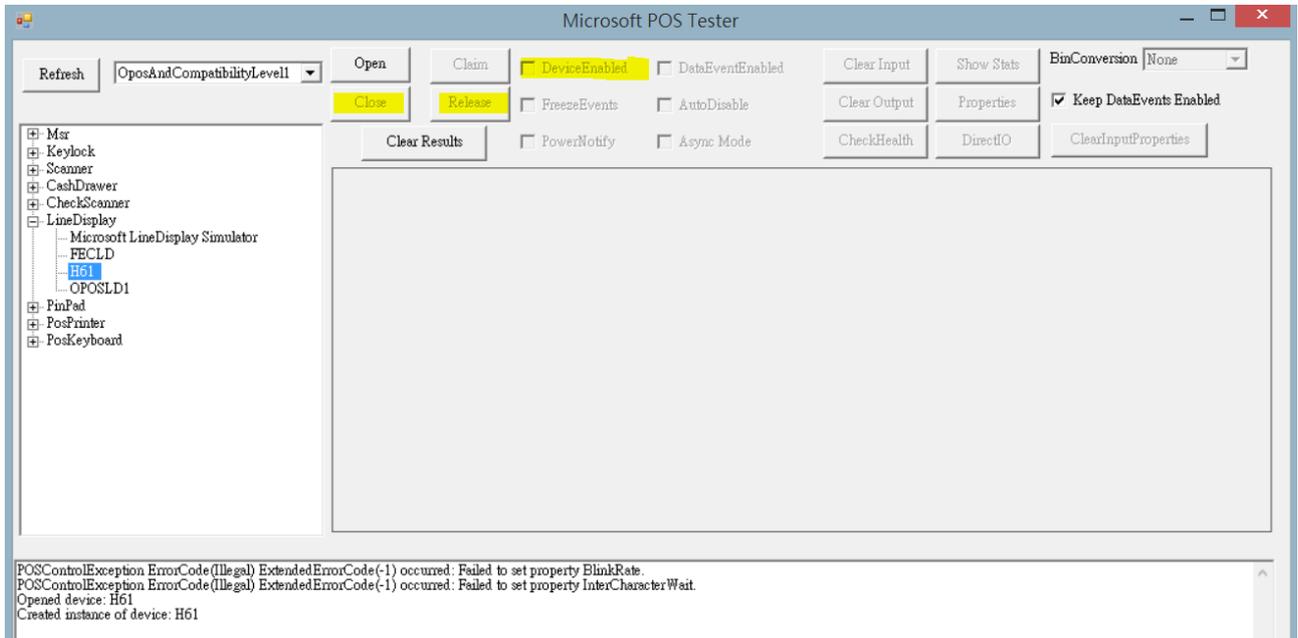
4.1. Initialize

- Select device for VFD/LCM setting
- Continued according to press “Open” and “Claim” button and then checked DeviceEnabled check box to initialize VFD/LCM OPOS driver



4.2. Terminate

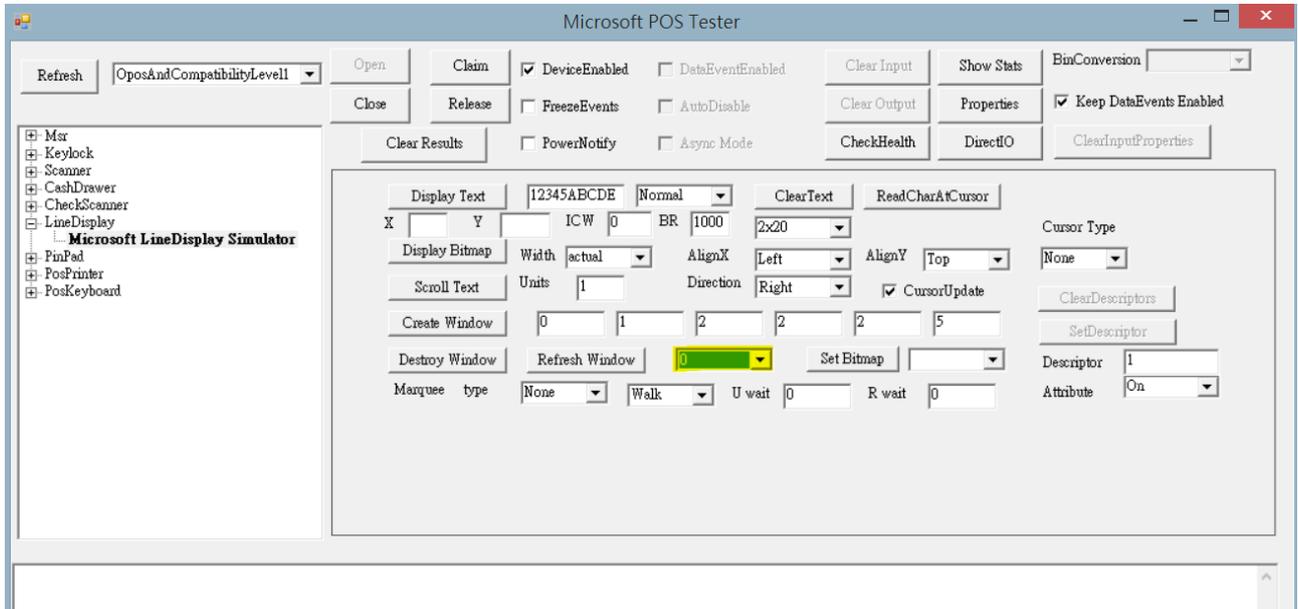
Continued according to un-check DeviceEnabled check box, and then press “Release” and “Close” to terminate VFD/LCM OPOS driver



