

# eYs3D Microelectronics, Co. 鈺立微電子

## Windows Application eDepthPresence Quick User Manual

July. 13, 2018; Rev.07

### 1. Purpose

To provide a simple description of how to use each of the available functions in eDepthPresence application.

### 2. Depth module setup with eDepthPresence,v1.0.0.15!

- Connect depth module (for example [eAP87003C](#); [eAP87606B00/C01/D01](#)) to computer USB port so that Windows OS can recognize a USB device has been connected.
  - Please help to confirm your USB port is USB3.0 or USB2.0
- a. USB3.0 (For [eAP87606B00/C01/D01](#))

Please help to check “eDepthPresence.prj” file and see the parameters:

[DefaultDepthWidth = 1280](#)

[DefaultDepthHeight = 720](#)

[DefaultDepthType = 4](#)

```
[CommonParameter]
DefaultColorWidth = 1280
DefaultColorHeight = 720
DefaultDepthWidth = 1280
DefaultDepthHeight = 720
; [depth type] 1 : 8bits, 2 : 14bits, 3 : 8bits+0x80, 4 : 11bits
DefaultDepthType = 4
DistanceMeterMethod = 0
DepthAvgBlockSize = 6

[CollisionWarning]
ActualThresholdNearDistance = 50
ActualThresholdFarDistance = 100
RatioNear = 204
RatioFar = 128
```

b. USB2.0 (For [eAP87003C](#))

Please help to check “eDepthPresence.prj” file and see the parameters:

[DefaultDepthWidth = 320](#)

[DefaultDepthHeight = 480](#)

[DefaultDepthType = 1](#)

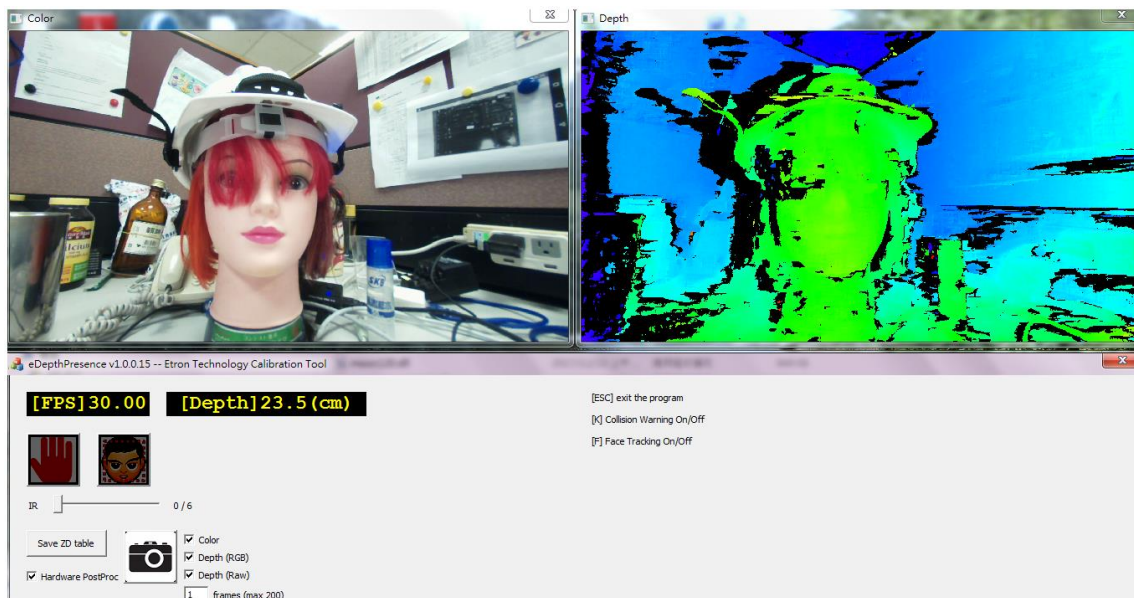
```
[CommonParameter]
DefaultColorWidth = 640
DefaultColorHeight = 480
; [image type] 0 : YUYV, 1: MJPEG
DefaultImageType = 0;
DefaultDepthWidth = 320
DefaultDepthHeight = 480
; [depth type] 1 : 8bits, 2 : 14bits, 3 : 8bits+0x80, 4 : 11bits
DefaultDepthType = 1
DistanceMeterMethod = 0
DepthAvgBlockSize = 6
```

