

3D Application Function Guide

◆ Overview

For the 3D developer, In this document, we explain and guide developer how to build 3D application that implement 3D function in developer computer.

◆ Test software

SC510N2.VC6.3D.DISPLAY

SC510N2.VC6.3D.RECORDING

SC510N2.VC6.3D.STREAMING

Stereoscopic Player

◆ Test hardware

SC510N2

Camera * 2

3D monitor

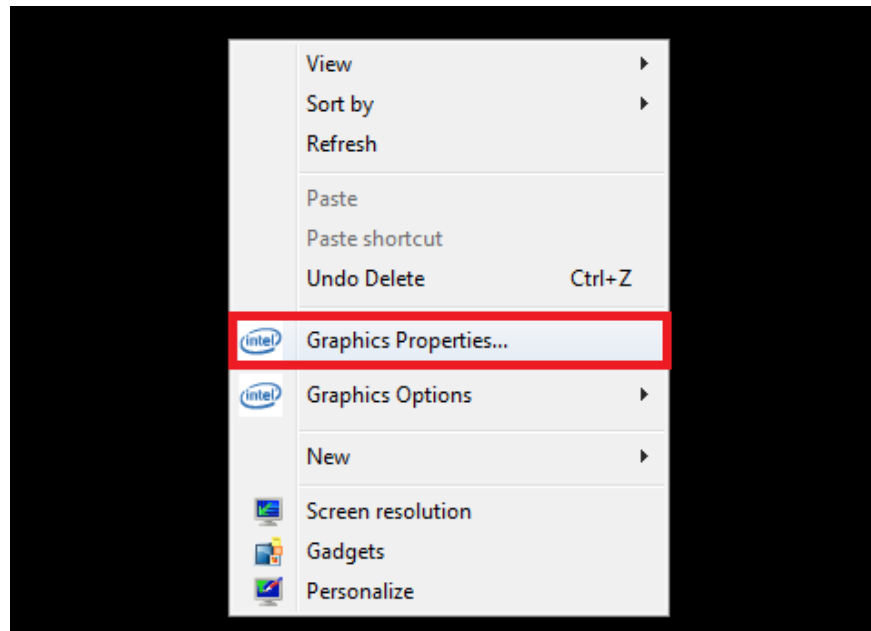
Build 3D application

◆ NOTE:

- Developer must use dot-by-dot to display 3D. for example, if the format of 3D stream is 1920*1080, and display window must be 1920*1080.

- INTEL GPU must be set as follow:

