

Bibliography

BOOKS

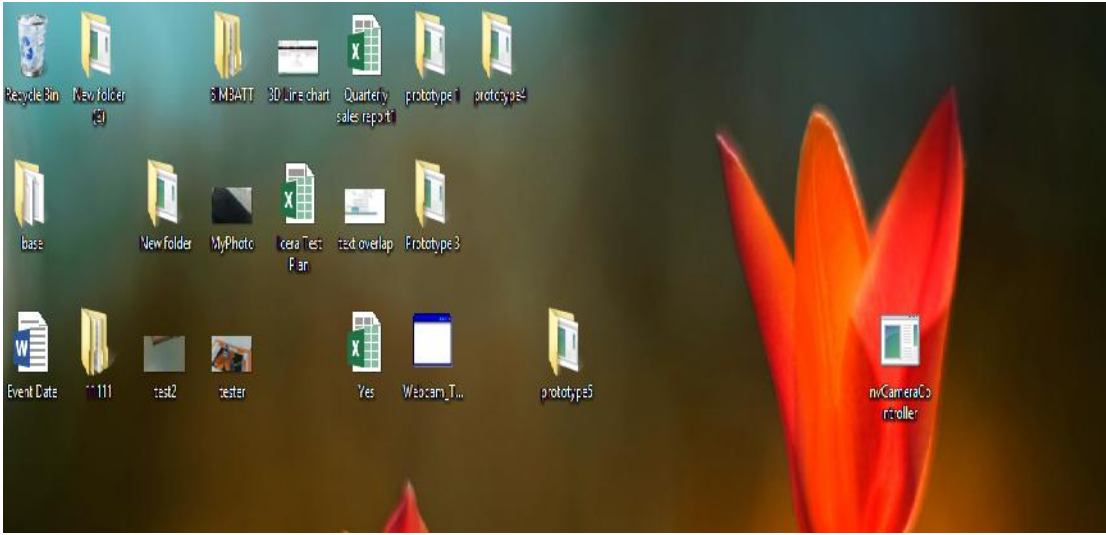
- Programming Windows
- By Charles Petzold.
- Win32 Programming
- By Brent E.Rector.
- Object Oriented Programming with C++
- By E Balaguruswamy

WEB REFERENCES

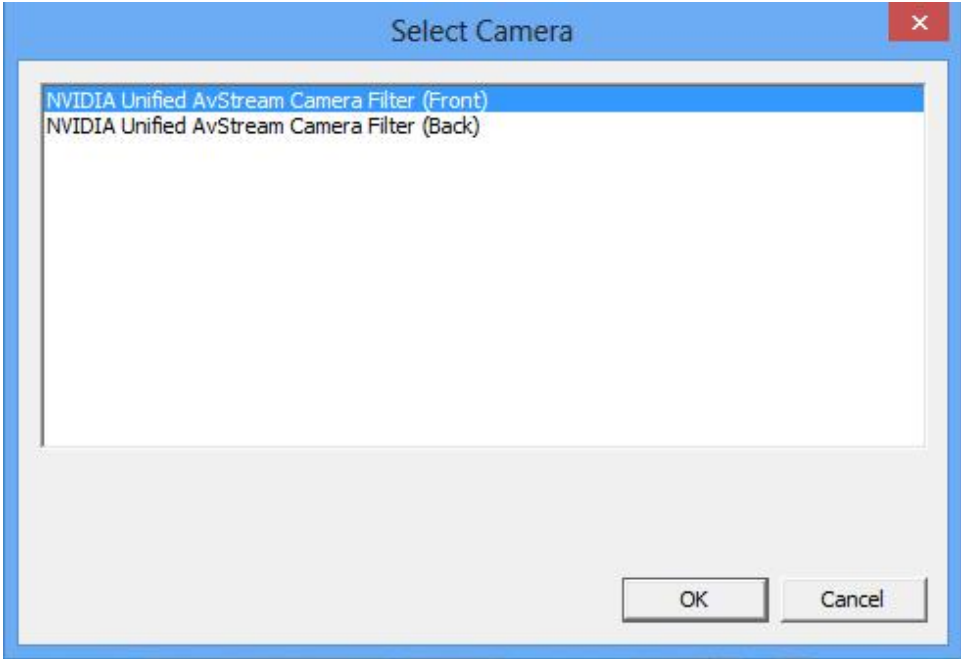
- <http://msdn.microsoft.com/en-us/library>
- <http://www.functionx.com>
- <http://stackoverflow.com>
- <http://wiki.nvidia.com>
- <http://www.codeproject.com>
- <http://www.cplusplus.com>

