Overview

The USB video virtual camera application is a simple demonstration program that uses the KSDK software. It is enumerated as a camera and users can see the video of the device opened by using a PC test tool.

System Requirement

Hardware requirements

- J-Link ARM
- P&E Micro Multi-link universal
- Mini/micro USB cable
- USB A to micro AB cable
- Hardware (tower/base board, ...) for specific device
- Personal Computer(PC)

Software requirements

- The project files, for lite version example, the path is:
  <SDK_Install>/boards/<board>/usb/usb_device_video_virtual_camera_lite/<RTOS>/<toolchain>.
  For non-lite version example, the path is:
  <SDK_Install>/boards/<board>/usb/usb_device_video_virtual_camera/<RTOS>/<toolchain>.

  > **Note**
  >
  > The RTOS is BM ,or FreeRTOS.

- The PC's Test tool "QQ International". The tool's link is http://www.imqq.com/#download
  Please download the tool and intsall into your PC. Pease refer to the QQ International Beginner's Guide

  > **Note**
  >
  > The video virtual camera example is only tested in Microsoft Windows 7 Enterprise X64.

Getting Started

Hardware Settings

- The Jumper settings:
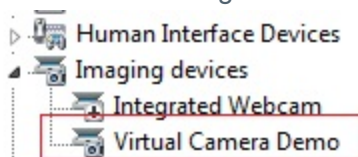 JP12 connected .

Prepare the example

1. Download the program to the target board.
2. Power off the target board. And then power on again.
3. Connect a USB cable between the PC and the USB device port of the board.

> **Note**
>
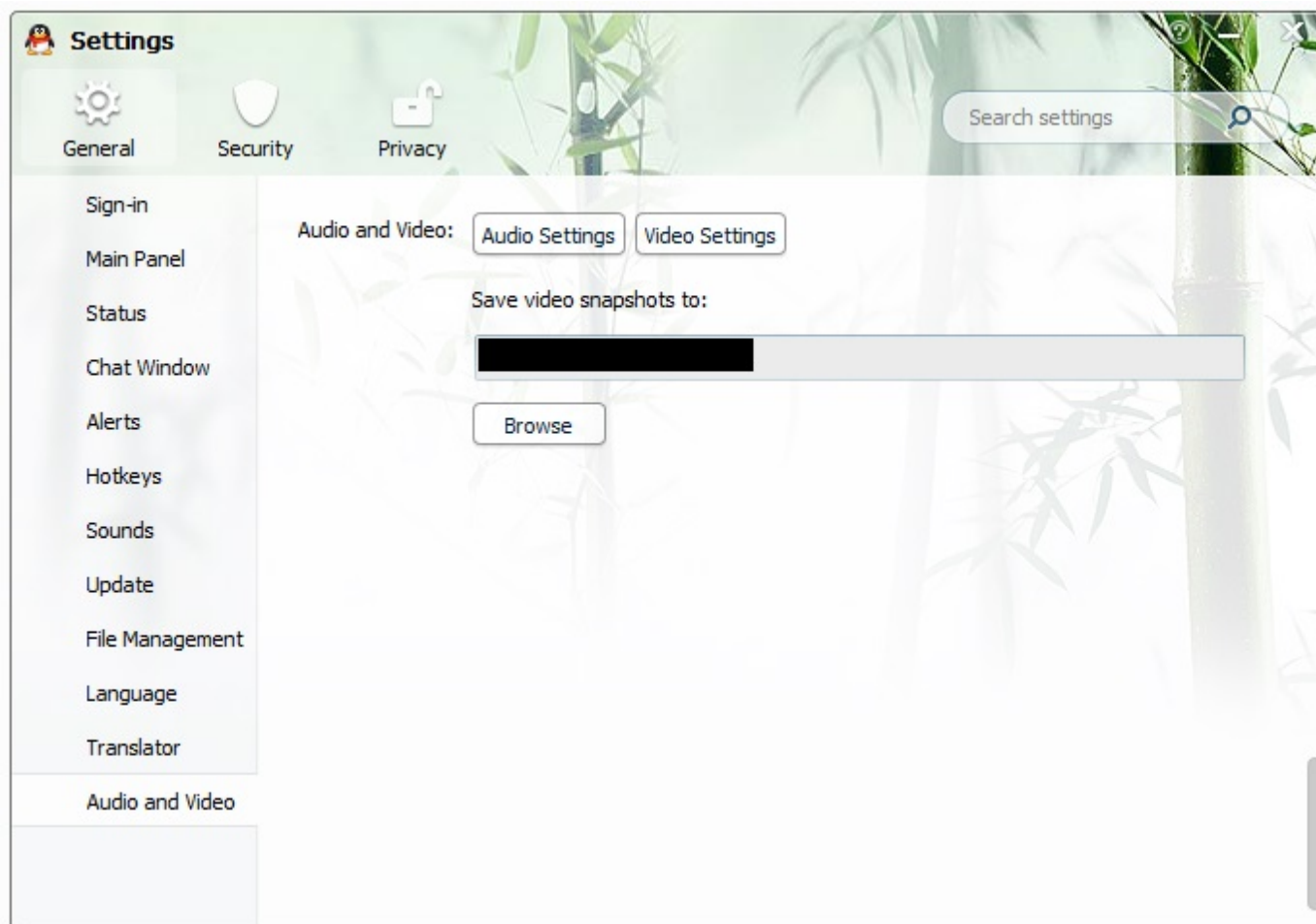> For detailed instructions, see the appropriate board User's Guide.