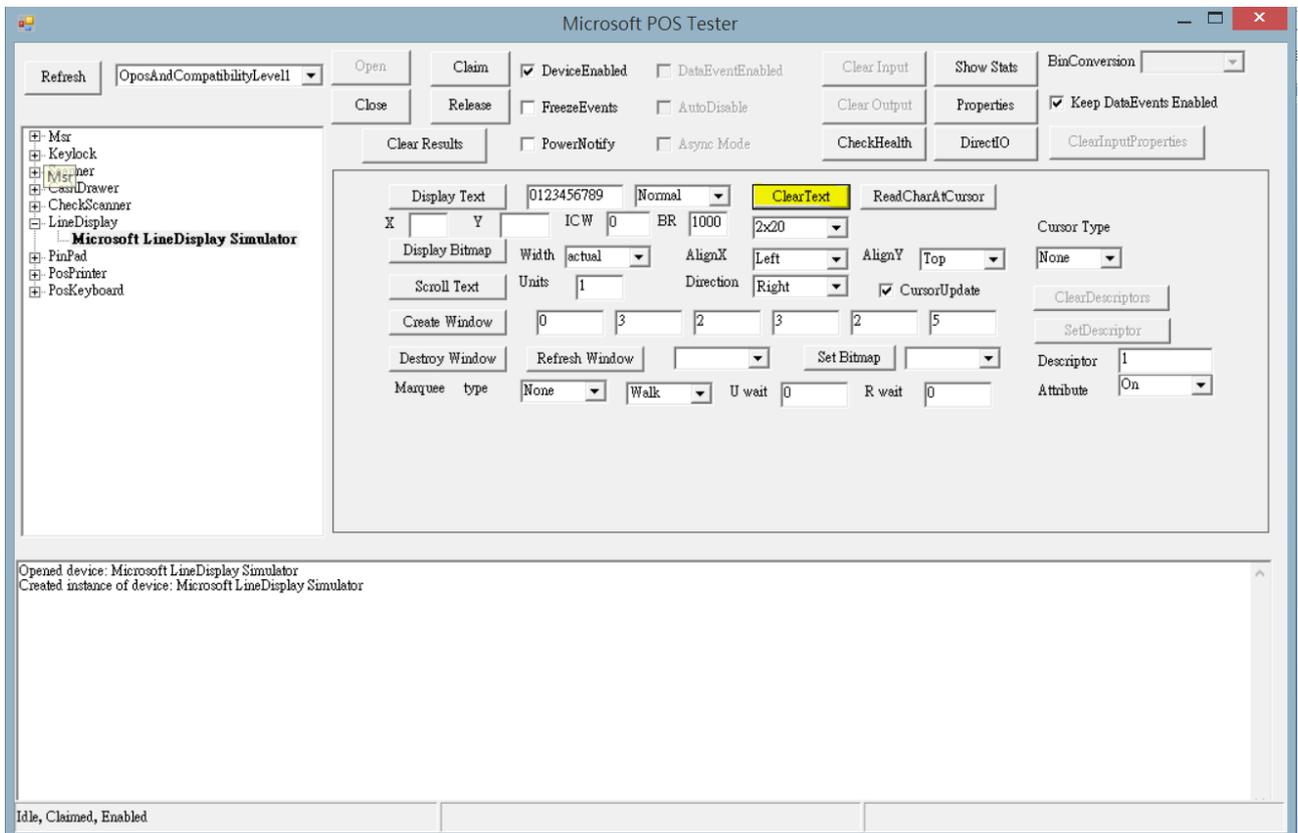
4.3. Display Text

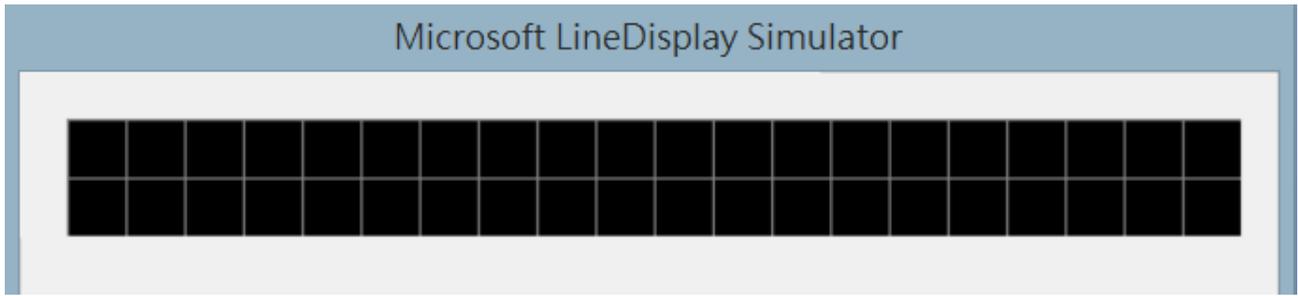
4.3.1. Set Current Window

Sets the current window display to be operated



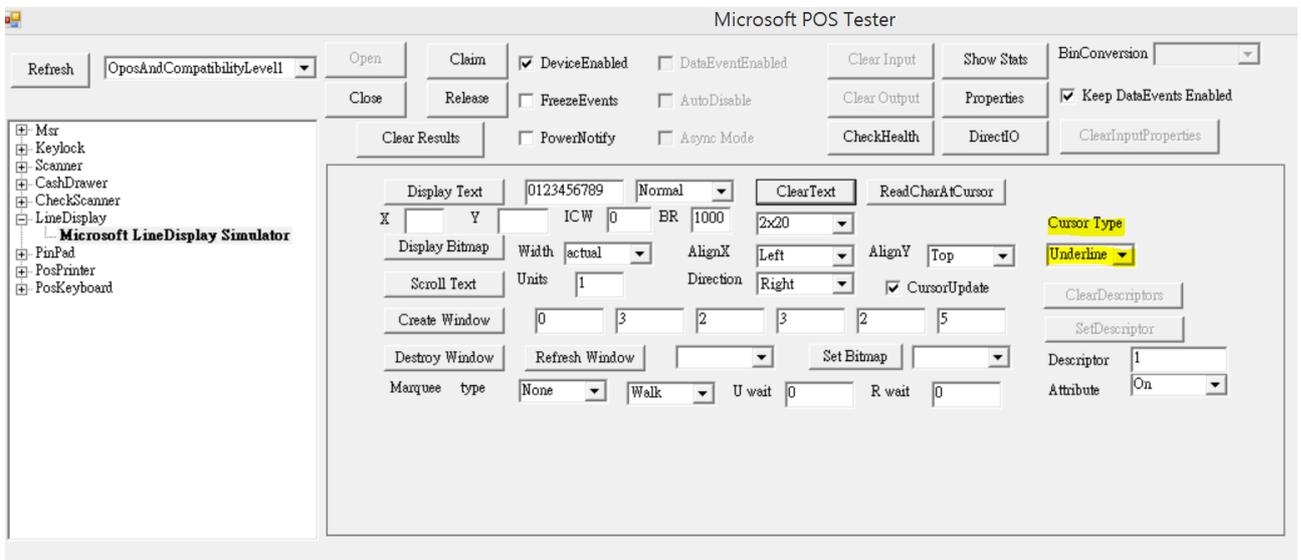
4.3.2. Clear Text



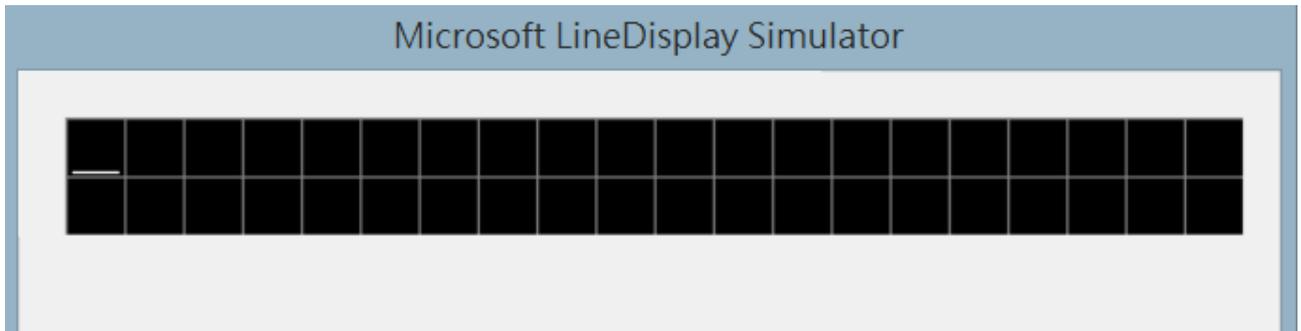


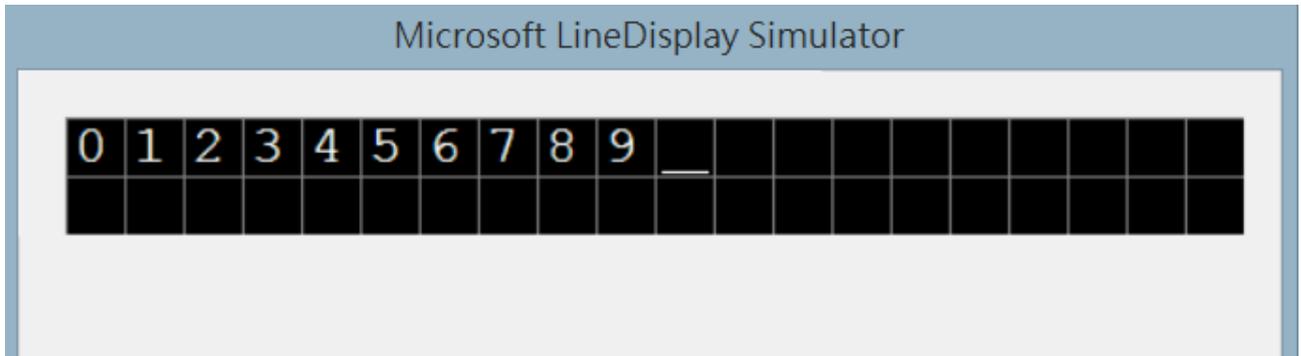
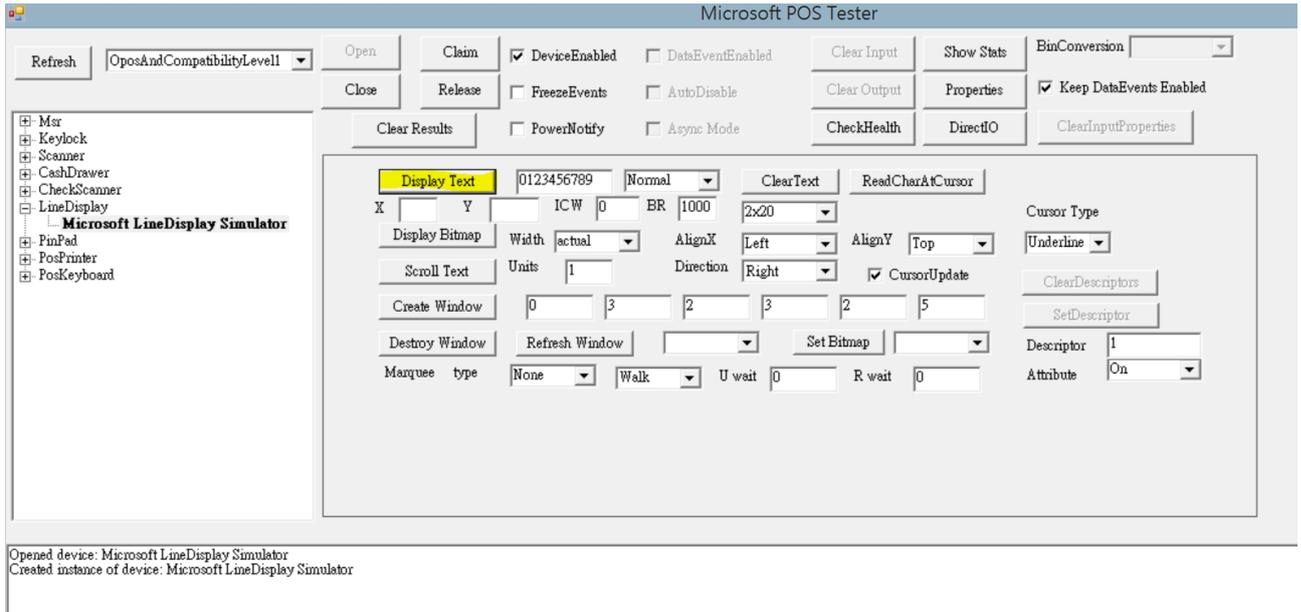
4.3.3. Display Text for Position

