

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

3D monitor

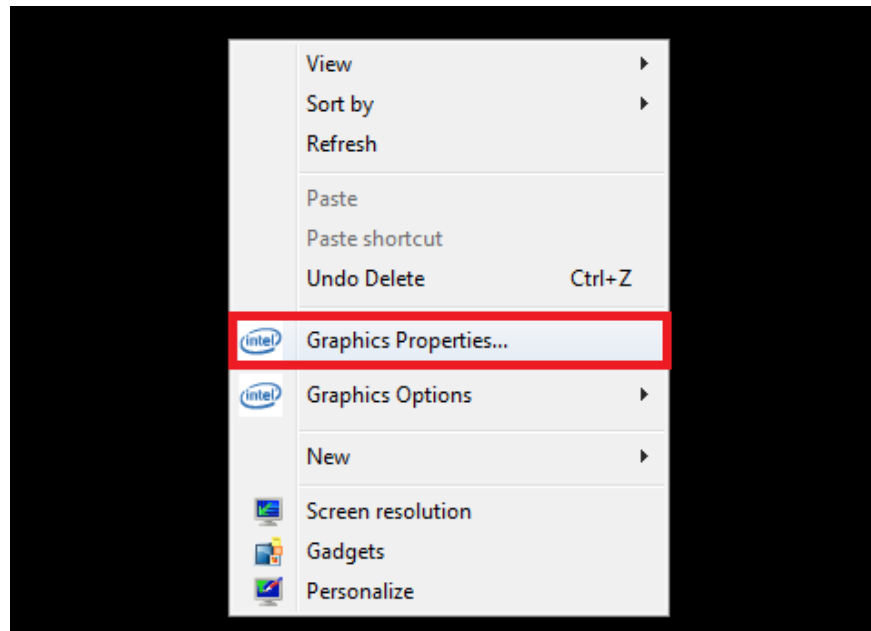
Build 3D application

◆ 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

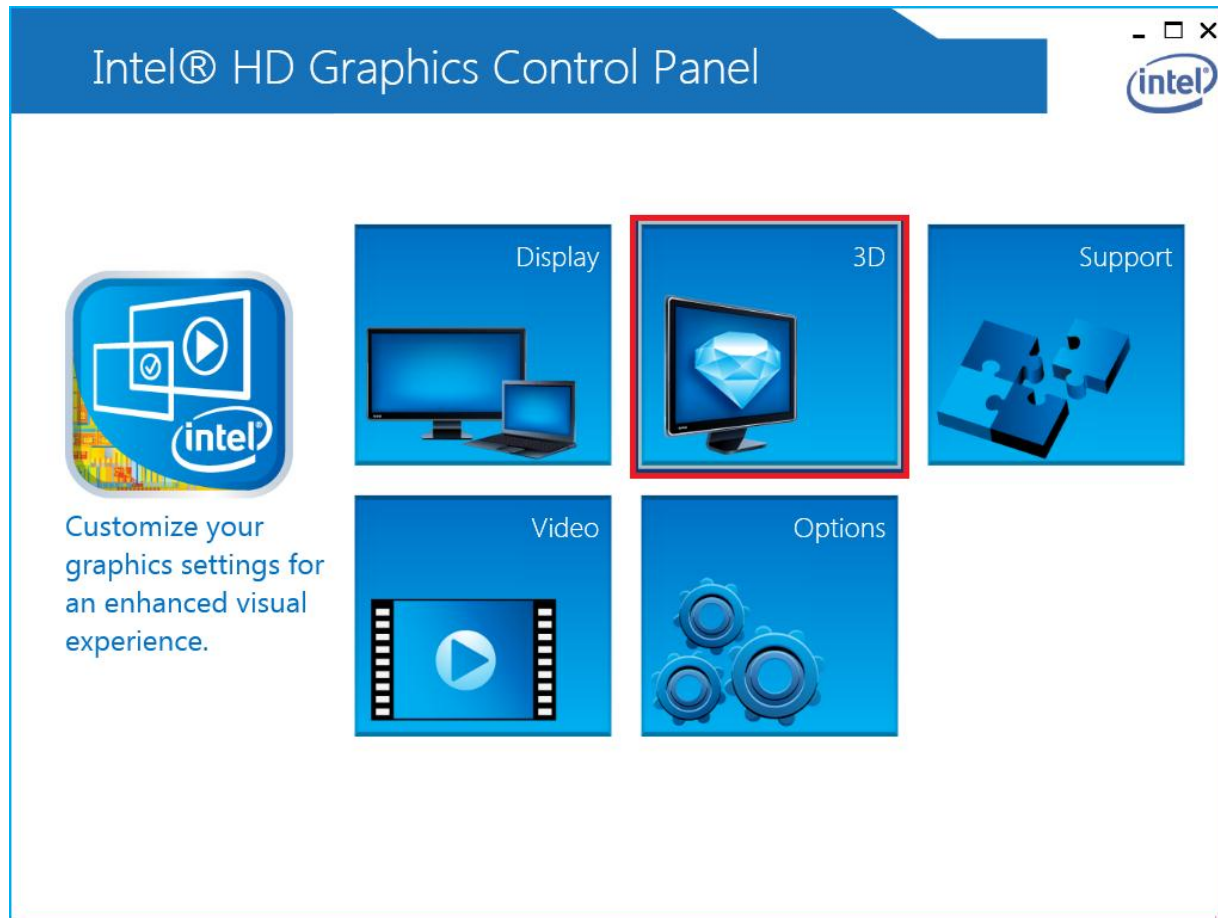


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#2 Intel® HD Graphics Control Panel → 3D