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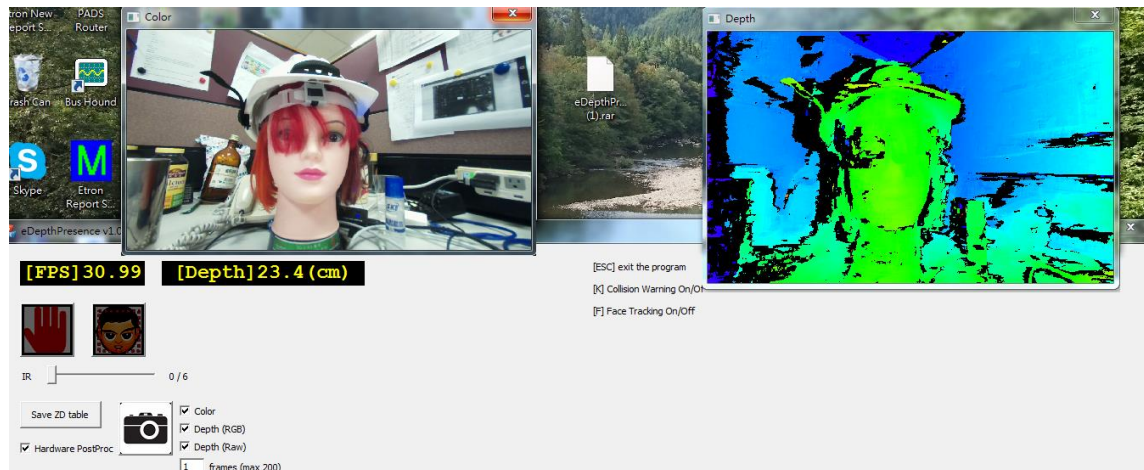
- Start eDepthPresence by double clicking on the application icon marked red,

名稱	修改日期	類型	大小
FaceDetection	2017/7/24 下午 0...	檔案資料夾	
eDepthPresence.exe	2017/9/6 下午 02...	應用程式	1,875 KB
eDepthPresence.prj	2017/7/24 下午 0...	UltraEdit Docum...	1 KB
eSPBKRmv.bmp	2017/7/24 下午 0...	點陣圖影像	2,813 KB
eSPBKRmvDll.dll	2017/7/24 下午 0...	應用程式擴充	10 KB
eSPCollisionWarn.dll	2017/7/24 下午 0...	應用程式擴充	8 KB
eSPDepthPost.dll	2017/7/24 下午 0...	應用程式擴充	21 KB
eSPDL.dll	2017/7/24 下午 0...	應用程式擴充	431 KB
eSPMethods.dll	2017/7/24 下午 0...	應用程式擴充	342 KB
eyes_world.dll	2017/7/24 下午 0...	應用程式擴充	496 KB
msvcp120.dll	2017/7/6 下午 05...	應用程式擴充	445 KB
msvc120.dll	2017/7/6 下午 05...	應用程式擴充	949 KB
opencv_world300.dll	2017/7/24 下午 0...	應用程式擴充	26,988 KB

- eDepthPresence will detect the connected depth module and display color+depth video as following, available functions shown at the right side of the lower window, and three quick access icons are located at the left side.