#1 Click the right button on " Desktop " → Graphics Properties

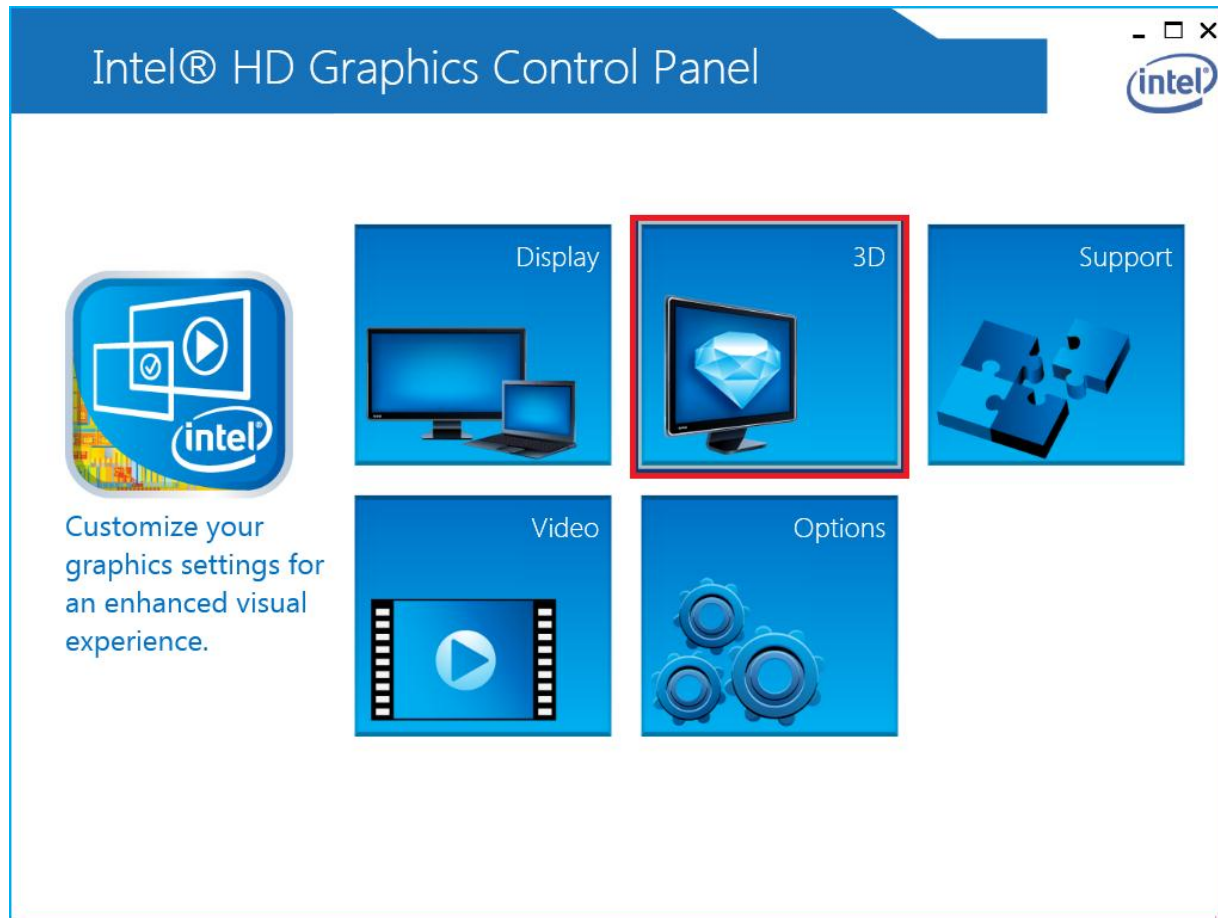


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#2 Intel® HD Graphics Control Panel → 3D

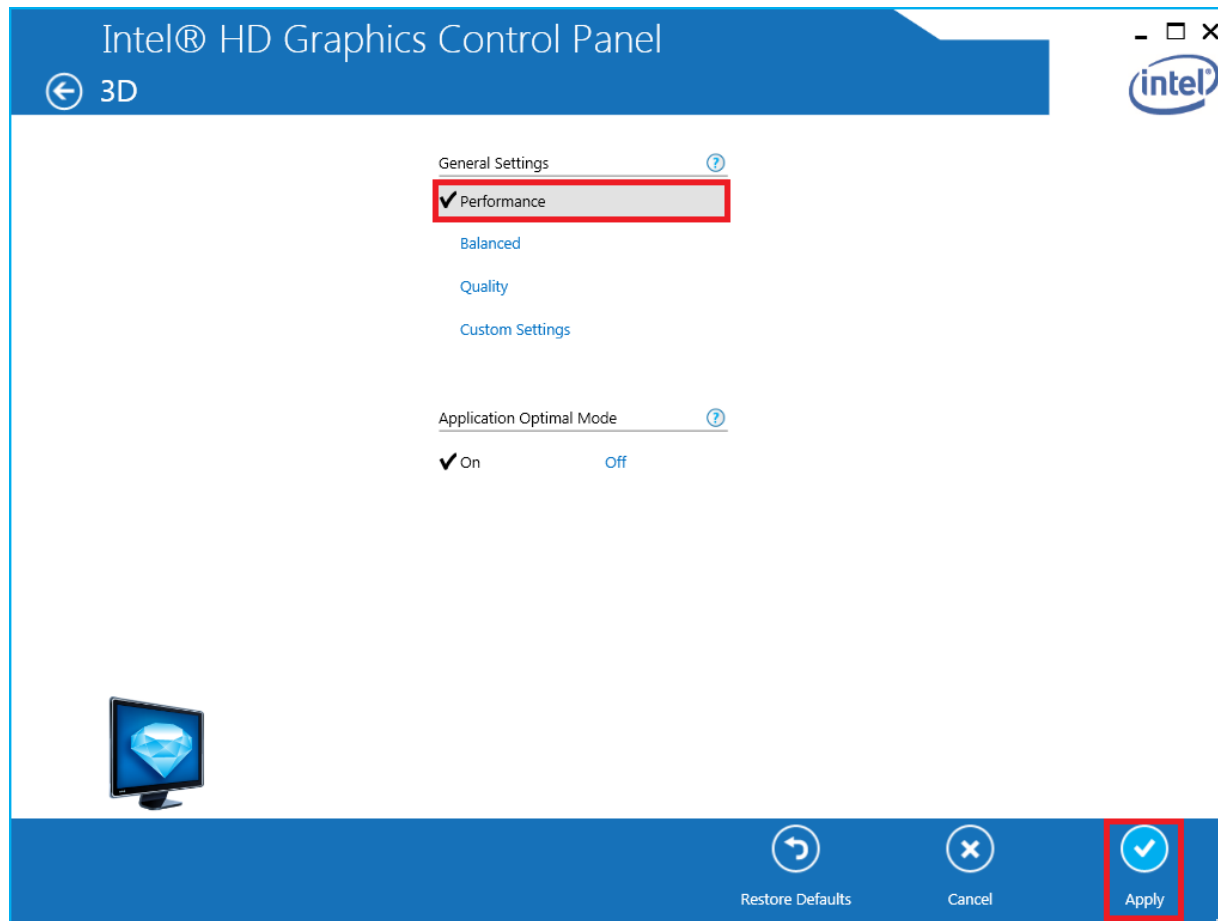


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#3 General Settings → performance → Apply