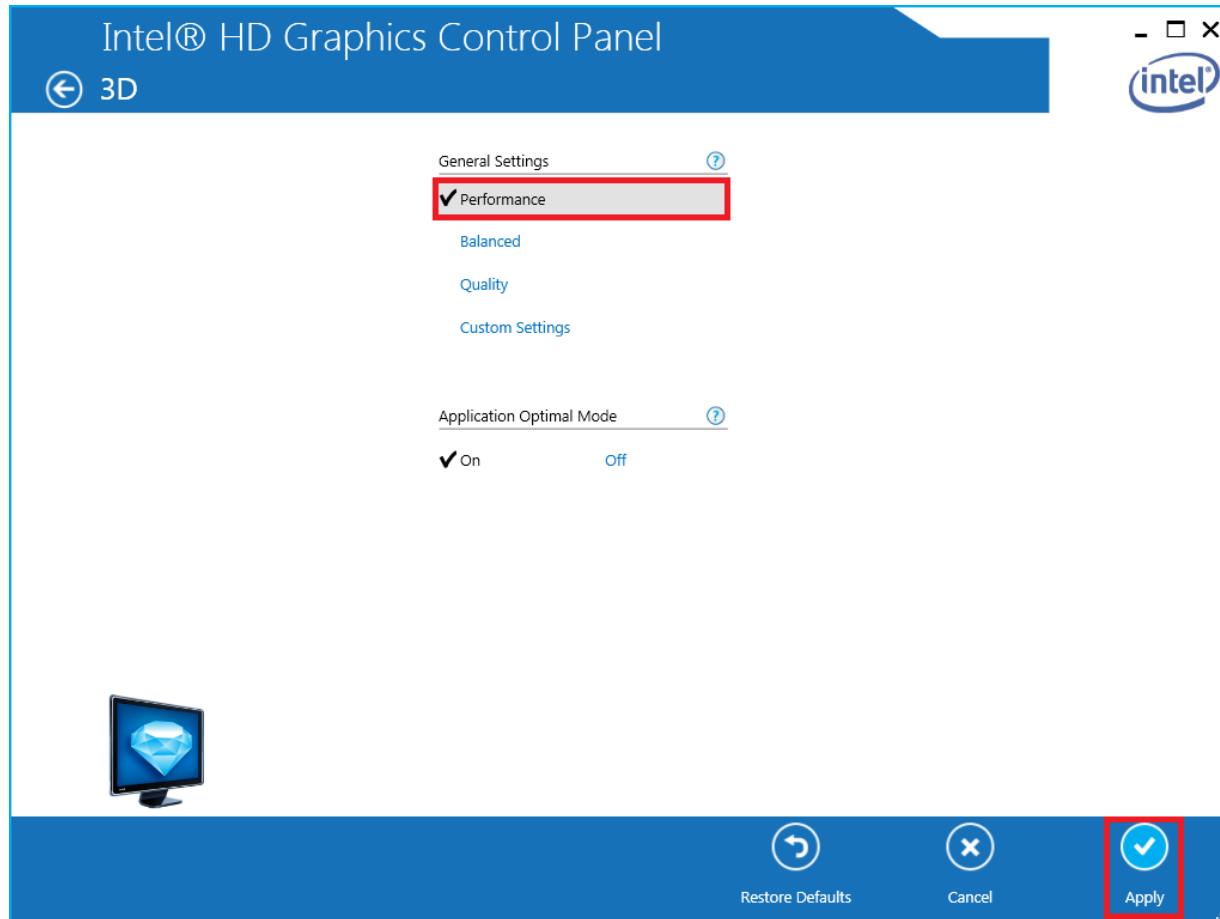


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#3 General Settings → performance → Apply