- The customer may reduce the color/depth display window size by double click the window title bar, and the window will become as the following,



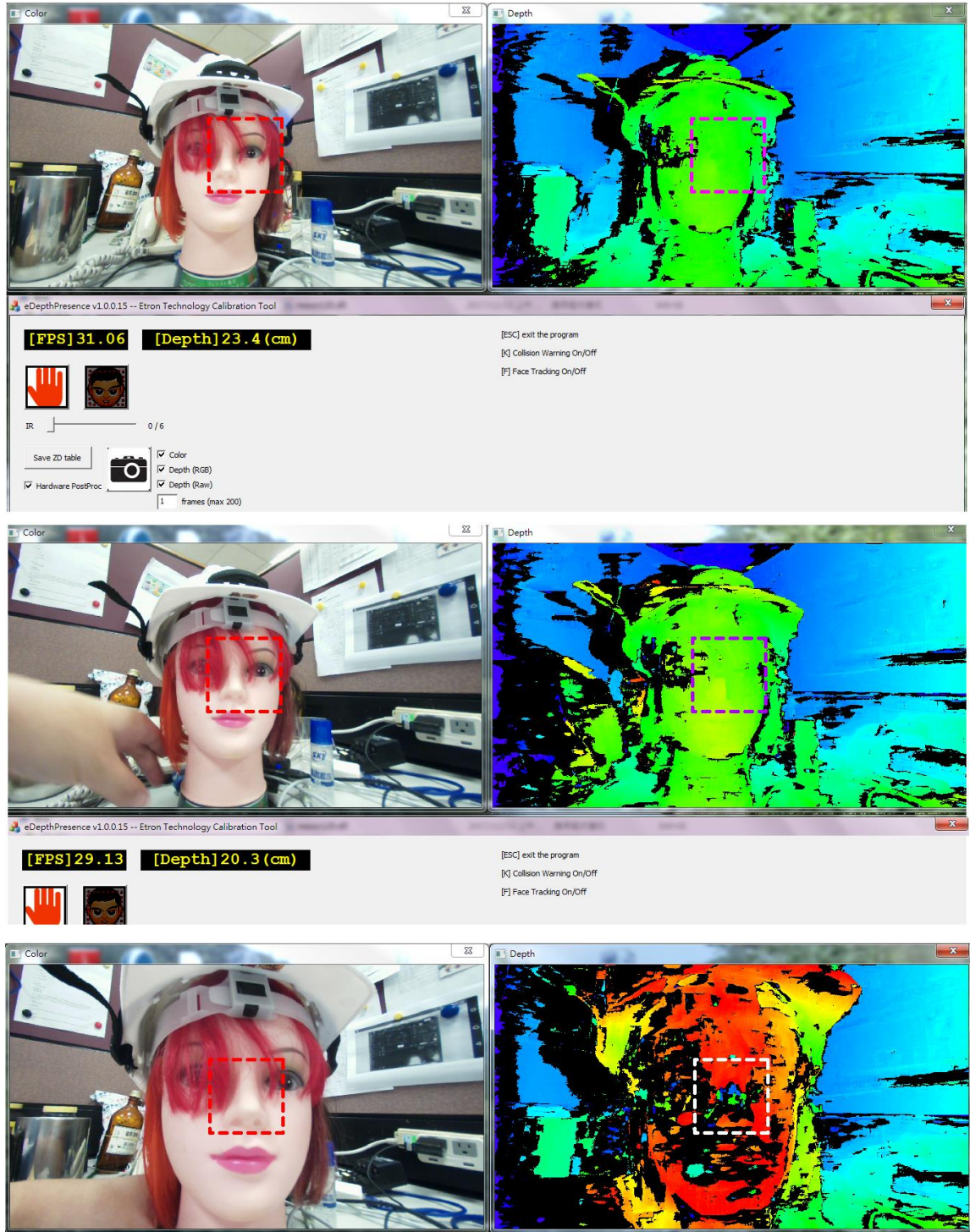
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5. The eDepthPresence provides several functions that the user can apply or turn on/off,

- Collision warning, by pressing “K” key or click on icon marked red below.