- Show text by current cursor position

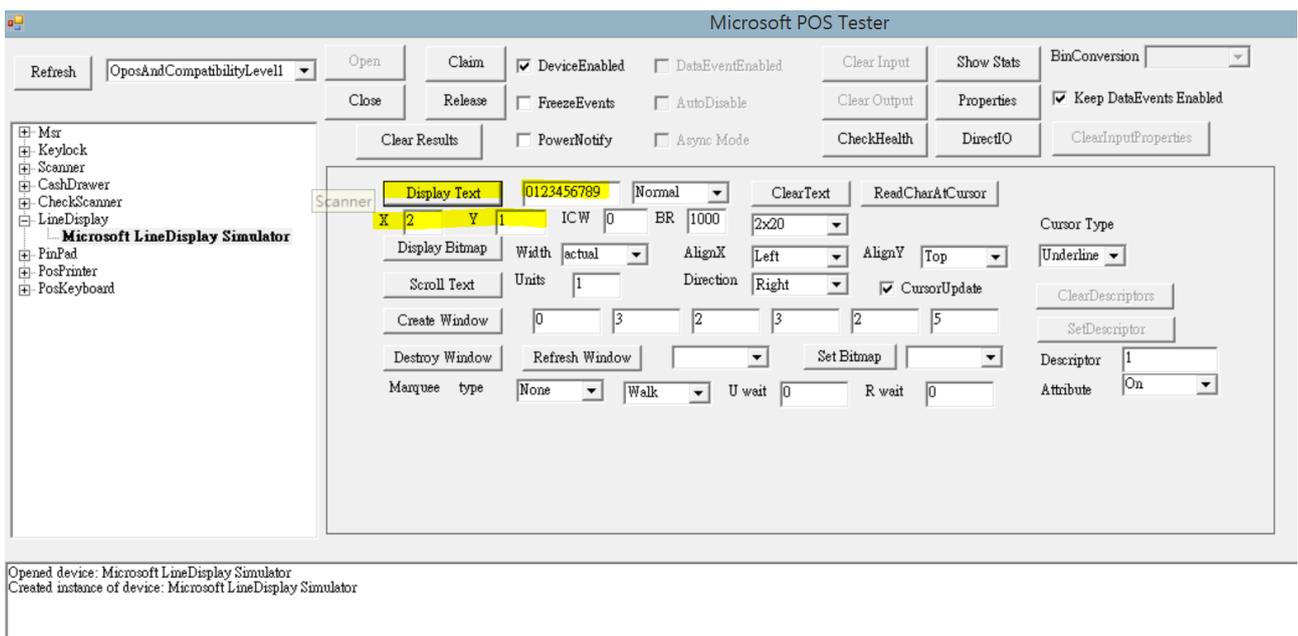


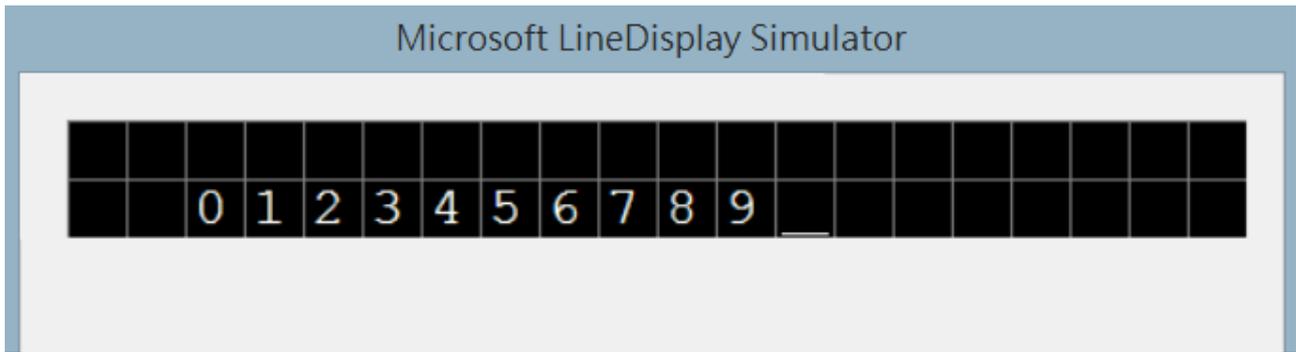
Opened device: Microsoft LineDisplay Simulator
Created instance of device: Microsoft LineDisplay Simulator





● Show Text by specific position

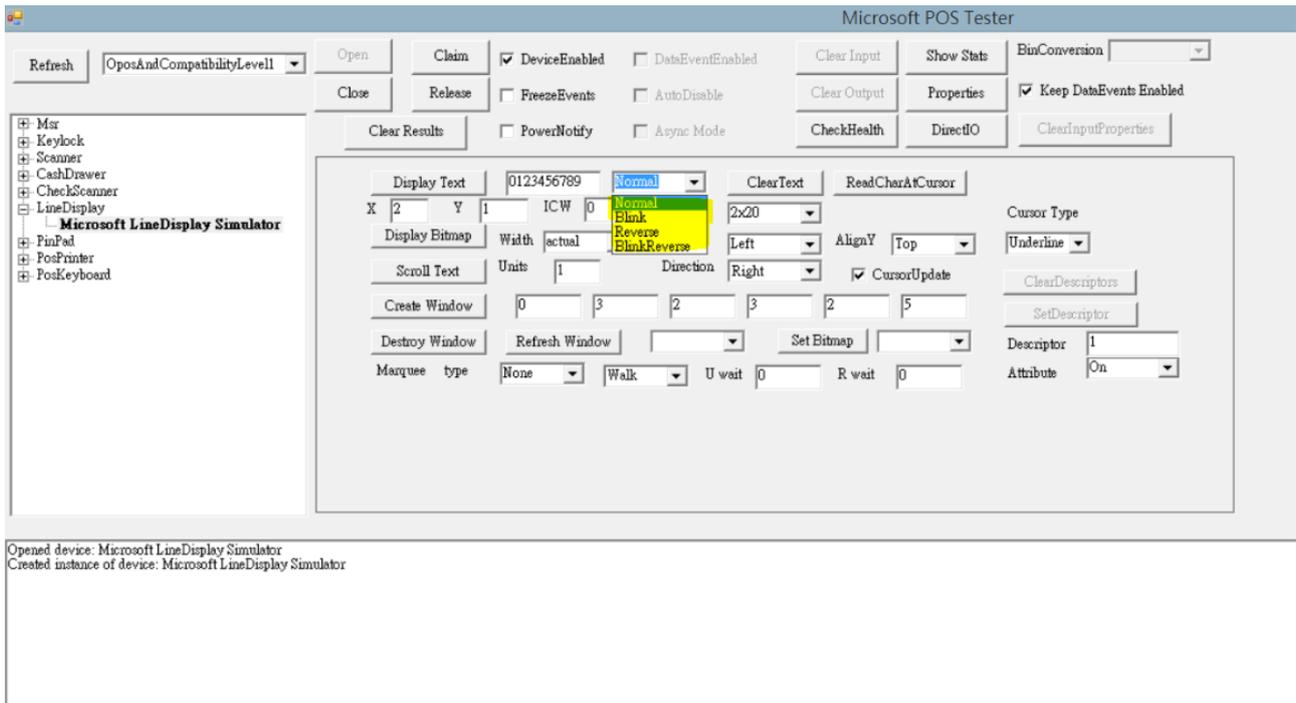




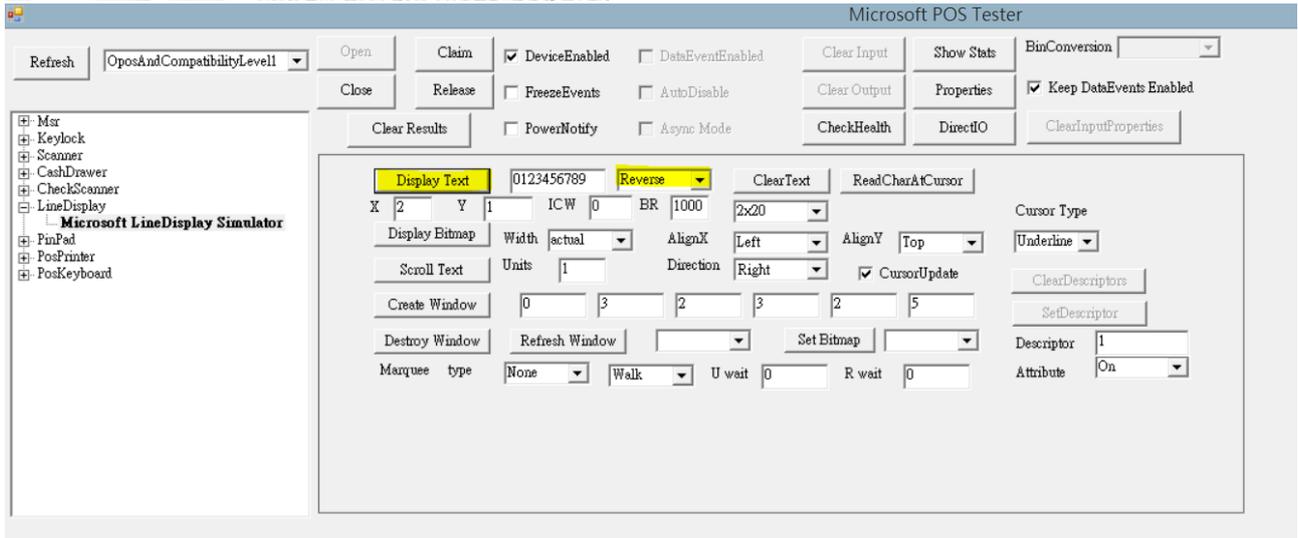
4.3.4. Display Effect Type

- Normal
- Blink & Blink Rate (Not support yet)
- Reverse
- Reverse & Blink (Not support yet)

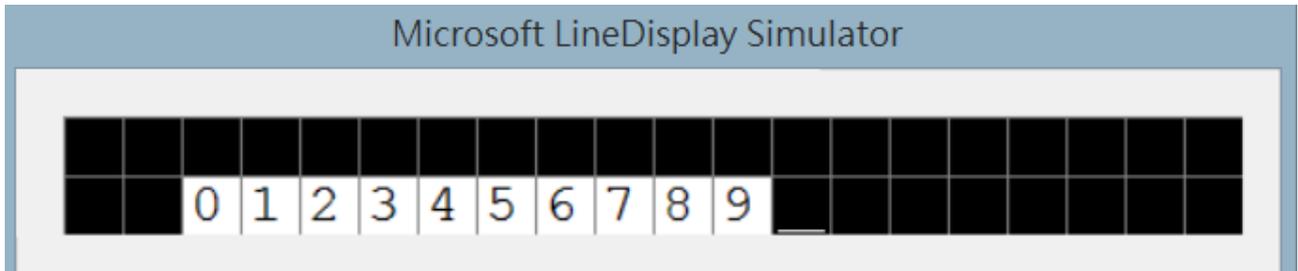
Select Display Type First for Normal, Blink, Reverse and Reverse & Blink First