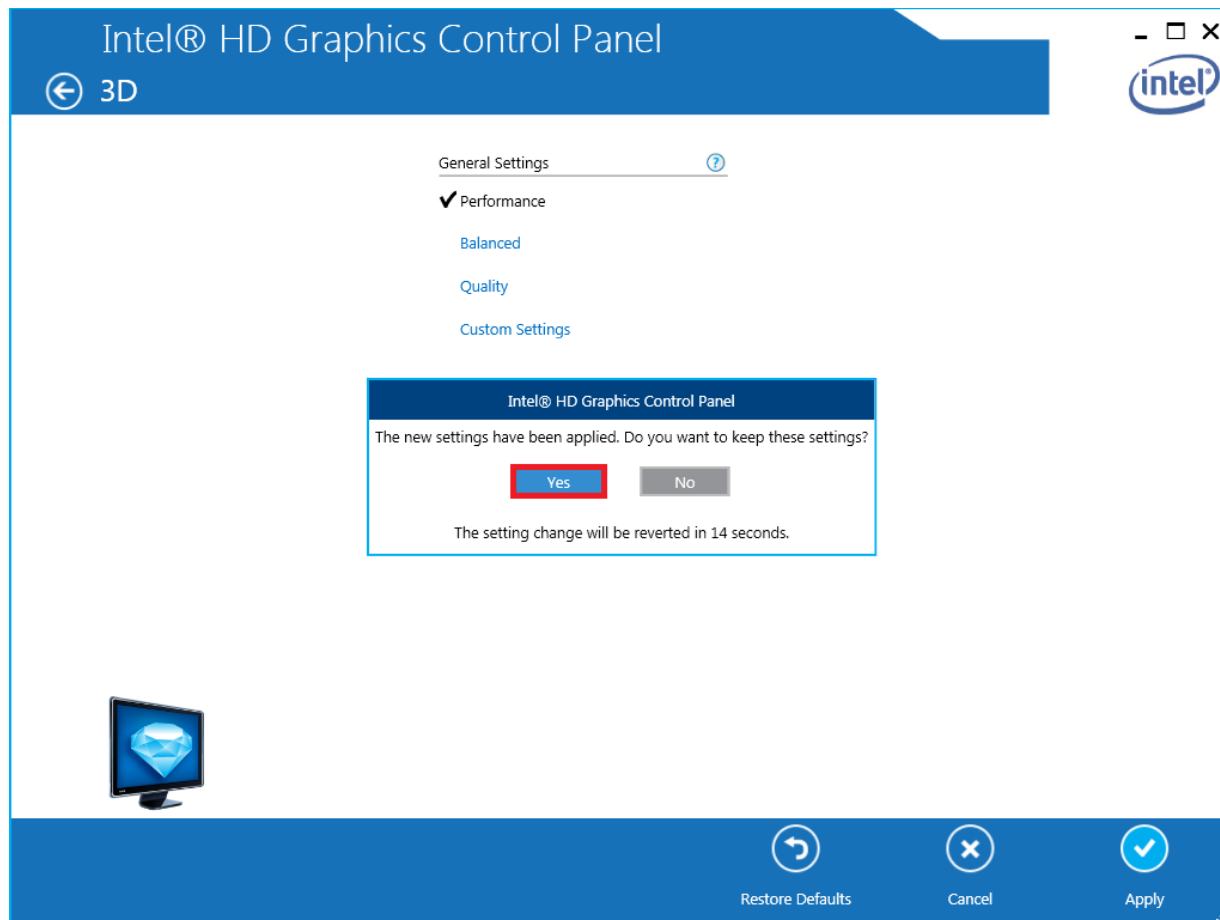


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#4 Click " Yes " to keep these settings.