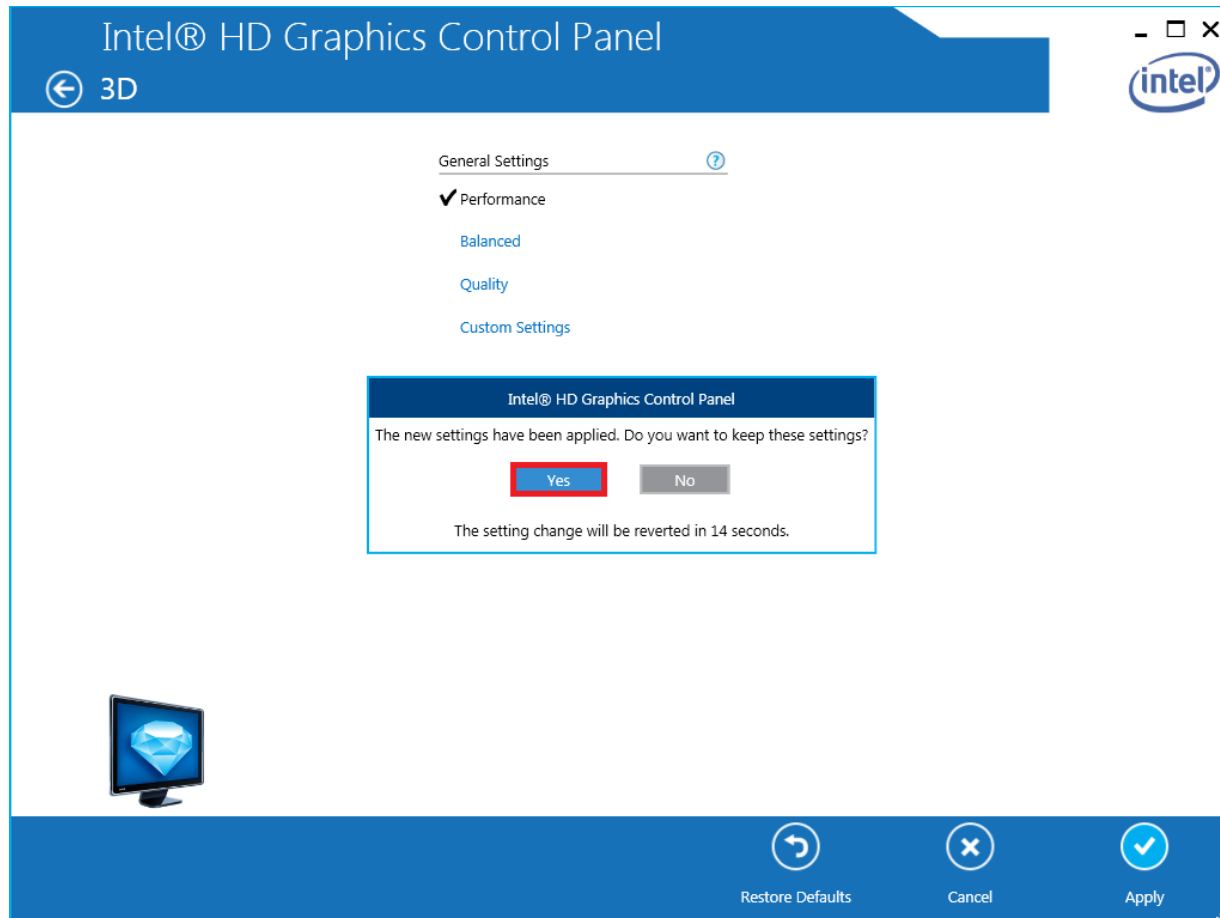


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#4 Click " Yes " to keep these settings.