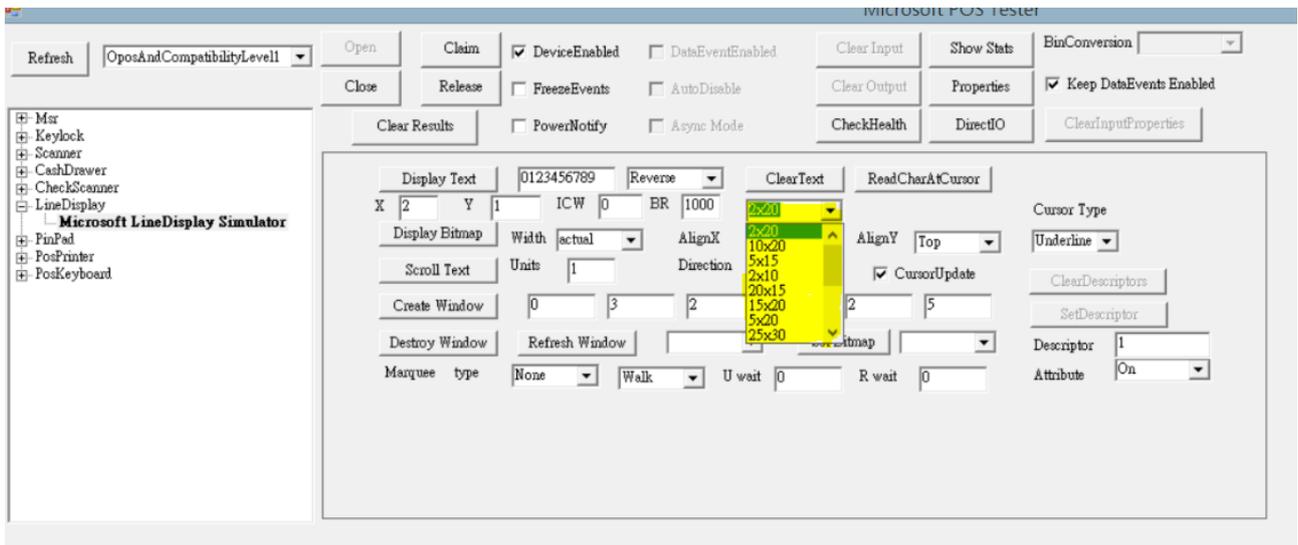
And then press display text button to showed text with effect type



Opened device: Microsoft LineDisplay Simulator
Created instance of device: Microsoft LineDisplay Simulator



4.3.5. Screen Resolution (Not Support Yet)

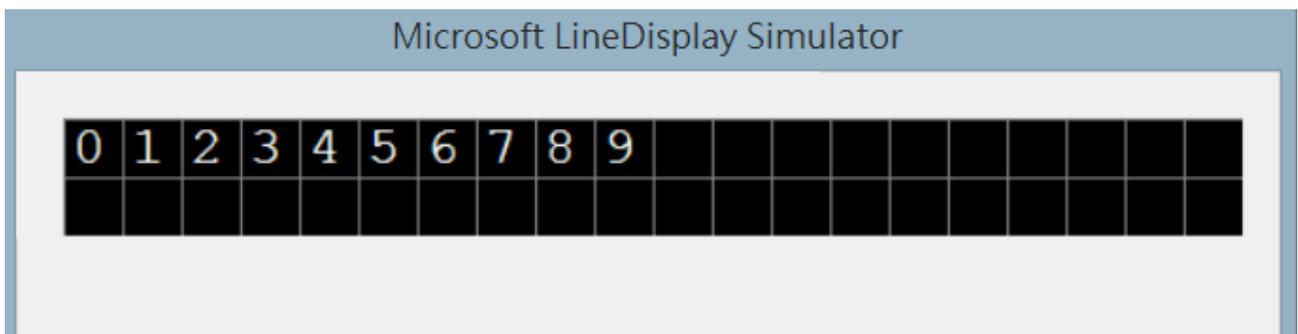
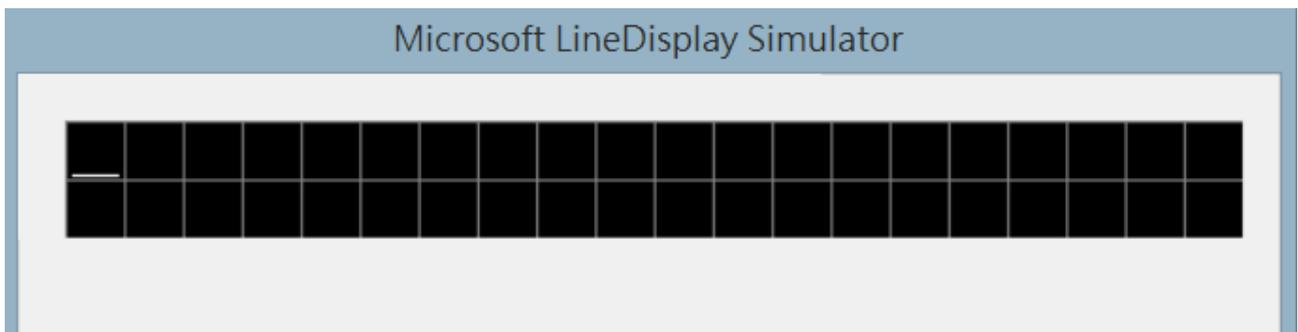
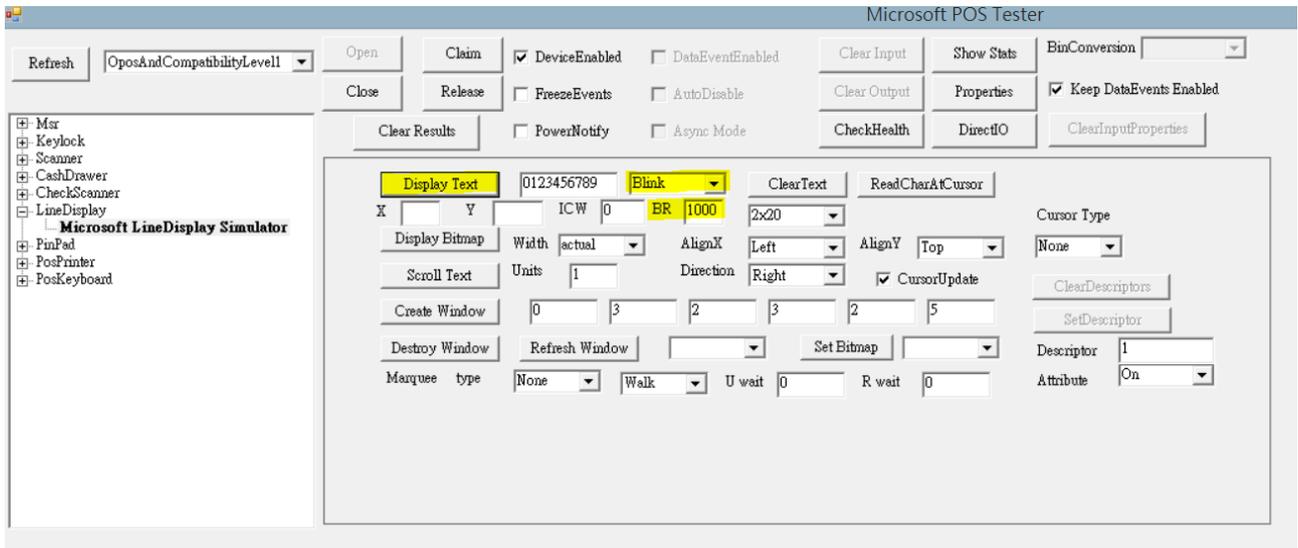


Opened device: Microsoft LineDisplay Simulator
Created instance of device: Microsoft LineDisplay Simulator

