Scope

This document describes how to test USB Device video virtual_camera example.

Preparation

Host

Personal computer running Windows 7.

Device

A board, i.e. frdmk82f, which is running dev_video_virtual_camera example.

Libraries dependency

The libraries dependency for various RTOS lists as following,

BM

Library project path:

- *<install_dir>/usb/usb_core/device/build/<tool_chain>/usbd_sdk_<board>_bm*
- *<install_dir>/lib/ksdk_platform_lib/<tool_chain>/<platform>*

FreeRTOS

Library project path:

- *<install_dir>/usb/usb_core/device/build/<tool_chain>/usbd_sdk_<board>_freertos*
- *<install_dir>/lib/ksdk_freertos_lib/<tool_chain>/<platform>*

MQX

Library project path:

- *<install_dir>/rtos/mqx/mqx/build/<tool_chain>/mqx_<board>*
- *<install_dir>/rtos/mqx/mqx_stdlib/build/<tool_chain>/mqx_stdlib_<board>*
- *<install_dir>/usb/usb_core/device/build/<tool_chain>/usbd_sdk_<board>_mqx*
- *<install_dir>/lib/ksdk_mqx_lib/<tool_chain>/<platform>*

uCOSii

Library project path:

- *<install_dir>/usb/usb_core/device/build/<tool_chain>/usbd_sdk_<board>_ucosii*

- *<install_dir>/lib/ksdk_ucosii_lib/<tool_chain>/<platform>*

uCOSiii

Library project path:

- *<install_dir>/usb/usb_core/device/build/<tool_chain>/usbd_sdk_<board>_ucosii*
- *<install_dir>/lib/ksdk_ucosiii_lib/<tool_chain>/<platform>*

Refer to **Integration of the USB Stack and Kinetis SDK.pdf(***<install_dir>/doc***)** on how to build the corresponding libraries.

Steps

Follow the steps to run the dev_video_flexio_ov7670 demo.

1. Plug-in the device which is running dev_video_virtual_camera into PC. You will see an imaging device “USB VIDEO DEMO” enumerated in Device Manager.
2. Download and install PC video test tool “QQ International”. The tool’s link is http://www.imqq.com/#download.
3. Open the tool “Tencent QQ” and logging in.
4. Open the video test form: Main Menu ->Settings->General->Audio and Video->Video Settings. And then select “USB VIDEO DEMO” in DropBox.
5. You can see the video in the form.

Note

1. 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.