Annexure1: User Interfaces Screens

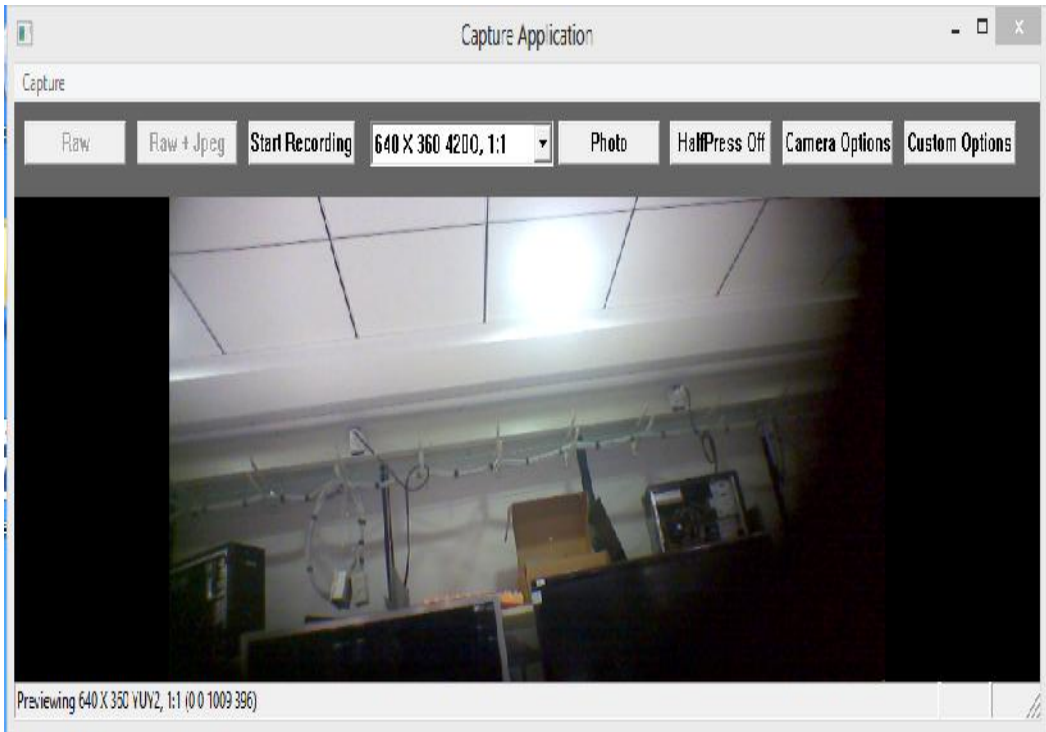
NvCameraCntrroller Tool



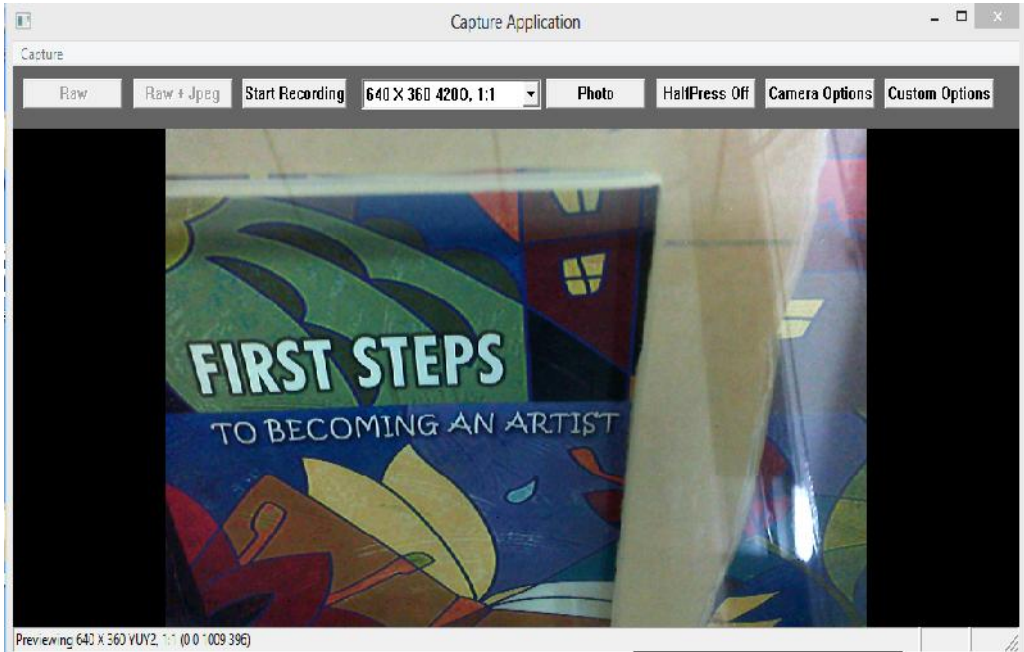
Select Camera Mode:



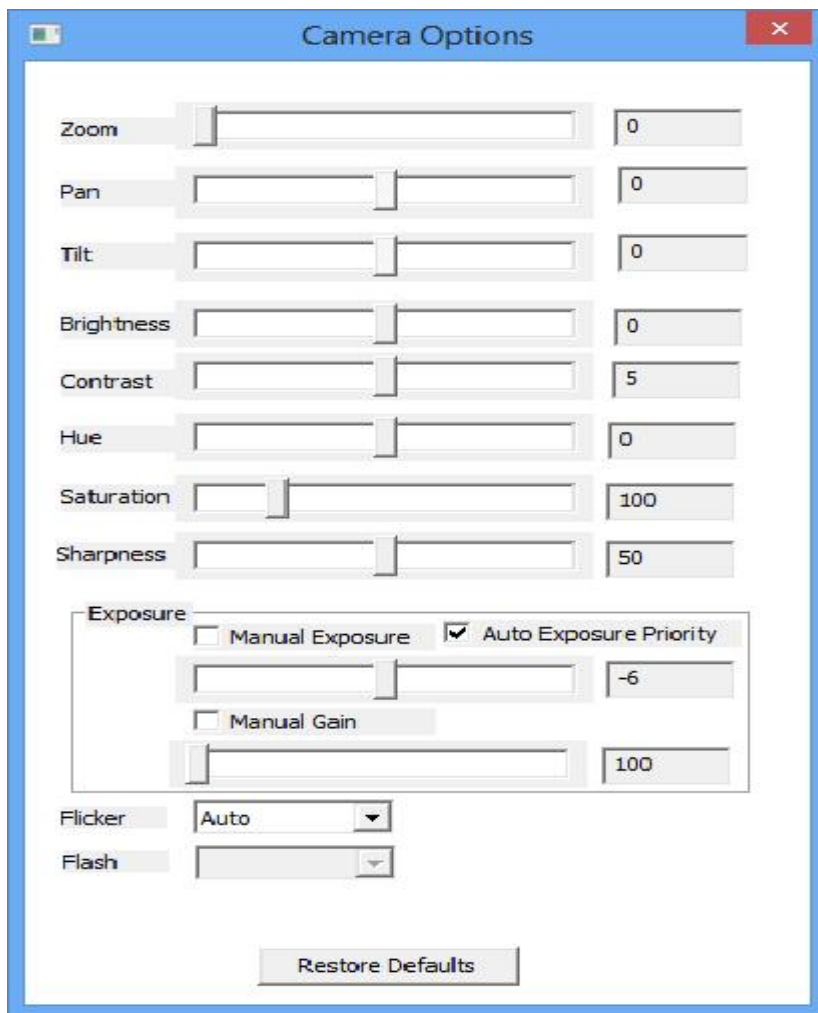
Front Camera



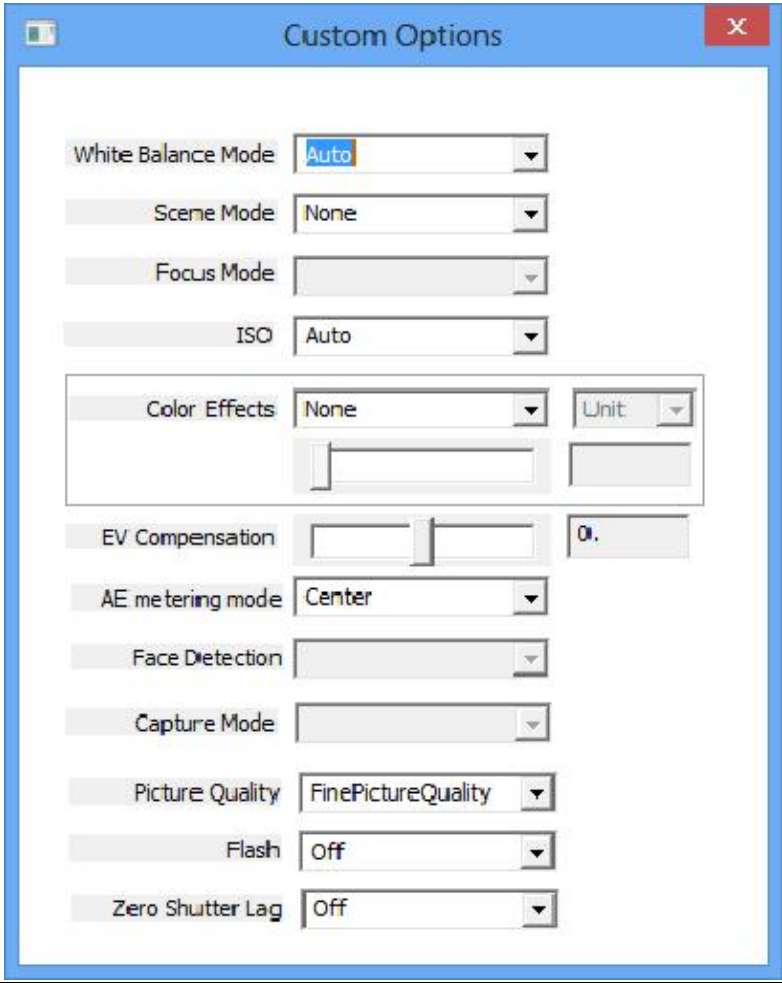
Back Camera