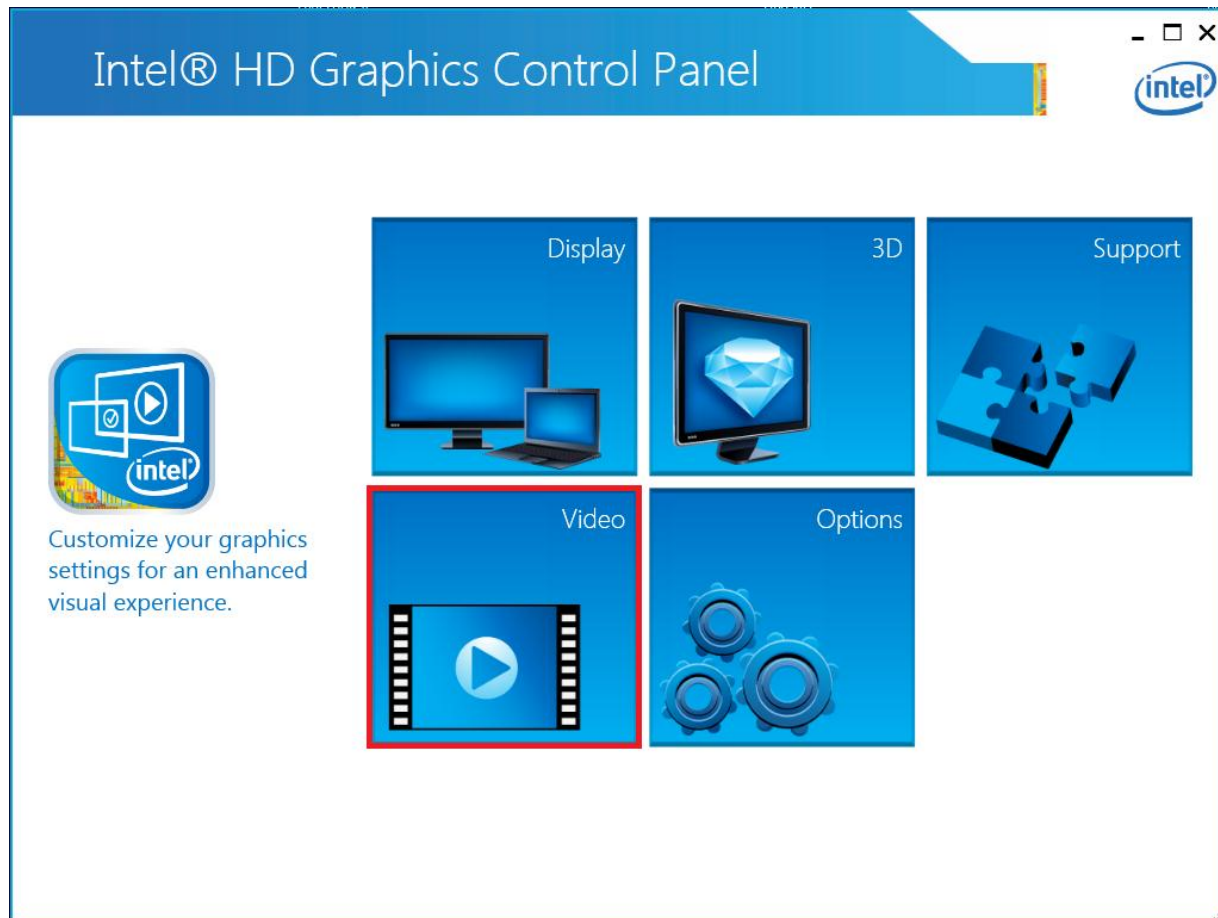


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#5 Intel® HD Graphics Control Panel → Video

