1. Introduction

The **DekTec DirectShow SDK** package contains of DirectShow filters for capturing 12G/3G/HD/SD-SDI Video and Audio signals using supported DekTec hardware adapters.

A setup program is available for easy installation or upgrading of the **DekTec DirectShow SDK** software. The installation package also includes installation support for the **Dta**, **DtPcie** and **Dtu** device drivers, which are required to use the **DekTec DirectShow SDK**.

1.1. DekTec Devices Supported by the DekTec DirectShow SDK

PCI Express

DTA-2152	Dual HD-SDI/ASI Ports for PCIe
DTA-2154	Quad HD-SDI/ASI Ports for PCIe
DTA-2172	Dual 3G-SDI/ASI Ports for PCIe
DTA-2174	Quad 3G-SDI/ASI Ports for PCIe
DTA-2174B	Quad 3G-SDI/ASI Ports (1x12G) for PCIe
DTA-2175	HD-SDI/ASI Input and Output with Relay Bypass for PCIe
DTA-2178	Eight 12G-SDI/ASI Ports for PCIe
DTA-2179	Twelve 3G-SDI/ASI Ports for PCIe
DTA-2195	12G-SDI Input and Output with HDMI 2.0 for PCIe

USB

DTU-351	USB-3 HD-SDI Input Adapter

1.2. Supported applications

The **DekTec DirectShow SDK** are compatible with several software packages, for example it automatically rescales when the video input resolution doesn't match the required resolution and does also do frame-rate and deinterlacing conversion. The **DekTec DirectShow SDK** is successfully tested with the following software.

OBS	Free and open source software for video recording and live streaming www.obsproject.com
VidBlasterX	Live video production software www.vidblasterx.com
vMix	Live production and streaming software www.vmix.com
VLC	Open source platform for capturing and decoding www.videolan.org
Wirecast	Live production and streaming software www.telestream.net/wirecast

1.3. Supported input formats

The **DekTec DirectShow SDK** supports the following input formats when the connected hardware supports them:

`720x480`	59.94i
`720x576`	50i
`1280x720`	23.98p, 24p, 25p, 29.97p, 30p, 50p, 59.94p, 60p
`1920x1080`	50i, 59.94i, 60i, 23.98p, 24p, 25p, 29.97p, 30p, 50p, 59.94p, 60p, 23.98psf, 24psf, 25psf, 29.97psf, 30psf
`3840x2160`	23.98p, 24p, 25p, 29.97p, 30p, 50p, 59.94p, 60p

1.4. Files

The `DirectShowSDK.zip` archive contains the following files:

`DirectShow SDK SetUp.exe`	Setup program that installs the **DirectShow Filters** and the **Dta**, **DtPcie** and **Dtu** device drivers
`DirectShow SDK Installation.pdf`	This document

The setup program includes the following modules:

`DtDsSDI32.ax`	`v3.0.2.10`	32 bit video and audio capture filters for use with (SD/HD/3G/12G)-SDI inputs
`DtDsSDI64.ax`	`v3.0.2.10`	64 bit video and audio capture filters for use with (SD/HD/3G/12G)-SDI inputs
`Dta`	`v4.28.11.289`	Device driver system file for PCI/PCIe cards
`DtPcie`	`v3.3.0.362`	Device driver system file for PCIe cards
`Dtu`	`v4.15.4.92`	Device driver information file for USB-2/USB-3 devices
`DtapiService32.exe`	`v5.1.1.120`	DTAPI Service executable, used for device discovery

2. Installing the Software

The setup program is self-contained. Installing is as simple as running the setup executable and pressing "Next" a few times.

NOTE
- A Windows device driver can only be installed by a user account with the privilege to *load and unload device drivers*, e.g. administrator
- Please make sure that <u>no</u> application is currently running that uses a DekTec device
- For Windows 2k16, 2k19, 2k22, 10 and 11 please run the installer by right clicking the installer and selecting the "Run as administrator" option

2.1. Upgrading an Existing Installation

The setup program can also be used to upgrade an already installed **DekTec DirectShow SDK** to the latest version. No reboot should be required.

2.2. Revision History

Revision	*Date*	*Changes*
v3.0.2.10	2023.03.06	• Bugfix for vMix adapter prefix not stored persistent • Support for latest Jan2024 drivers
v3.0.1.4	2019.04.12	• Installer bugfixes for 64bit filter
v3.0.0.3	2019.03.08	• Initial release