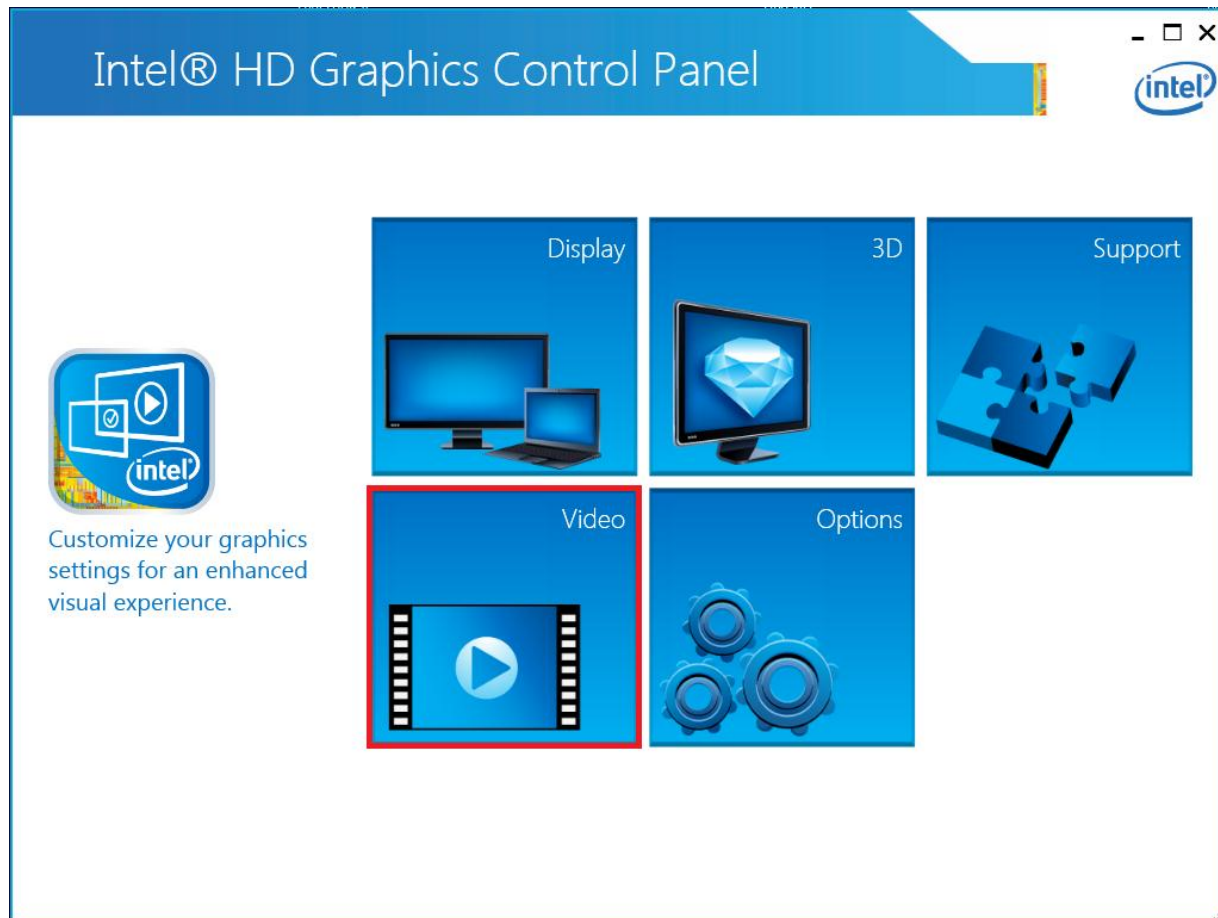


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#5 Intel® HD Graphics Control Panel → Video