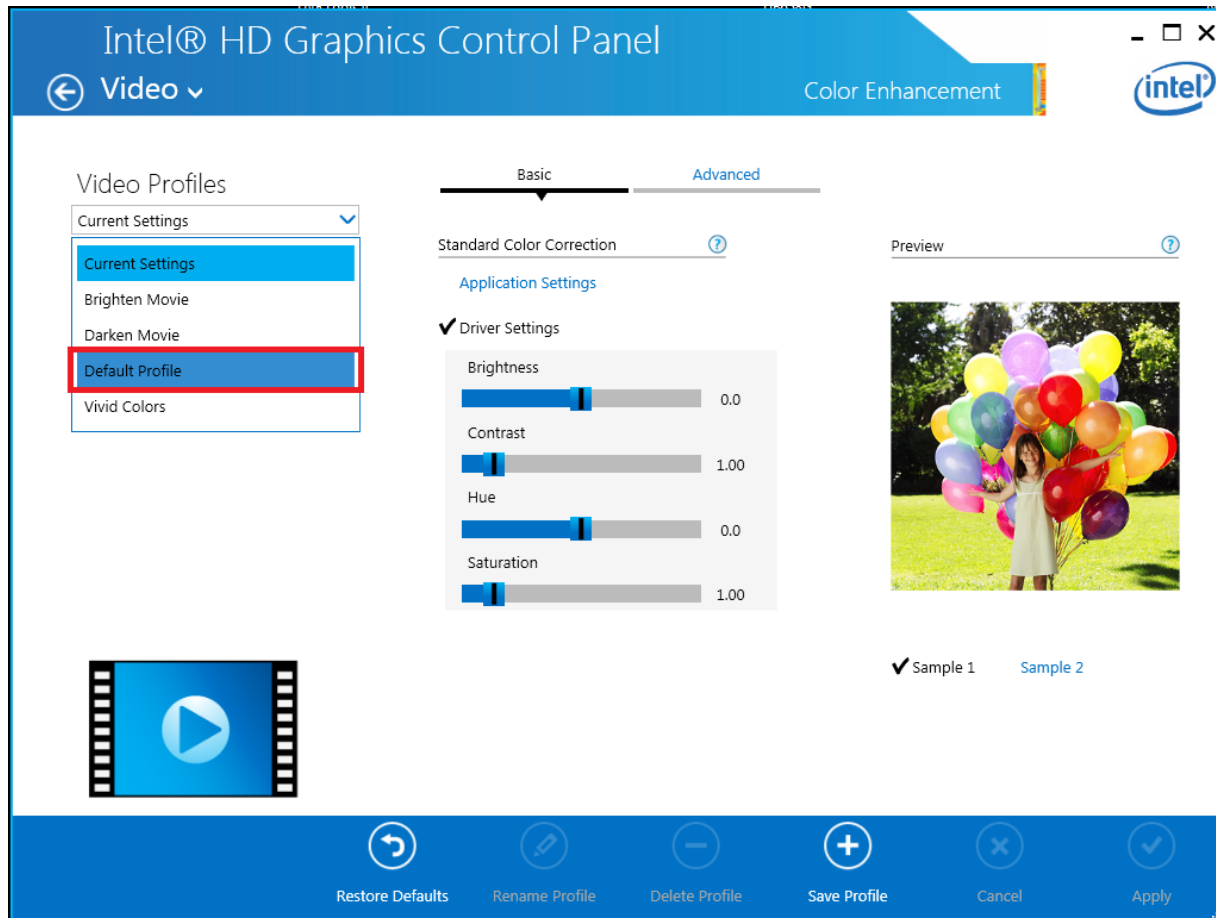


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

#6 Video profiles → Default Profile.