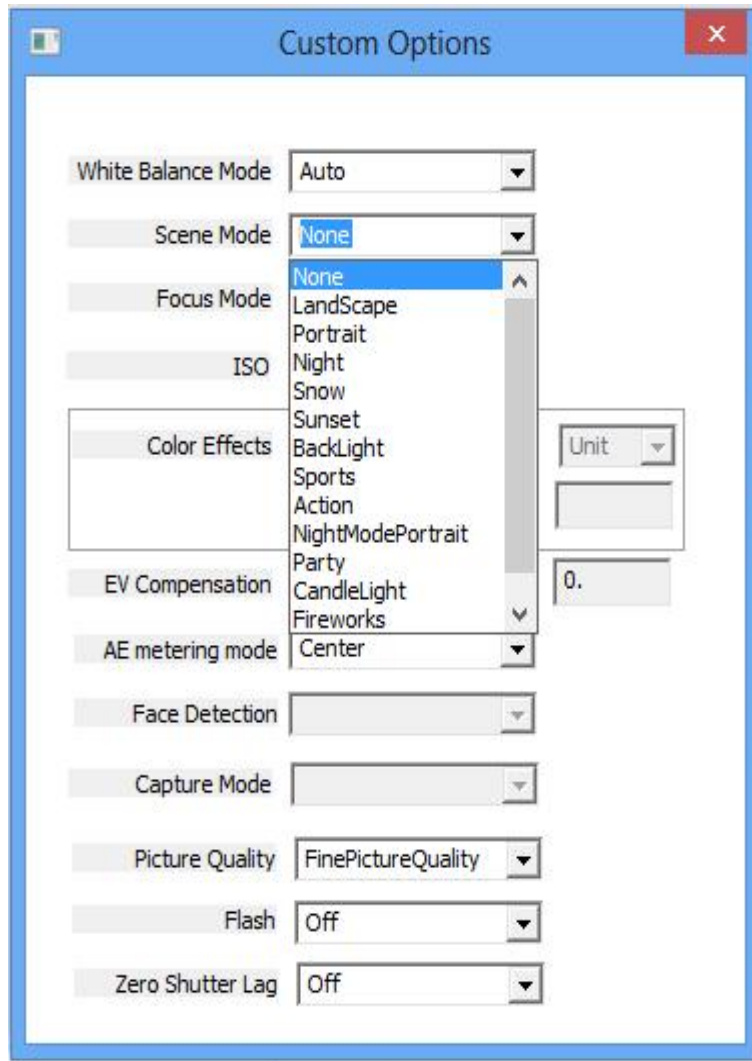
Camera Option



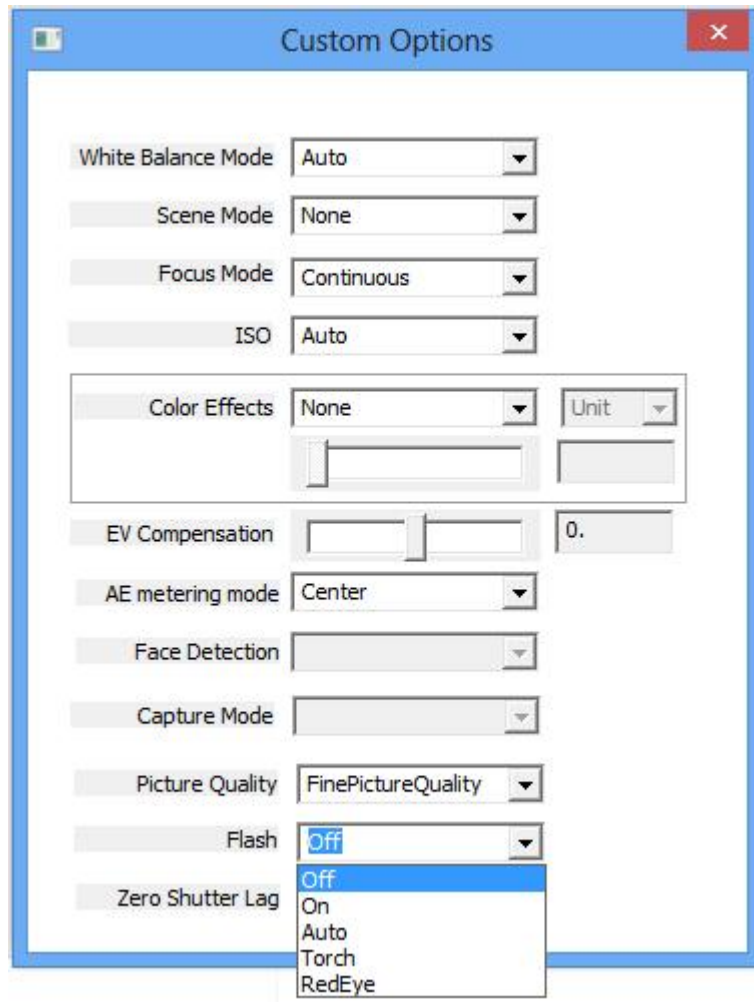
