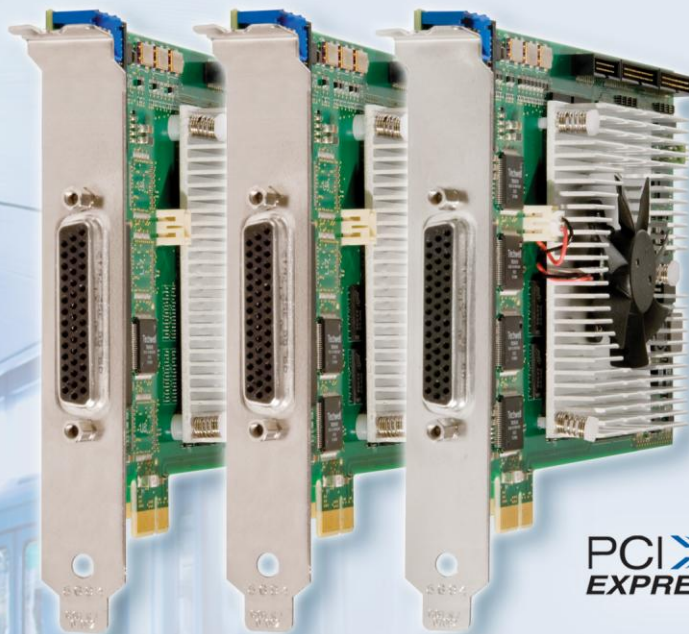


# PICOLÒ U4/U8/U16 H.264™

**Release Notes DirectShow® Driver 2.0.0.105**

**September 22, 2010**



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## 2.0.0.105

### Requirements

#### CPU Architectures

The DirectShow® Drivers support the following CPU architectures:

- Intel and AMD 32-bit x86
- Intel and AMD 64-bit x86-64

#### Operating Systems

The DirectShow® Drivers operate under the following operating systems:

OS Version	Additional Information	
Microsoft Windows 7	x86 (32-bit) Edition	-
	x86-64 (64-bit) Edition	
Microsoft Windows Vista	x86 (32-bit) Edition	SP2
	x86-64 (64-bit) Edition	SP2
Microsoft Windows XP	x86 (32-bit) Edition	SP3
	x86-64 (64-bit) Edition	SP2
Microsoft Windows Server 2008	x86 (32-bit) Edition	SP2
	x86-64 (64-bit) Edition	SP2
Microsoft Windows Server 2008 R2	x86-64 (64-bit) Edition	-

**Note:** The DirectShow Drivers allow the activation of the PAE feature of x86 and x86-64 processors used in 32-bit systems.

#### Development tools

The DirectShow® Drivers are supplied as:

- **DirectShow® filters** designed to be used with 32-bit (x86) Microsoft Visual C++ compilers for the development of 32-bit (x86) applications.
- **DirectShow® filters** designed to be used with 64-bit (x86-64) Microsoft Visual C++ compilers for the development of 64-bit (x86-64) applications.

The DirectShow® Drivers should be usable with any development tool that supports at least one of these interfaces. Please note that these programming interfaces also cover most of the available development tools used with other languages.

## *Fixes and Improvements*

### **Additional encoded streams**

Since version 2.0 of the driver, a second compressed stream is available for each video input. The stream can be accessed by simply instantiating a second Visual Source filter. See the documentation for more details.

### **I420 color format**

The number of planes and the number of bits per pixel is not correctly defined in the I420 color format. This issue has been solved.

### **IYUV color format**

The IYUV color format appears in the listed formats but is not supported. It has been removed from the listed formats.

### **Long shutdown delay**

Computer shutdown is abnormally long when the driver is installed. This issue has been solved.

## *Known Issues*

### **Installation**

#### ***Network connection icon appears after installation process (Microsoft Windows XP)***

After the PicoU4 H.264 PCI-104 installation on a Microsoft Windows XP-based computer, a Local Area Connection 2 icon may be created in the View Network Connections section in My Network Places. The information that is displayed below this icon describes the connection as Microsoft TV/Video Connection.

As a workaround, restart the computer. After restarting, the Local Area Connection 2 icon does not appear.

#### ***Accessing the driver with a 32-bit application running on a 64-bit OS is not supported***

Accessing the driver with a 32-bit application running on a 64-bit OS is not supported, even if the filters are visible. The reason is that the user mode 32-bit .ax files are not registered on 64-bit OS.

As a workaround, use 64-bit application on 64-bit OS to access the driver.

## GraphEdit

### ***Setting PAL standard in GraphEdit***

When setting PAL format in GraphEdit, it is required to press the [Apply] button on the pin to get the graph running.