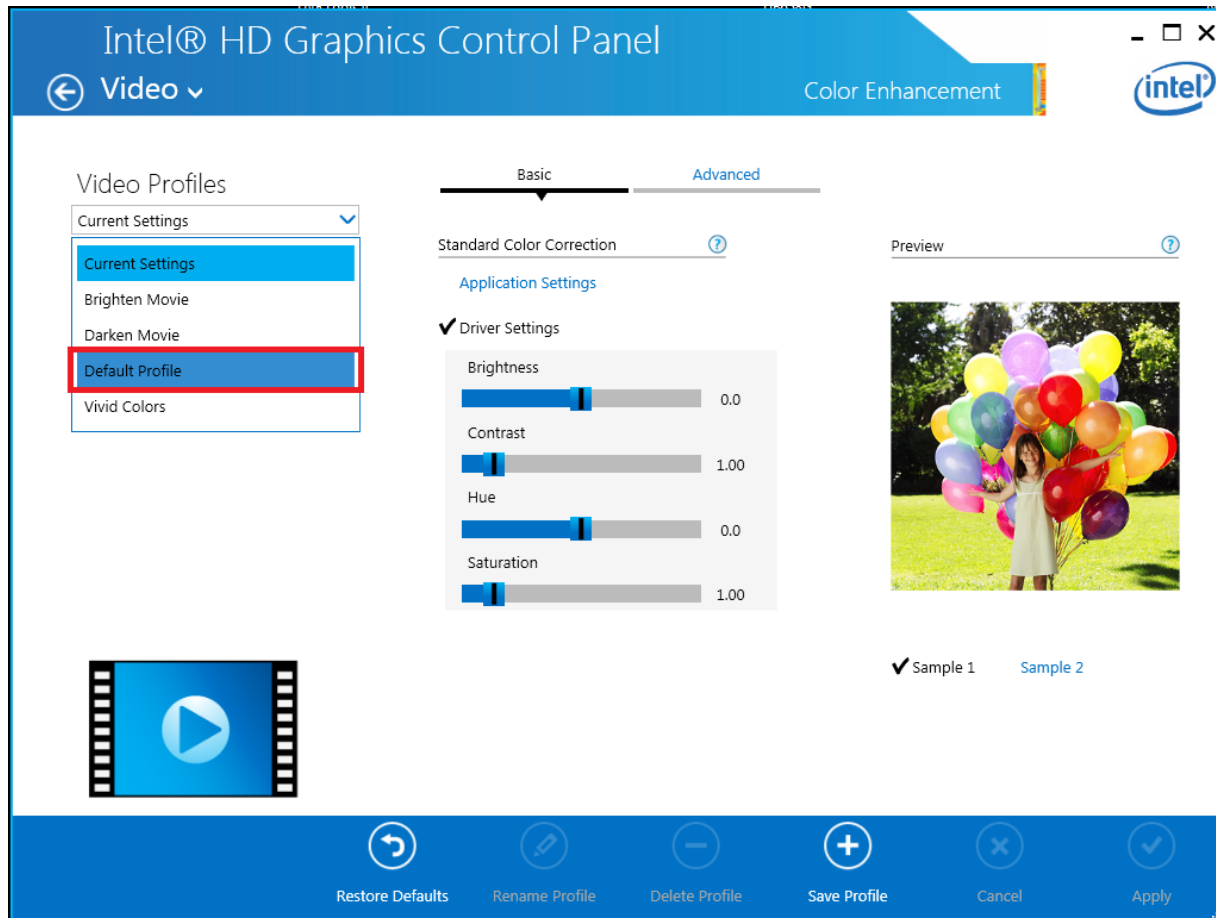


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#6 Video profiles → Default Profile.