4.3.6. Blink Rate (Not Support Yet)

Blink time for displayed ON/OFF interval

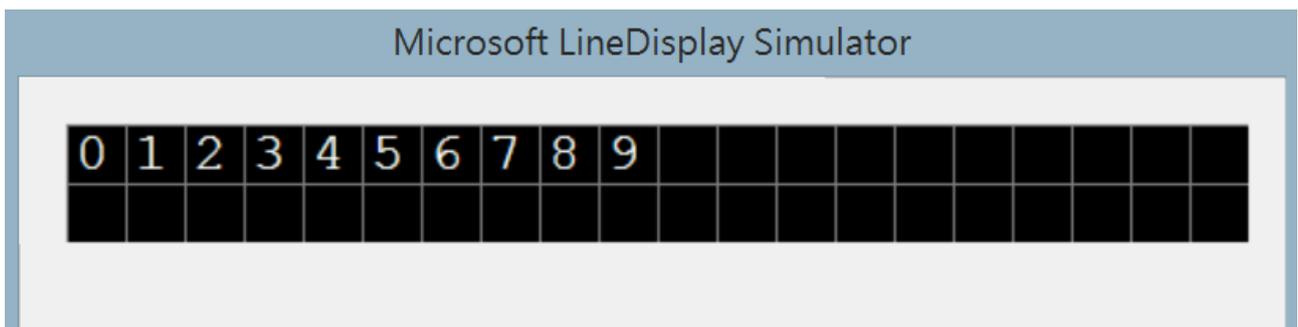
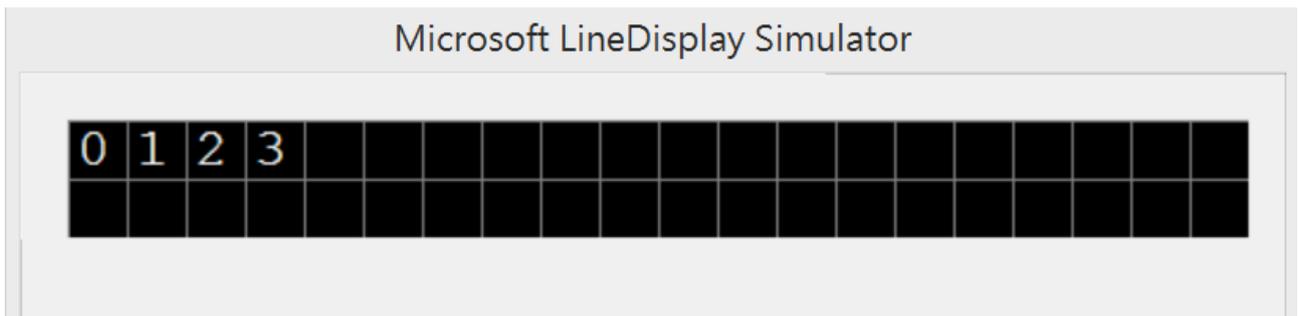
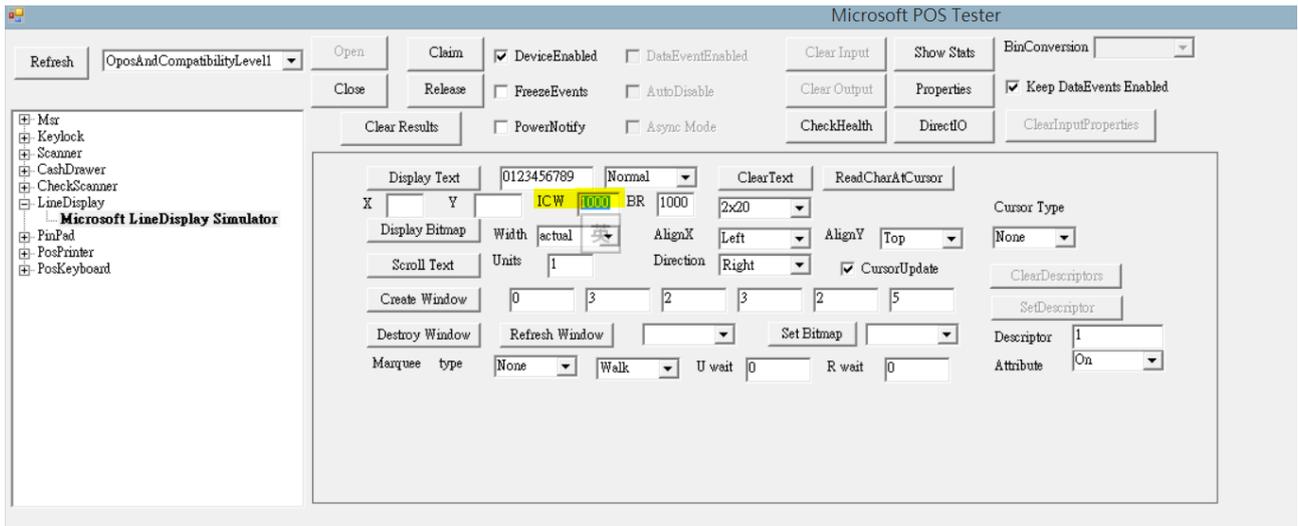
1. Set blink time interval (ex:1000=1s)
2. Press Display Text button to showed text with blink effect



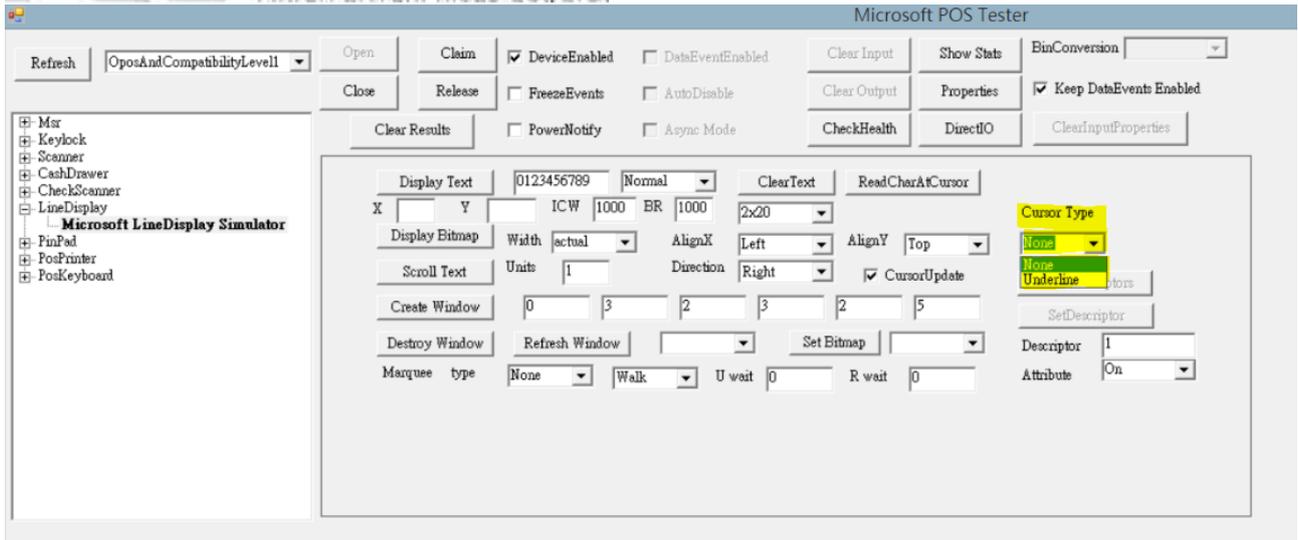
4.3.7.ICW Function (Inter-Character Wait) (Not Support Yet)

Delay waiting time for Inter-Character display

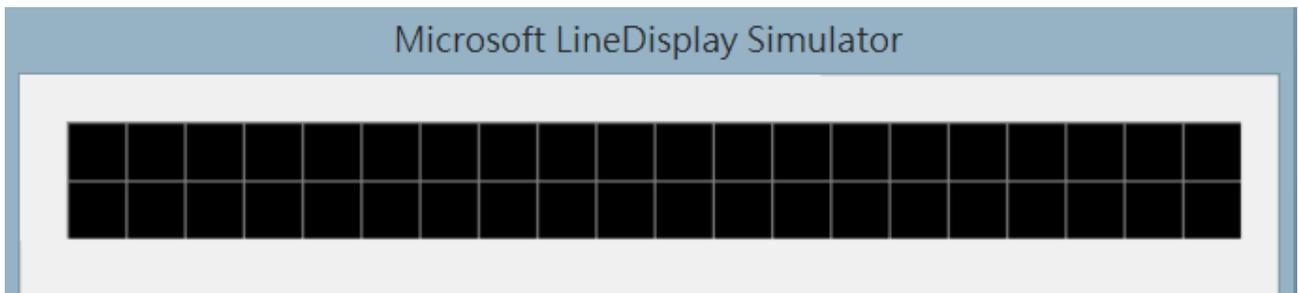
1. Set ICW interval for Inter-Character delay time (ex:1000=1s)
2. Press Display Text button to showed text with Inter-Character effect



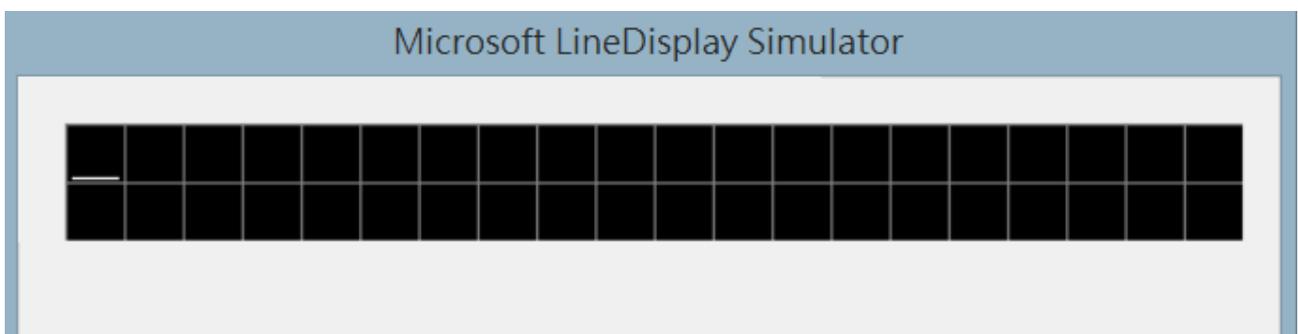
4.4. Cursor Type (Not Support Yet)