The distance range—

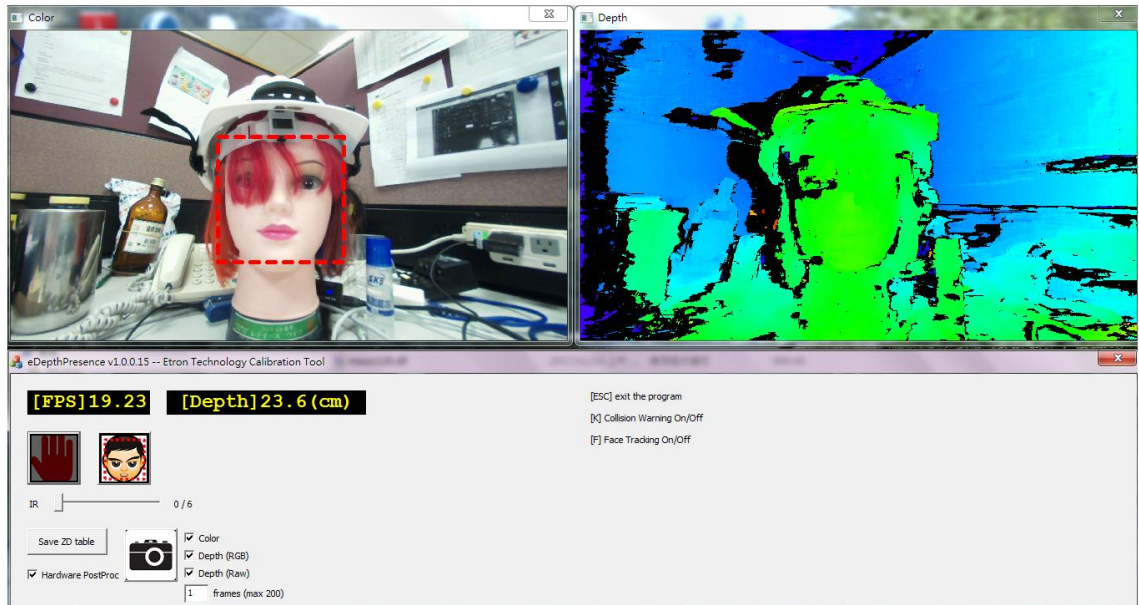
Red is “Far”; Blue is “Close” and White means “Marco”!



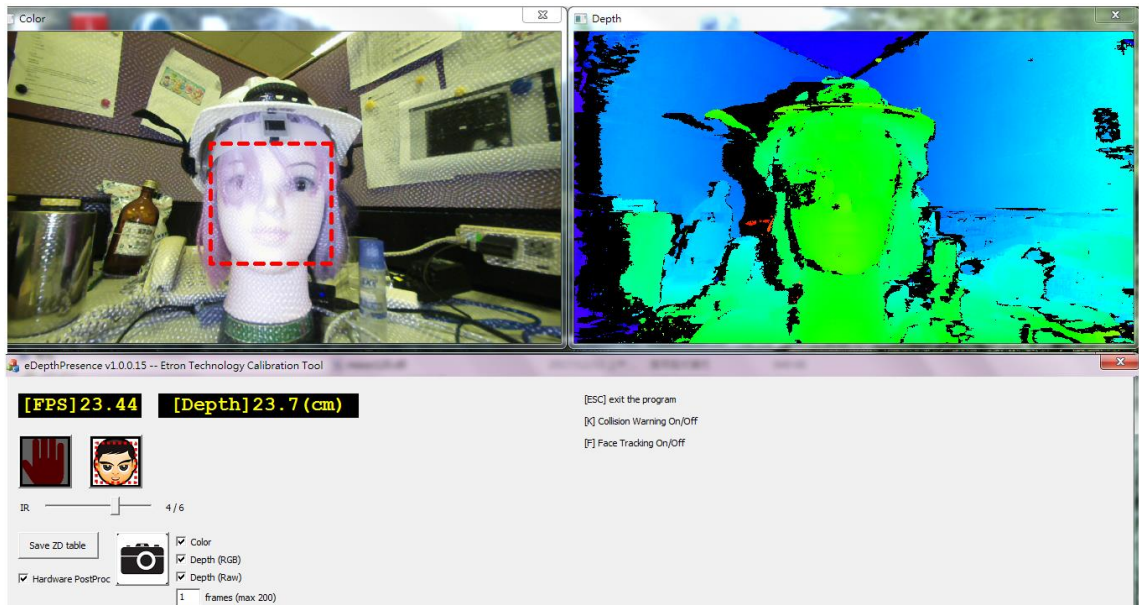



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- Face tracking, by pressing “F” key or click on icon marked red below.