Custom Option



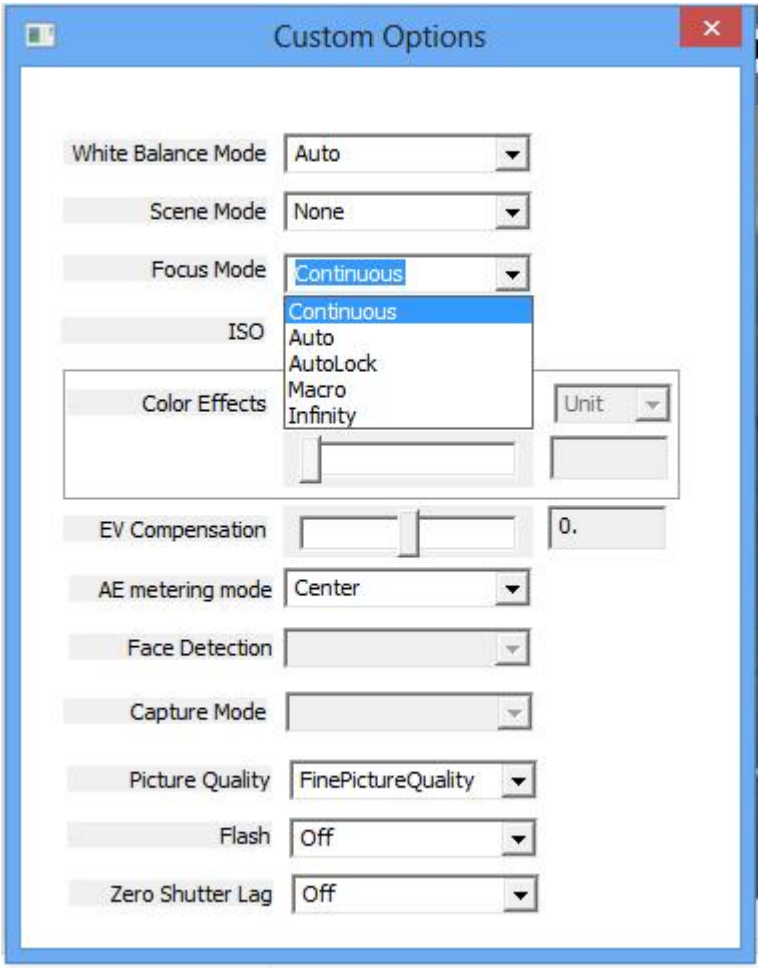
Custom Option



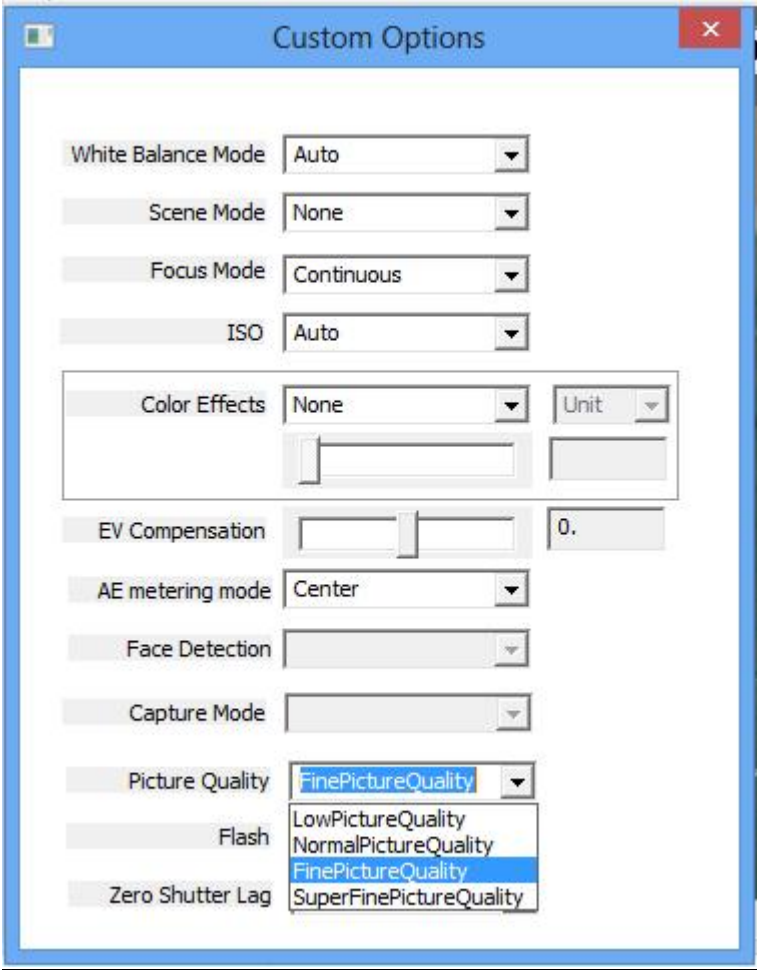