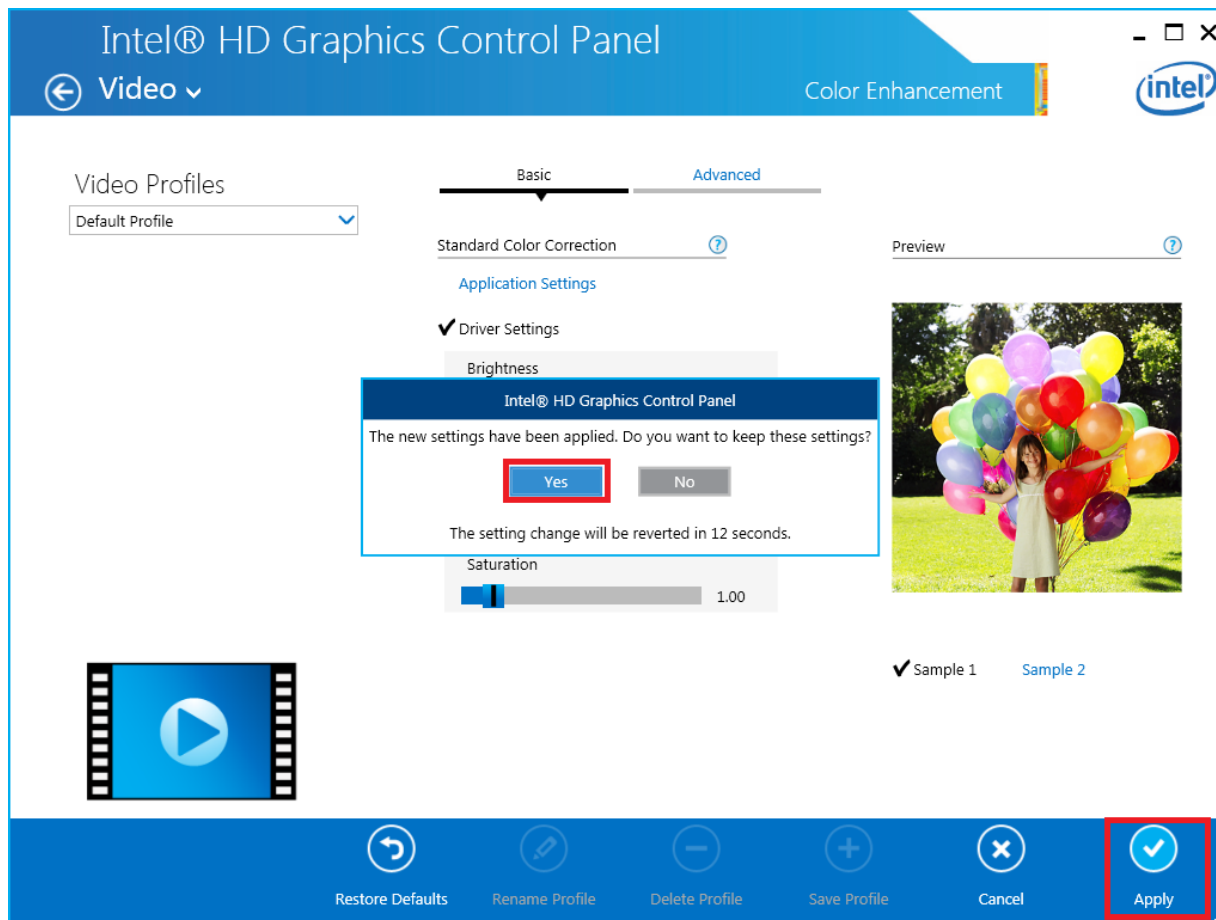


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#7 Click " Apply " and " Yes " to keep these settings.



Build 3D application

◆ 3D signal:

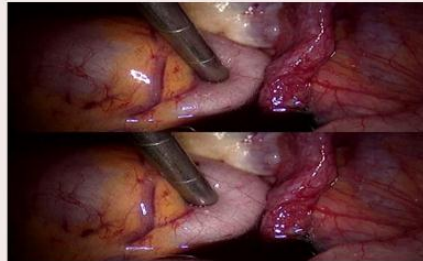
In this document, we explain and guide developer how to build 3D application that implement 3D function with 2 channel 3D signal.

1CH STEREO 3D

Side by side



Top bottom



Line by line



2CH 3D

Left eye, Right eye



Build 3D application

1. SC510N2.VC6.3D.DISPLAY

In our QCAP SDK, you can combine two channel images of capture card into one channel high quality 3D image.



Build 3D application

1. SC510N2.VC6.3D.DISPLAY

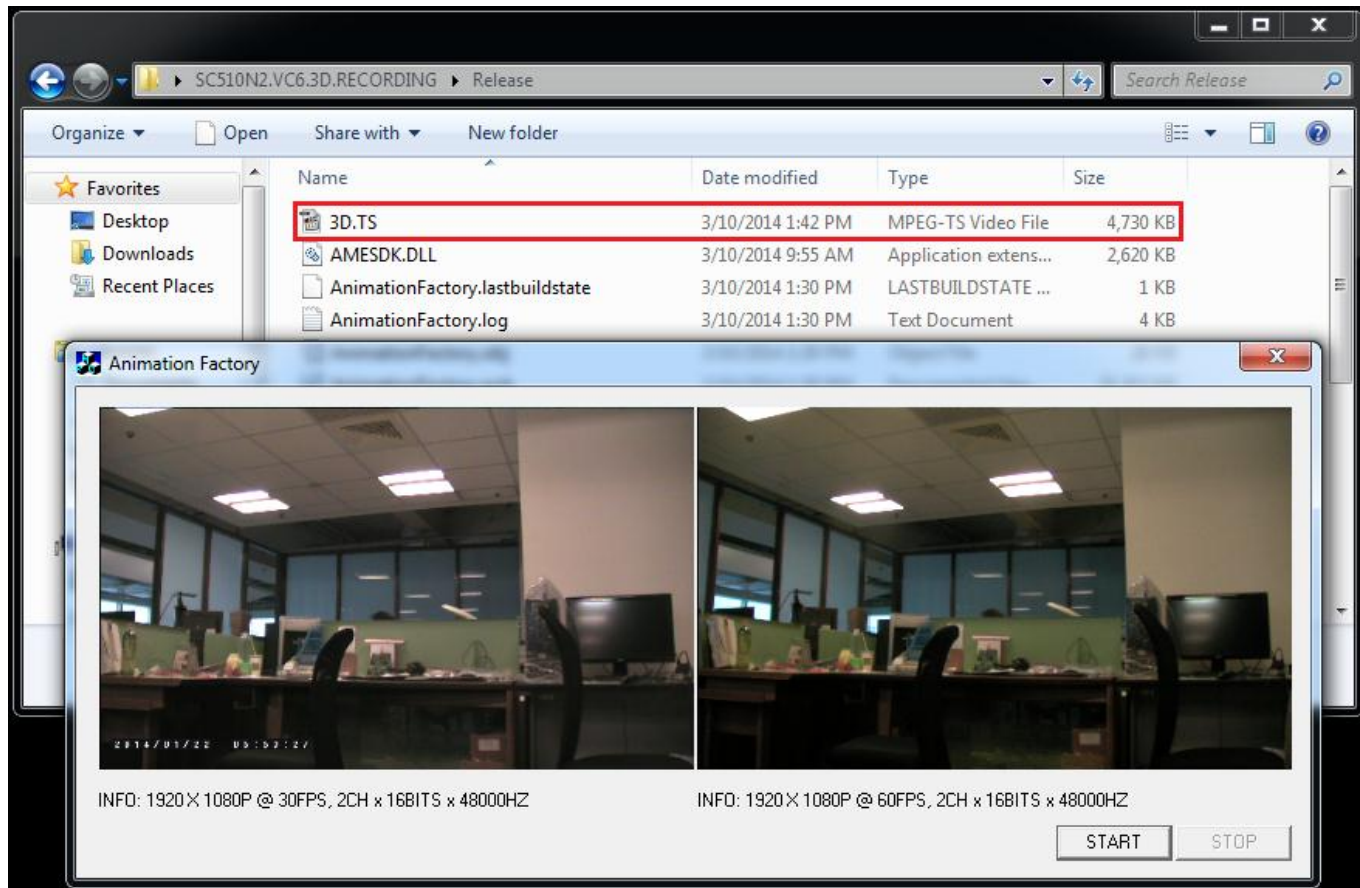
We also support the 3D display function to allow you to display 3D streams such as general 3D player "Stereoscopic Player".