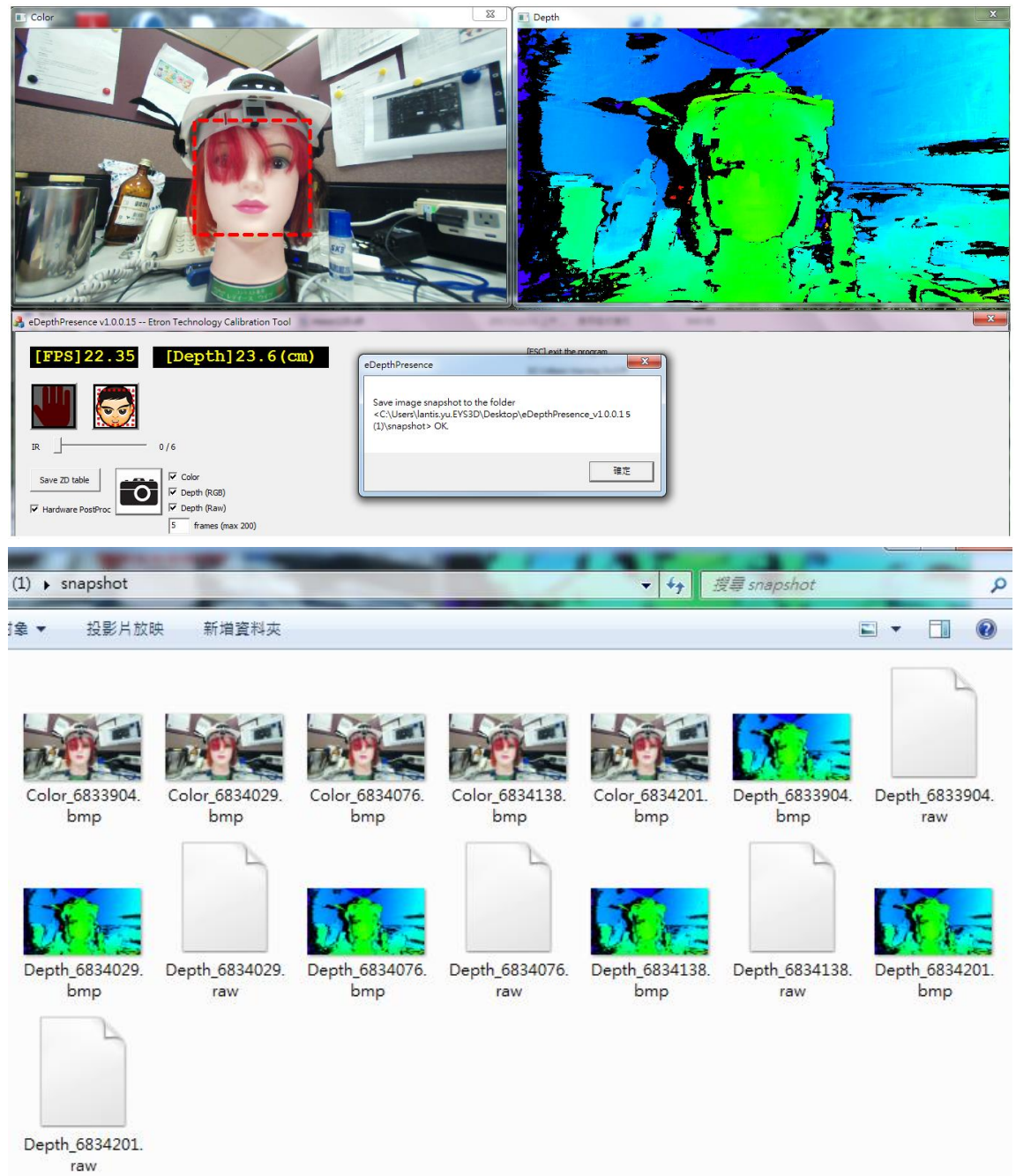


- “IR Project On/Off Level Control” for depth map display, by Pull “IR” BAR.  
(Note: For eye Safety, eYs3D suggest IR level can't set over “4” without eye safety protection!)



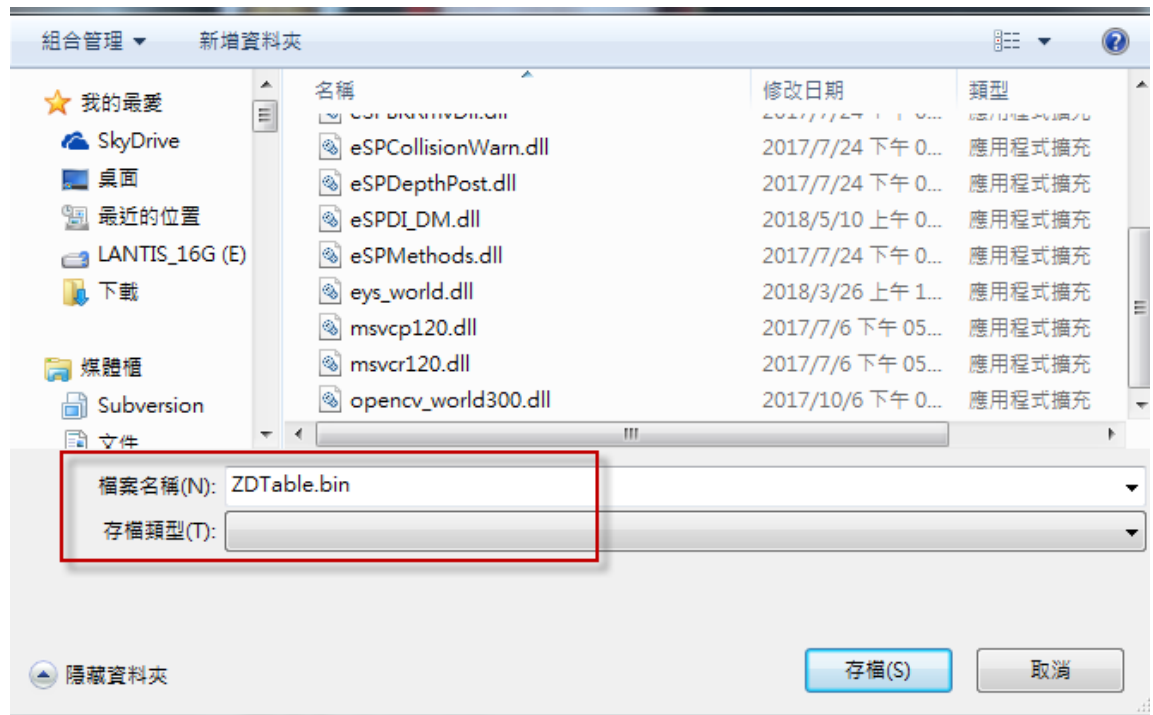
- “Take Photo” for color/depth image saving, by pressing “” icon. Customer can save the color;Depth(RGB);Depth(RAW) image(Color\_xxxxxxx.bmp) , depth(Depth\_xxxxxxx.bmp) and depth(Depth\_ xxxxxxx.raw) in the path of [eDepthPresence\\_v1.0.0.15 \snapshot](#) folder!

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- “Save ZD table” for depth map table saving, by pressing “Save ZD table” icon. Customer can save the ZD table(ZDTable.bin) in the path which customer wanna to save!

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6. To exit eDepthPresence by pressing “Esc” key.