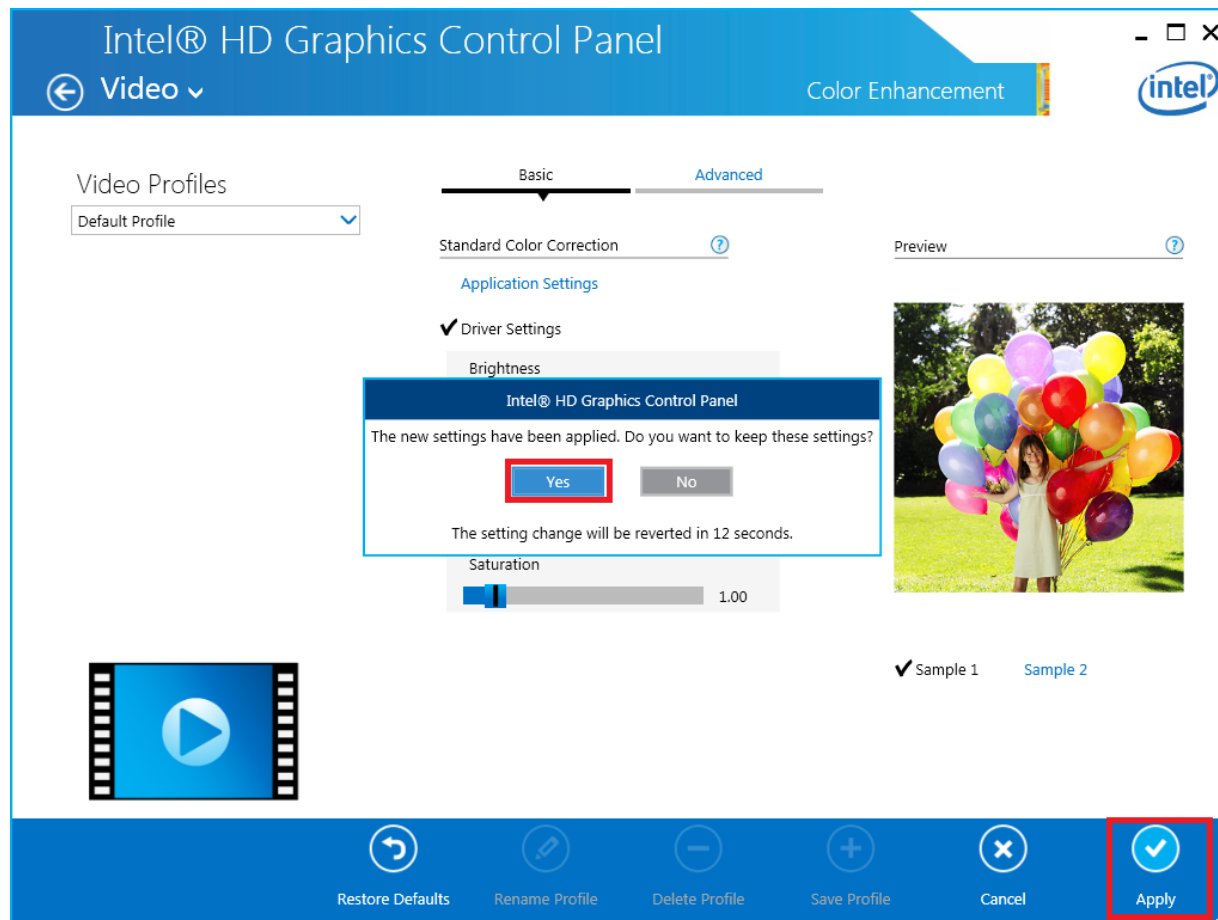


Build 3D application

◆ NOTE:

- INTEL GPU must be set as follow:

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



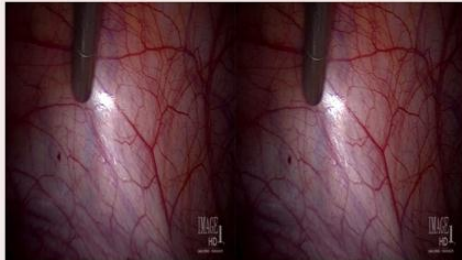
Build 3D application

◆ 3D signal:

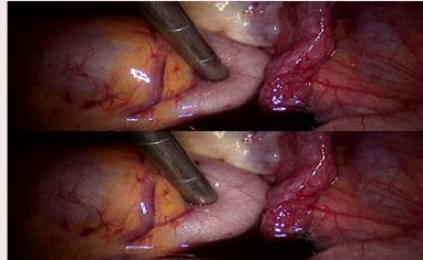
In this document, we explain and guide developer how to build 3D application that implement 3D function with 1 channel 3D stereo signal.

1CH STEREO 3D

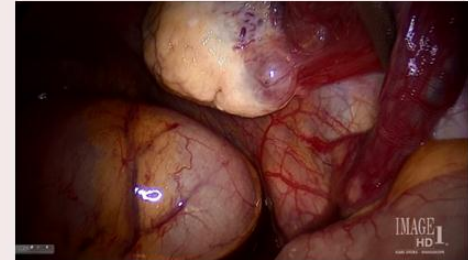
Side by side



Top bottom



Line by line



2CH 3D

Left eye, Right eye



Build 3D application

1. SC510N2.VC6.3D.DISPLAY

If user want to display one channel 3D images, user must select "QCAP_SET_VIDEO_3D_SHARE_RECORD_STEREO_UNCOMPRESSION_BUFFER" API to push un-compression video buffer into share recorder.