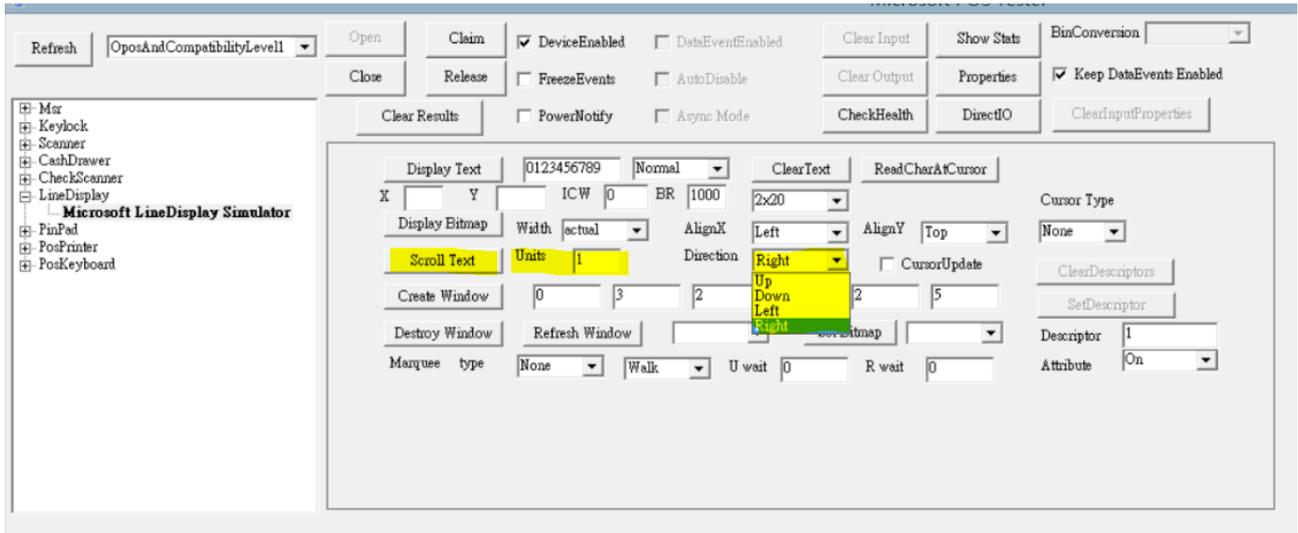
None



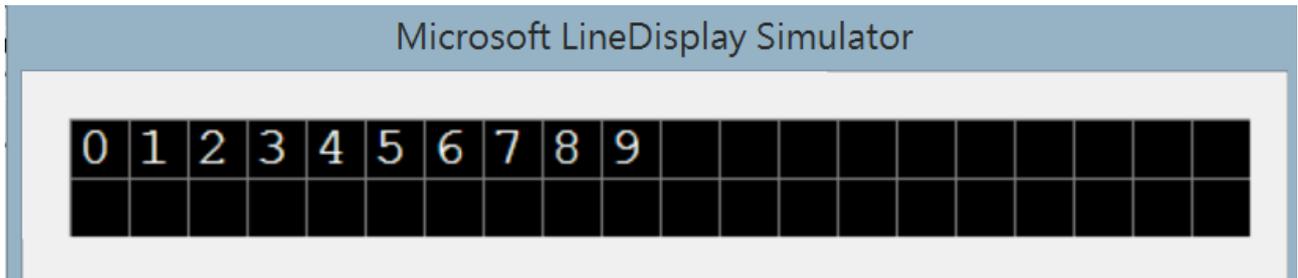
Underline



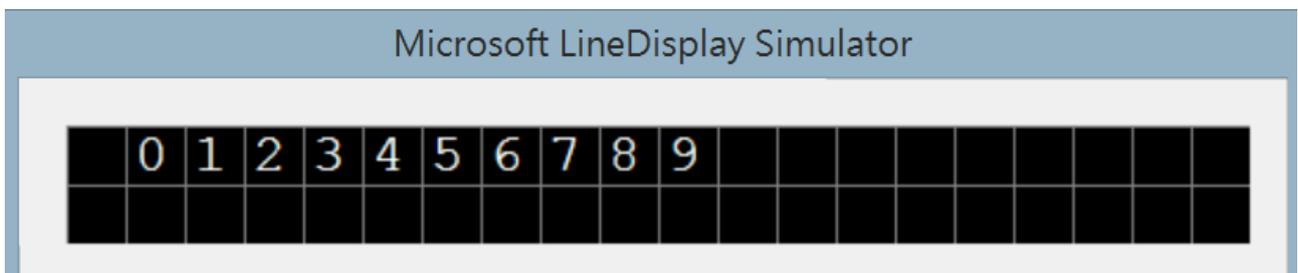
4.5. Scroll Text



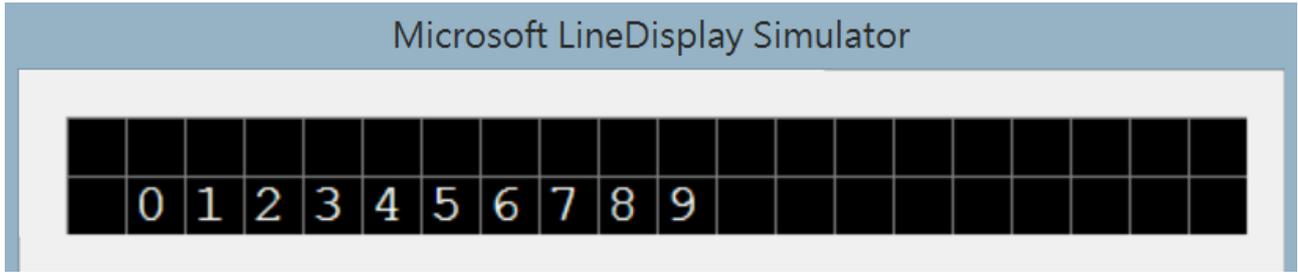
Display Text



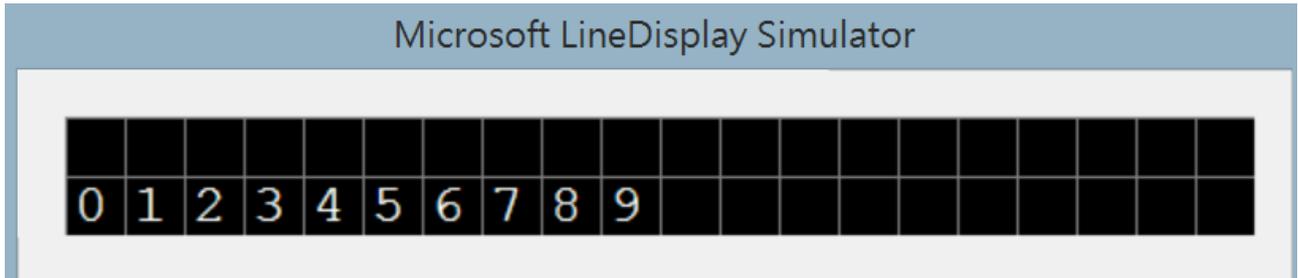
Right



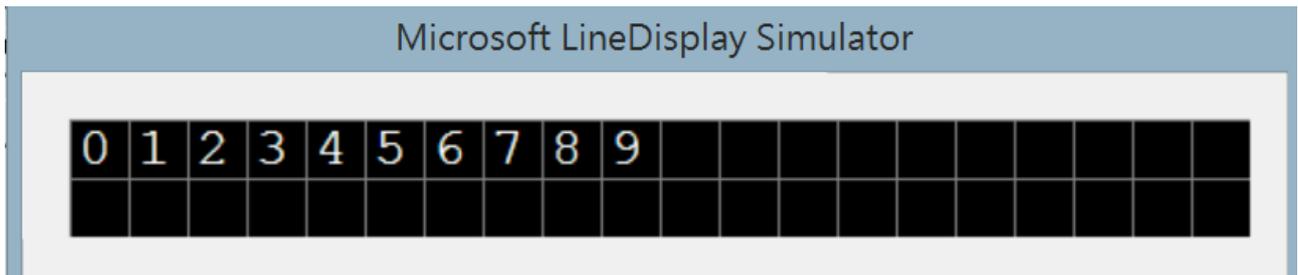
Down



Left



Up



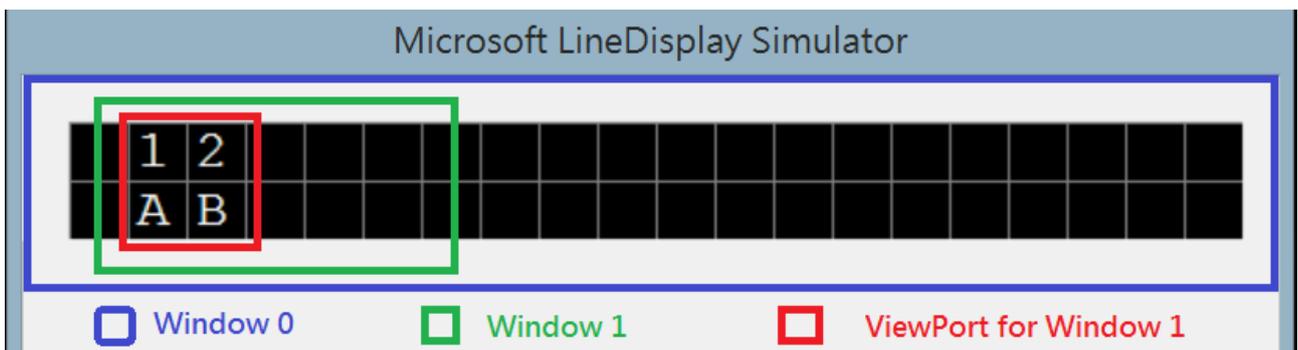
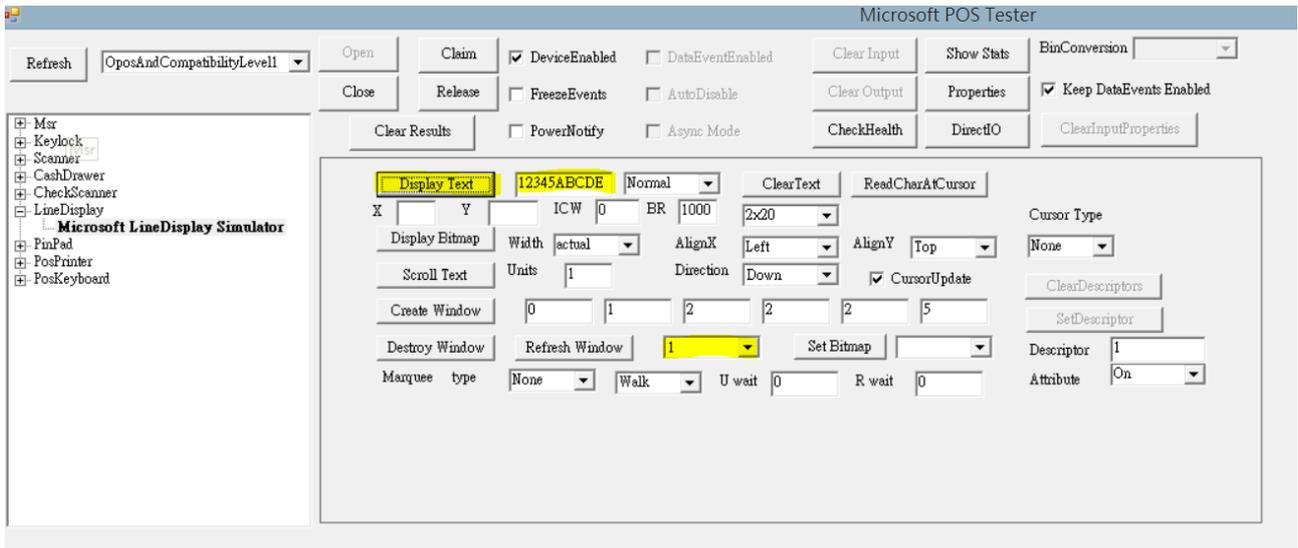
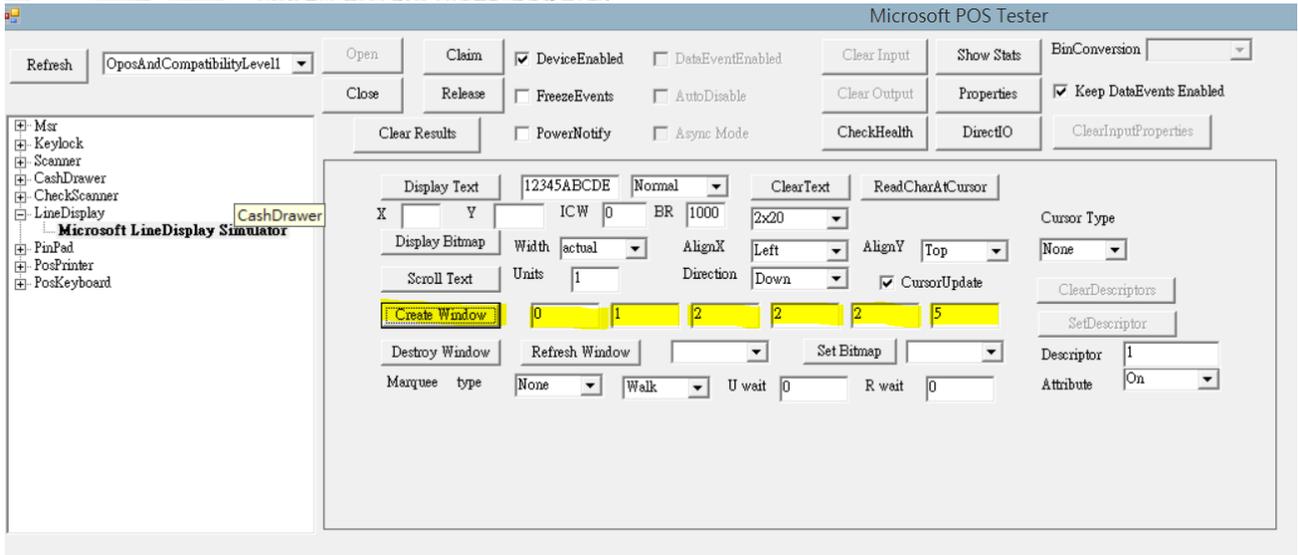
4.6. Window