Build 3D application

2. SC510N2.VC6.3D.RECORDING

In addition the 3D display function, QCAP SDK support the 3D record function to allow you get 3D file of TS format.

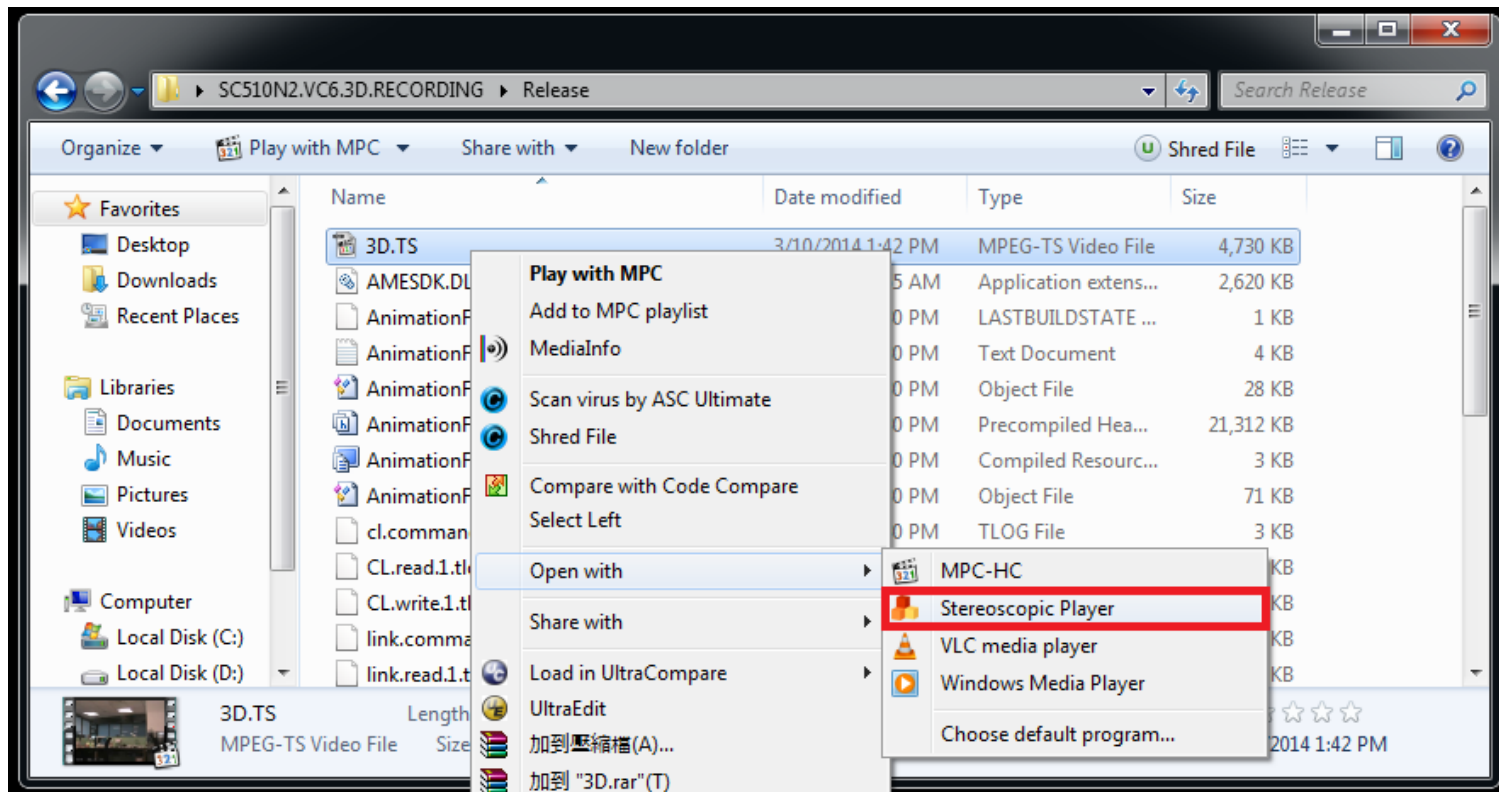


Build 3D application

2. SC510N2.VC6.3D.RECORDING

User can use general 3D player to playback the 3D file.