Custom Option



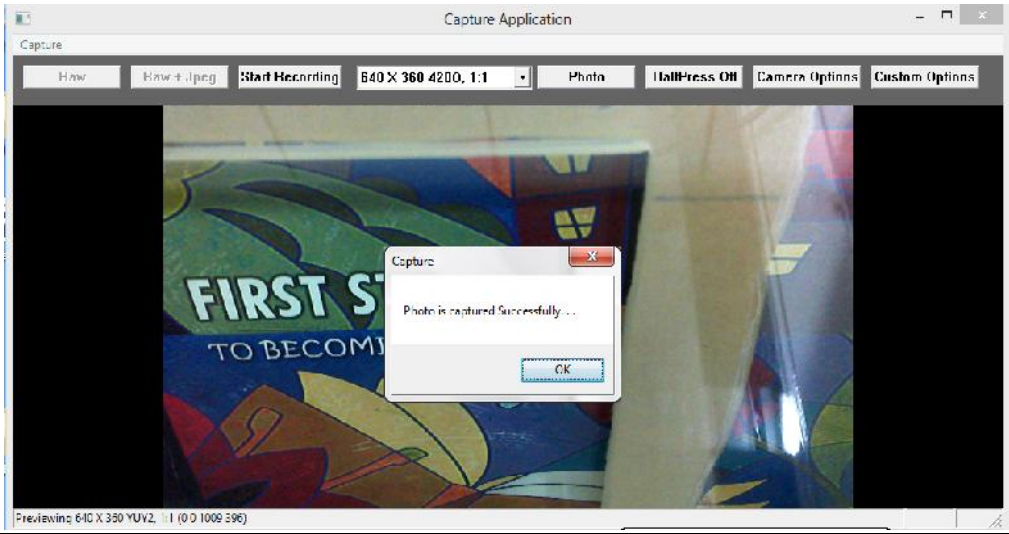
Custom Option



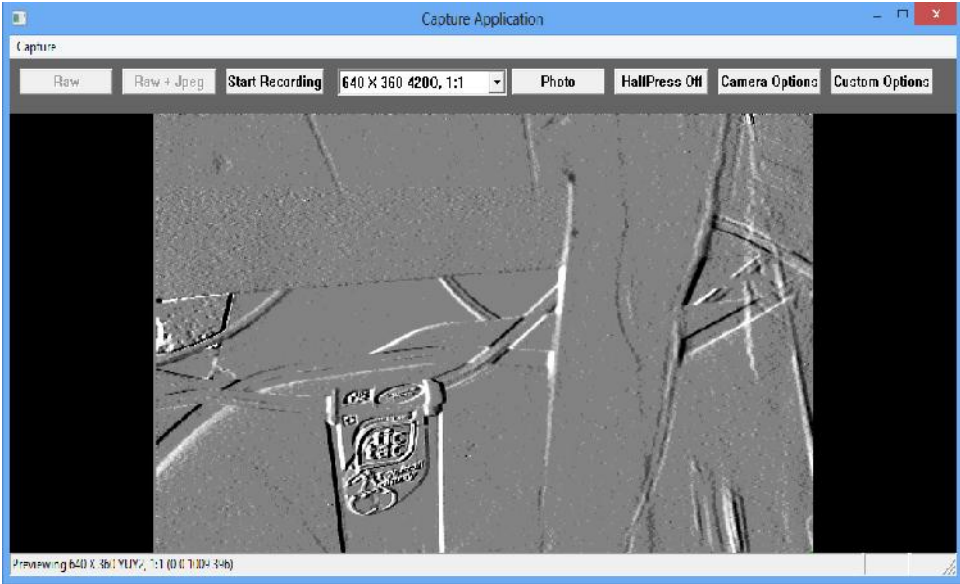