Build 3D application

1. SC510N2.VC6.3D.DISPLAY

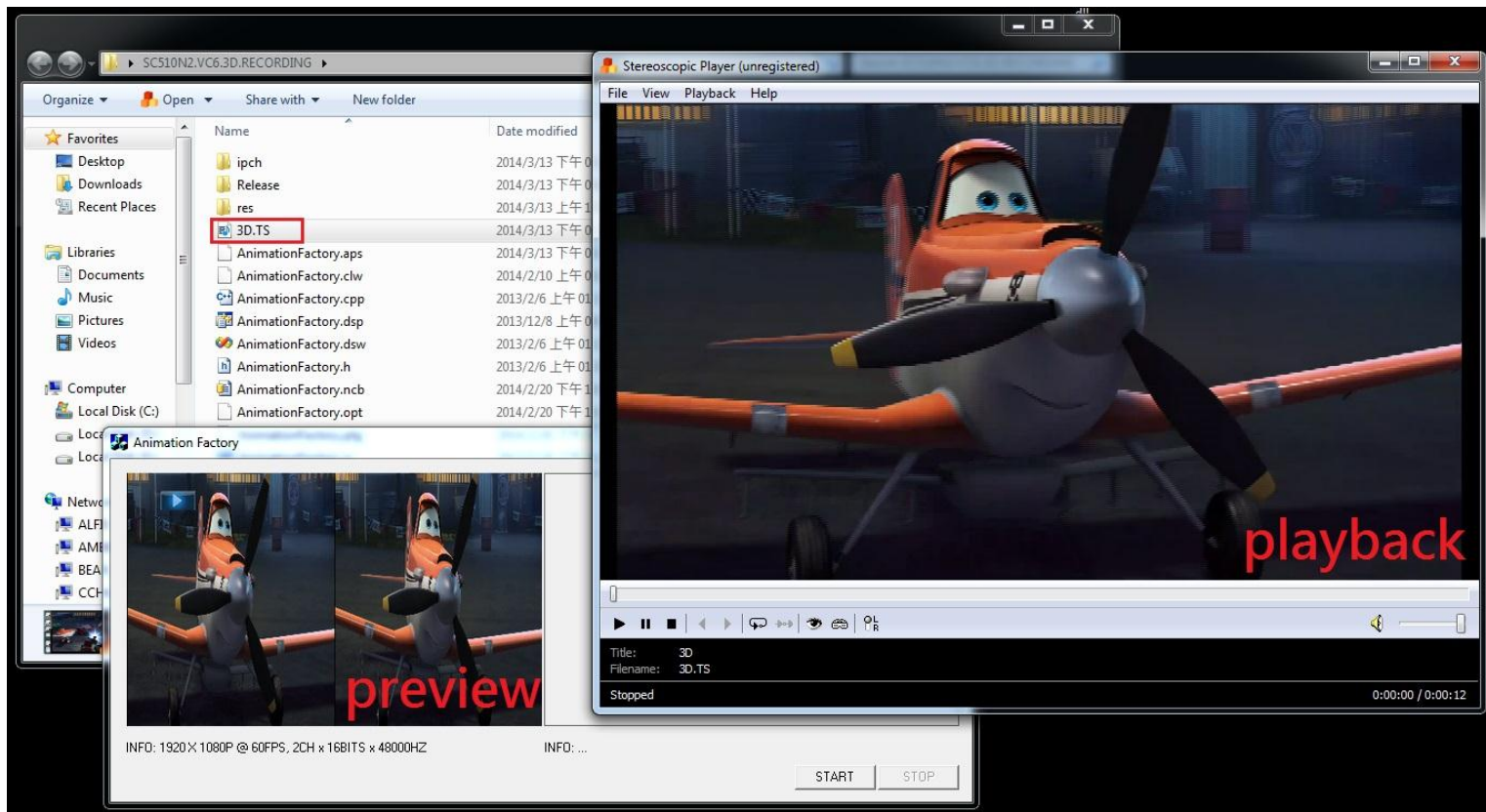
Use the 3D display function to display 1channel stereo 3D stream as show in below.



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

3. SC510N2.VC6.3D.STREAMING

If user select " QCAP_SET_VIDEO_3D_BROADCAST_SERVER_STEREO_UNCOMPRESSION_BUFFER" API, the broadcasting server & client function also applies to native 3D images from one channel.

