

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 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 a specific device
- Personal Computer(PC)

Software requirements

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

Note

The RTOS is BM ,or FreeRTOS.

- Download and install the PC Test tool "QQ International" from <http://www.imqq.com/#download>.
For more information, see QQ International Beginner's Guide

Note

The video virtual camera example is tested in Microsoft Windows 7 Enterprise X64.

Getting Started

Hardware Settings

- The Jumper settings:
J11 1-2.

Prepare the example

1. Download the program to the target board.
2. Connect the target board to the external power source (the example is self-powered).
3. Power off the target board. And then power on again.
4. 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 the PC. An imaging device "Virtual Camera Demo" is enumerated in the Device Manager.



Figure 1: The video device is attached

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



Figure 2: Login the test tool

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



Figure 3: Video Settings form

4. Select "Virtual Camera Demo" in DropBox. The video can be seen in the form.

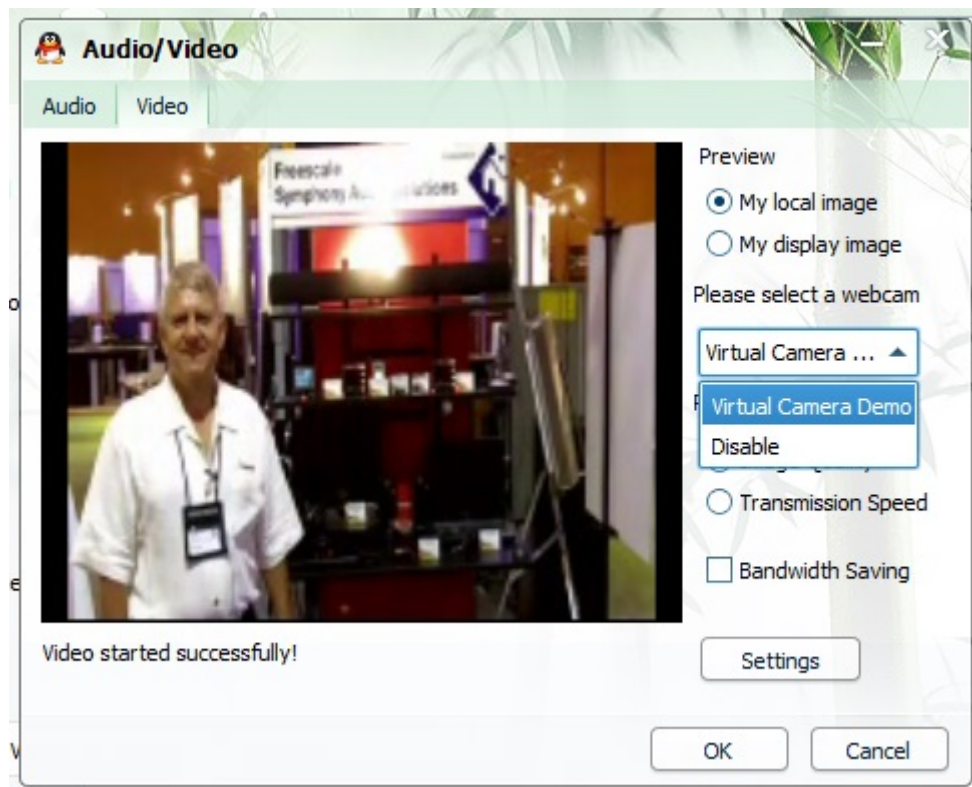


Figure 4: Open the video device

Note

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