Custom Option



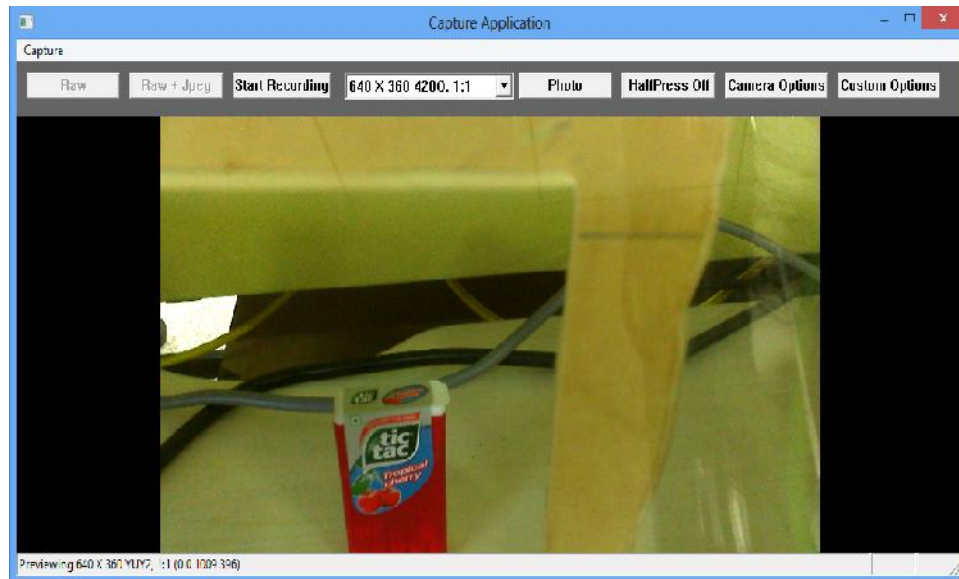
Output Screen (After capturing Photo)