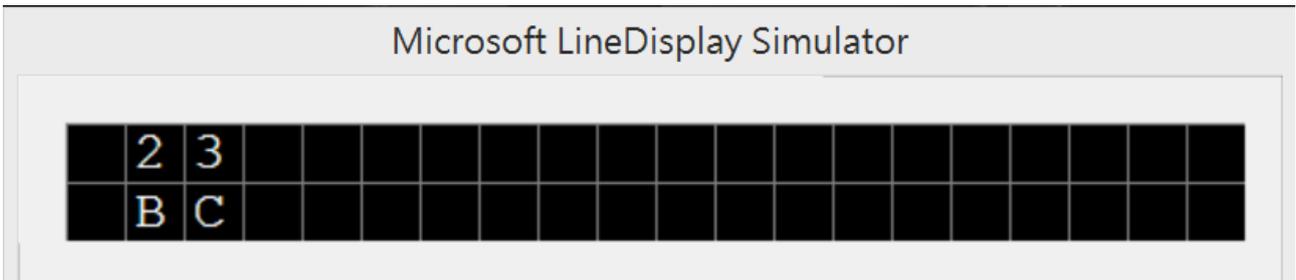
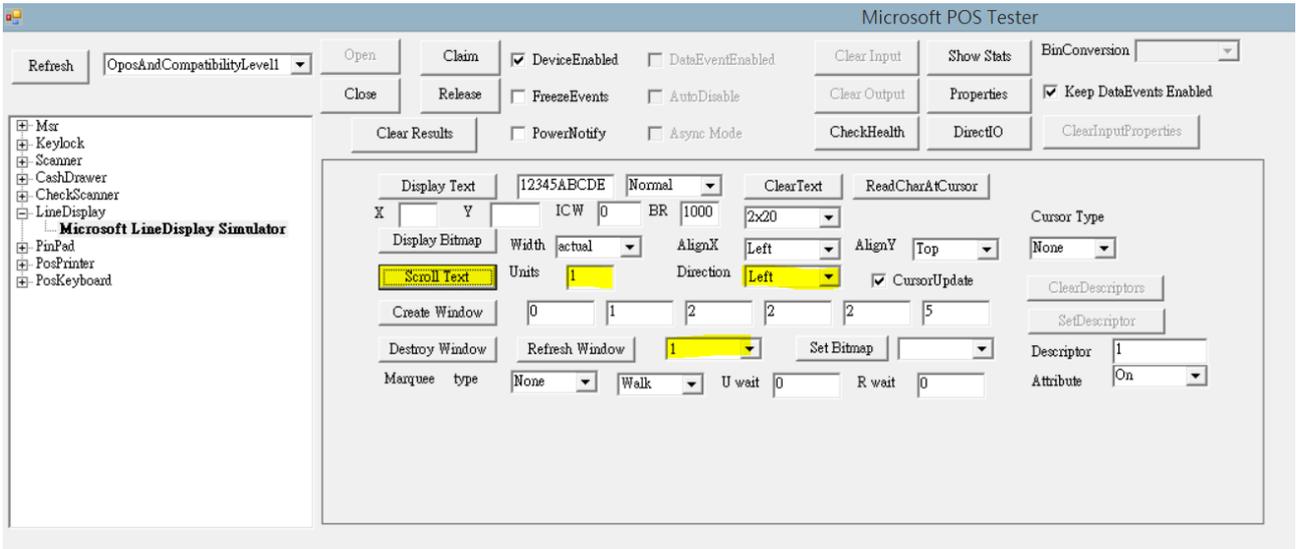
4.6.1. Create Window

Example: ViewportColumn = 0, ViewportROW= 1

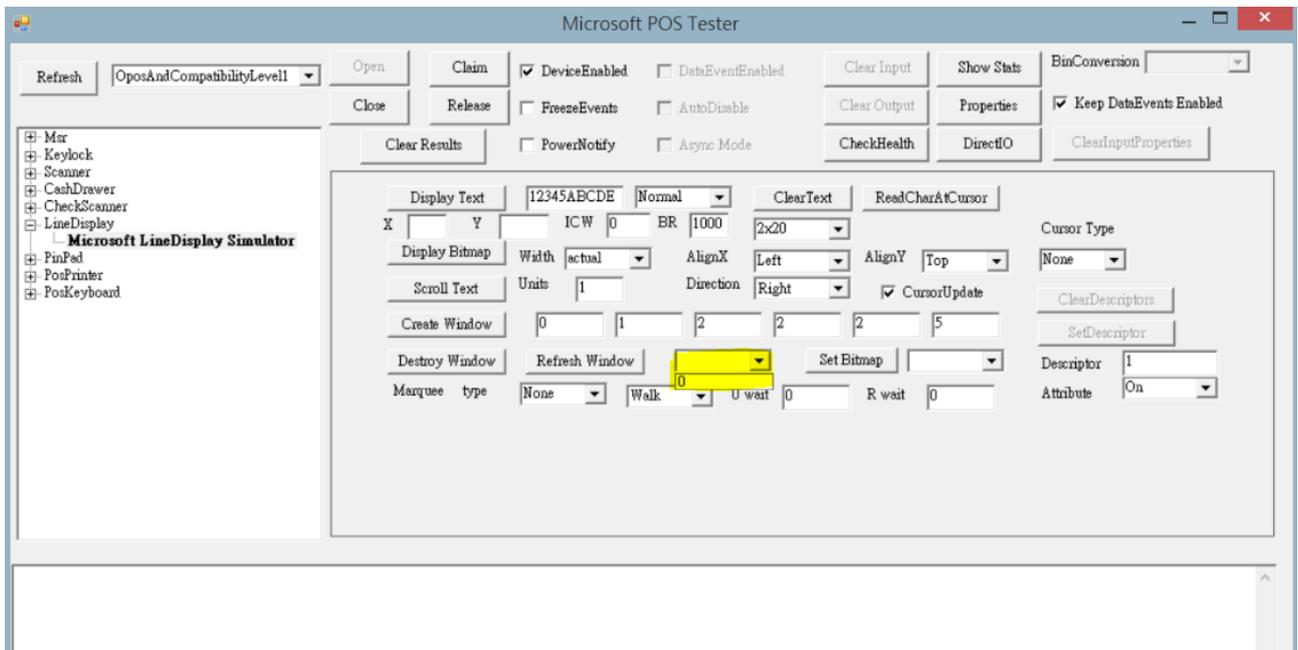
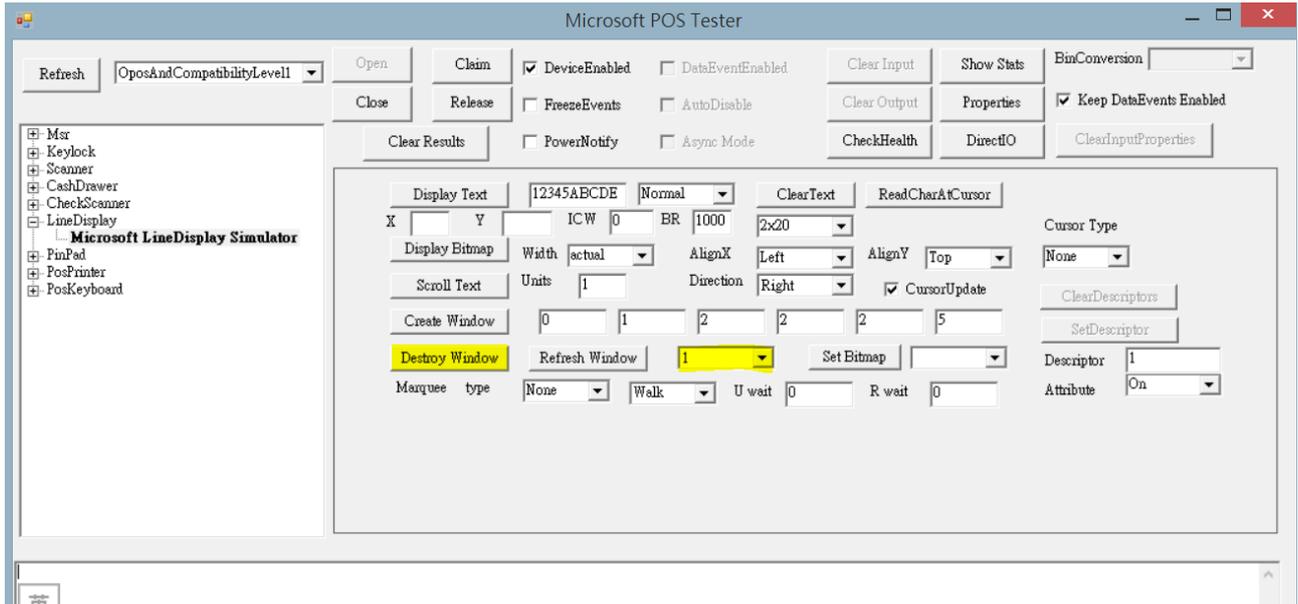
ViewportHeight = 2, ViewportWidth= 2