Run the example

1. Plug-in the device which is running video virtual camera application into PC. You will see an imaging device "Virtual Camera Demo" enumerated in Device Manager.
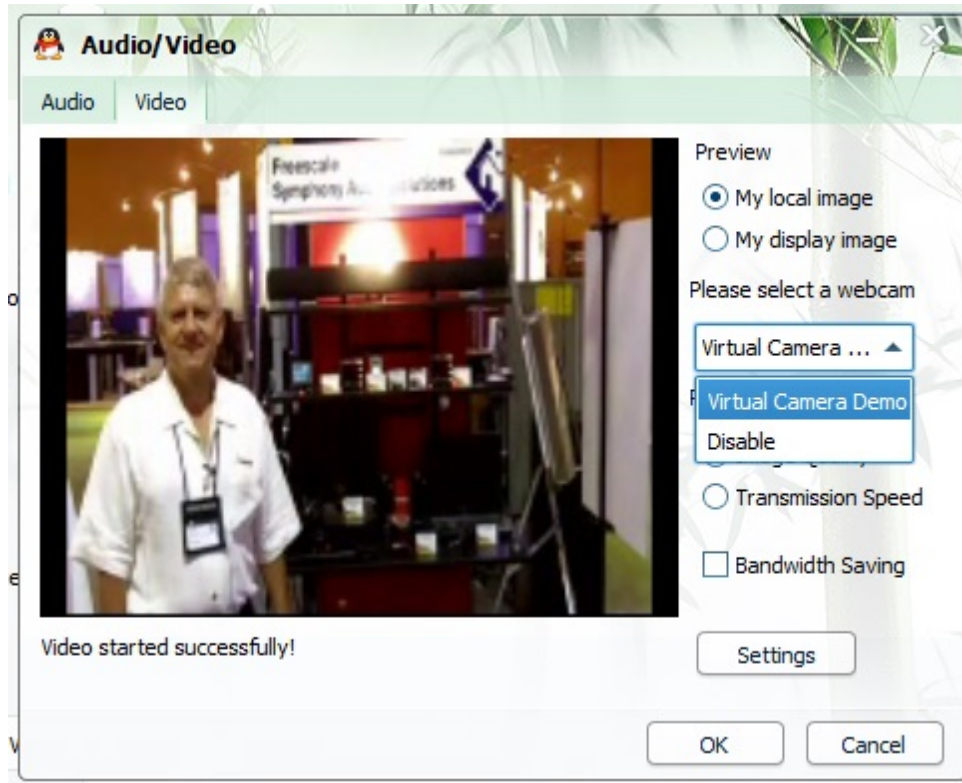

2. Open the tool "Tencent QQ" and logging in.

3. Open the video test form: Main Menu->Settings->General->Audio and Video->Video Settings.

4. And then select "Virtual Camera Demo" in DropBox. You can see the video in the form.

Note

The resolution is 176*144, the video image format is MJPEG. The frame interval includes 30, 25, 20, 15, 10, and 5, and the default frame interval is 15.