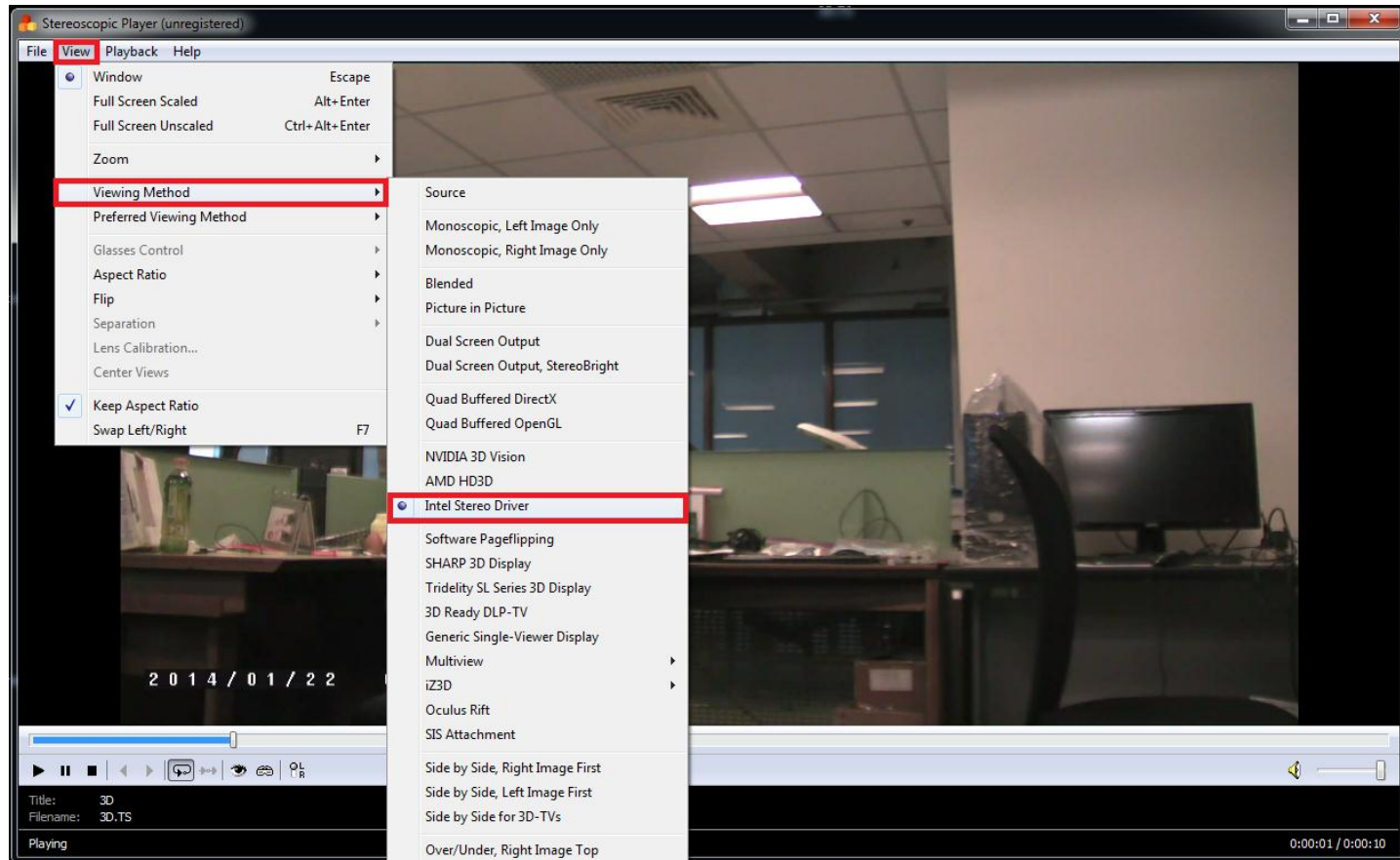
#1 Use 3D player " Stereoscopic Player " to playback the file recorded from QCAP SDK.



Build 3D application

2. SC510N2.VC6.3D.RECORDING

#2 The "Viewing Method" of Stereoscopic Player should be set to "Intel stereo driver", then You will see the 3D effect on 3D monitor.



Build 3D application

3. SC510N2.VC6.3D.STREAMING

We also support the broadcasting server & client function to allow you to design a streaming server & client . The sample "SC510N2.VC6.3D.STREAMING " demonstrates how to use the 3D stream function in our SDK.