WindowHeight = 2, WindowWidth = 5

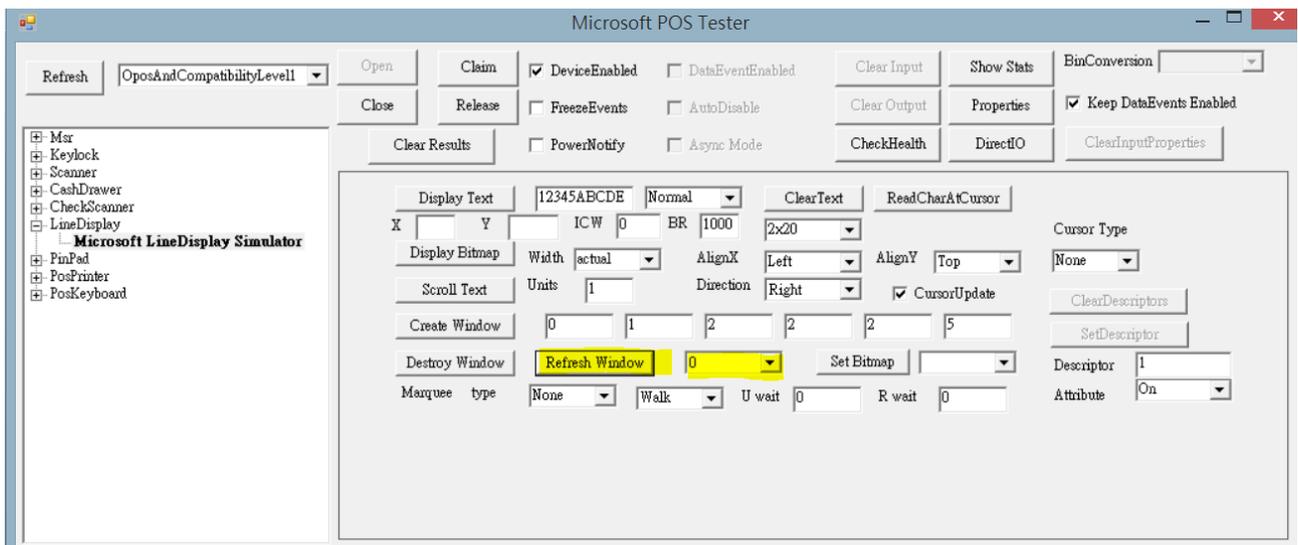
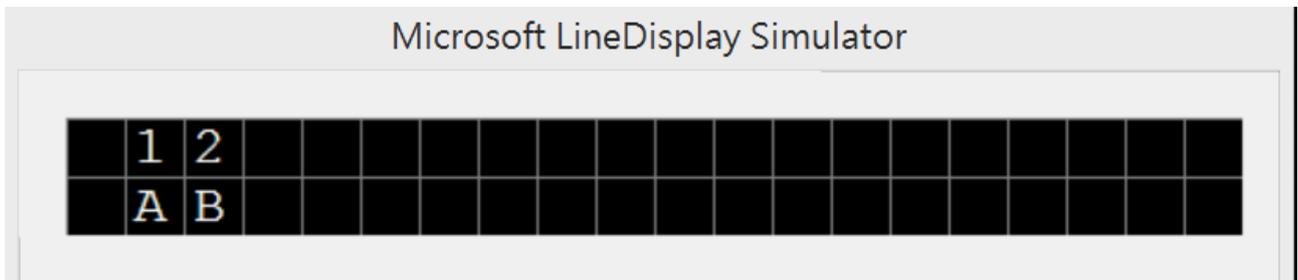
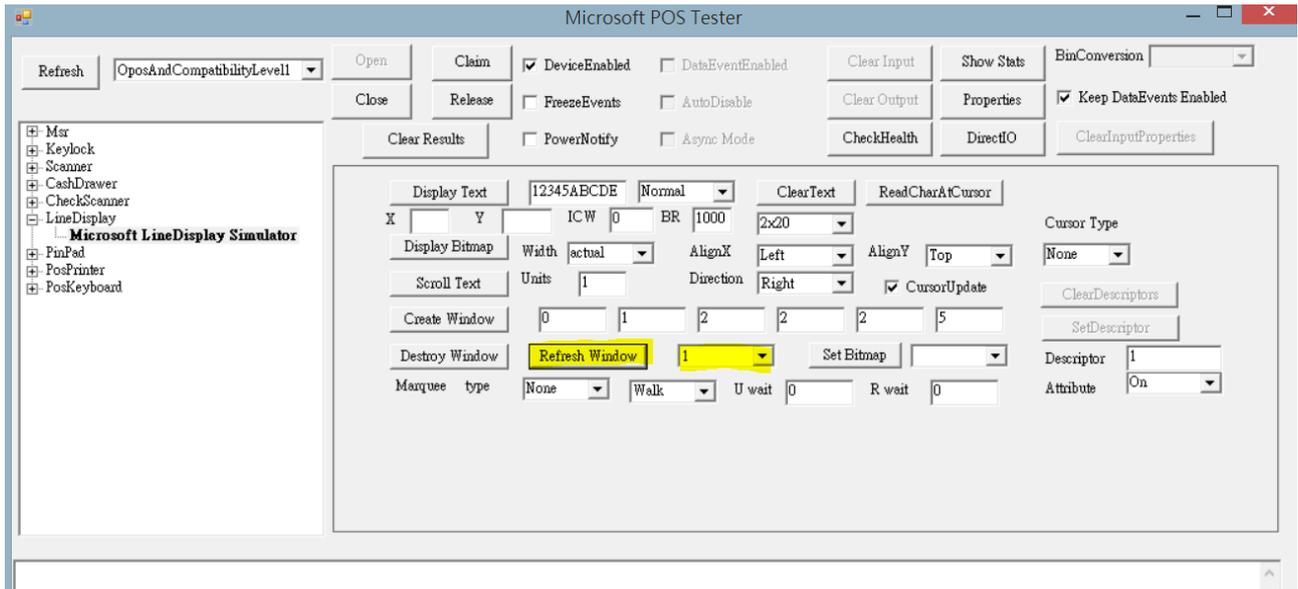


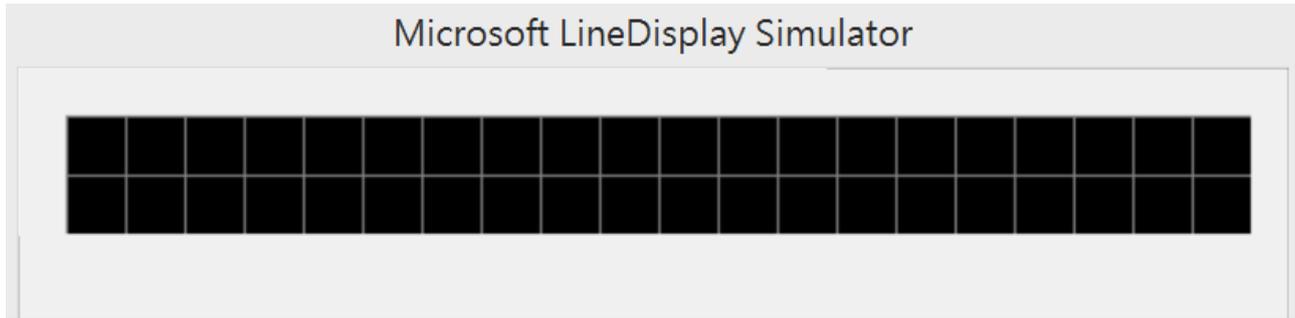


4.6.2. Destory Window



4.6.3.Refresh Window





4.6.4. Set Current Window