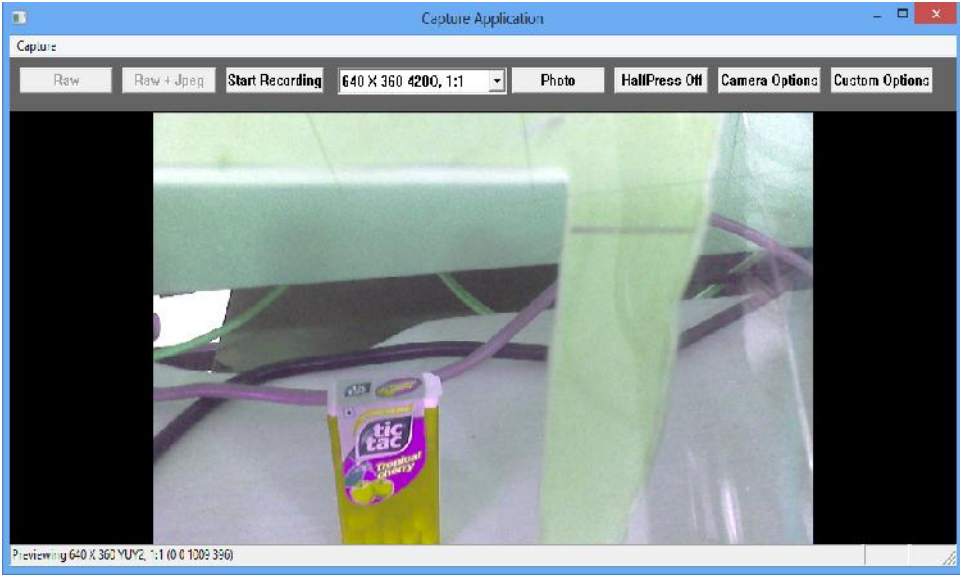
Output Screen (After applying Emboss)



Output Screen (After applying Daylight effect)



Output Screen (After applying Contrast & Hue)



Sample Program Code

```
void OnCommand(HWND hwnd, int id, HWND /*hwndCtl*/, UINT
/*codeNotify*/)
{

    // declaration of pProp
    INvCameraPropInterface *pProp =
    pCMFCameraController->GetCameraPropInterface();

    CameraDataCollectioncdc;

    if ( id >= 1 && id <= 50 )
    {

        nPreviewFormat = id - 1;

        pCMFCameraController->StartPreview(nPreviewFormat); //this is async
        so we need to wait for call back even before starting the preview
        return;
    }

    switch (id)
    {
    case ID_CAPTURE_CHOOSSEDEVICE:
        OnChooseDevice(hwnd);
        break;

    case ID_CAPTURE_RECORD:
        if (pCMFCameraController->IsRecording())
        {
            OnStopRecord(hwnd);
        }
        else
        {
            OnStartRecord(hwnd);
        }
        break;
    }
```



```

case ID_CAPTURE_TAKEPHOTO:
case ID_CAPTURE_TAKEBAYERPHOTO:
case ID_CAPTURE_TAKEBAYER_JPEG_PHOTO:
    case ID_CAPTURE_PHOTO :

//-----*** Basic Options ***-----
    pCMFCameraController-
>SetCameraProperty(enumStdCameraPropertyZoom, true, 1);

        for(inti=0;i<=2;i++)
        {

pCMFCameraController->SetCameraProperty(enumStdCameraPropertyHue,
true, i);
pCMFCameraController->SetCameraProperty(enumStdCameraPropertyFlash,
true, i);

                Delay(1000);
                OnTakePhoto(hwnd, id);
                Delay(1000);

                }

//-----*** Basic Options ***-----
//-----*** Custom Options ***-----

        for (inti=0;i<=9;i++)
        {
pProp->SetCameraFlashMode((ULONG)i);

pProp->SetCameraColorEffect((ULONG)2,&cdc);
                Delay(1000);
                OnTakePhoto(hwnd,id);
                Delay(1000);
        } // End of For Loop
//-----*** Custom Options ***-----
-

MessageBox(hwnd,_T("Photo is captured successfully. .
."),_T("Capture"),NULL);

break;

```

```
#define IDC_CAPTURE_PHOTO 40019
#define IDC_CAPTURE_VIDEO 40020
```

```
#define IDC_EDIT_ZOOM 1013
#define IDC_EDIT_PAN 1014
#define IDC_EDIT_TILT 1015
#define IDC_EDIT_BRIGHTNESS 1016
#define IDC_EDIT_CONTRAST 1017
#define IDC_EDIT_HUE 1018
#define IDC_EDIT_SATURATION 1019
#define IDC_EDIT_SHARPNESS 1020
```