## Visual Source Filter

### ***Setting Decimation Parameter (Microsoft Windows 7)***

When setting decimation to a value greater than 3, video is not yet refreshed.

## 1.4.0.101

### Requirements

#### CPU Architectures

The DirectShow® Drivers support the following CPU architectures:

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#### Operating Systems

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#### Development tools

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The DirectShow® Drivers should be usable with any development tool that supports at least one of these interfaces. Please note that these programming interfaces also cover most of the available development tools used with other languages.

## *Fixes and Improvements*

### **Corrupted image using a VMR renderer**

When the formatted pin is directly connected to a VMR render, the image can appear corrupted in some planar formats. This issue has been solved.

## *Known Issues*

### **Installation**

#### ***Network connection icon appears after installation process (Microsoft Windows XP)***

After the Pico U4 H.264 PCI-104 installation on a Microsoft Windows XP-based computer, a Local Area Connection 2 icon may be created in the View Network Connections section in My Network Places. The information that is displayed below this icon describes the connection as Microsoft TV/Video Connection.

As a workaround, restart the computer. After restarting, the Local Area Connection 2 icon does not appear.

#### ***Accessing the driver with a 32-bit application running on a 64-bit OS is not supported***

Accessing the driver with a 32-bit application running on a 64-bit OS is not supported, even if the filters are visible. The reason is that the user mode 32-bit .ax files are not registered on 64-bit OS.

As a workaround, use 64-bit application on 64-bit OS to access the driver.

### **GraphEdit**

#### ***Setting PAL standard in GraphEdit***

When setting PAL format in GraphEdit, it is required to press the [Apply] button on the pin to get the graph running.

### **Visual Source Filter**

#### ***Setting Decimation Parameter (Microsoft Windows 7)***

When setting decimation to a value greater than 3, video is not yet refreshed.



## 1.4.0.99

### Requirements

#### CPU Architectures

The DirectShow® Drivers support the following CPU architectures:

- Intel and AMD 32-bit x86
- Intel and AMD 64-bit x86-64

#### Operating Systems

The DirectShow® Drivers operate under the following operating systems:

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	x86-64 (64-bit) Edition	SP2
Microsoft Windows Server 2008 R2	x86-64 (64-bit) Edition	-

**Note:** The DirectShow Drivers allow the activation of the PAE feature of x86 and x86-64 processors used in 32-bit systems.

#### Development tools

The DirectShow® Drivers are supplied as:

- **DirectShow® filters** designed to be used with 32-bit (x86) Microsoft Visual C++ compilers for the development of 32-bit (x86) applications.
- **DirectShow® filters** designed to be used with 64-bit (x86-64) Microsoft Visual C++ compilers for the development of 64-bit (x86-64) applications.

The DirectShow® Drivers should be usable with any development tool that supports at least one of these interfaces. Please note that these programming interfaces also cover most of the available development tools used with other languages.

## Fixes and Improvements

### Corrupted image using a VMR renderer

When the formatted pin is directly connected to a VMR render, the image can appear corrupted. This issue has been solved.

### Event is dispatched to all inputs

When registering for a Video Detection event on a dedicated video input, the event is generated when it occurs on any video input. This issue has been solved.

## Known Issues

### Installation

#### **Network connection icon appears after installation process (Microsoft Windows XP)**

After the Pico UX H.264 installation on a Microsoft Windows XP-based computer, a Local Area Connection 2 icon may be created in the View Network Connections section in My Network Places. The information that is displayed below this icon describes the connection as Microsoft TV/Video Connection.

As a workaround, restart the computer. After restarting, the Local Area Connection 2 icon does not appear.

#### **Accessing the driver with a 32-bit application running on a 64-bit OS is not supported**

Accessing the driver with a 32-bit application running on a 64-bit OS is not supported, even if the filters are visible. The reason is that the user mode 32-bit .ax files are not registered on 64-bit OS.

As a workaround, use 64-bit application on 64-bit OS to access the driver.

### GraphEdit

#### **Setting PAL standard in GraphEdit**

When setting PAL format in GraphEdit, it is required to press the [Apply] button on the pin to get the graph running.

### Visual Source Filter

#### **Setting Decimation Parameter (Microsoft Windows 7)**

When setting decimation to a value greater than 3, video is not yet refreshed.

***Black Screen on Formatted Pin (Microsoft Windows XP)***

If Scale parameter is equal to 4CIF or 2CIF and Color Format is I420 or IYUV, the video rendered can remain black.

As a workaround, use the YV12 format.

***Corrupted image with YUY2 color format***

When the formatted pin is connected to a renderer using color format YUY2, the image can appear corrupted.

As a workaround, use the YV12 format.

**Board Source Filter*****Getting Board Type parameter***

Board Type parameter only returns "Picolo Ux H.264" value instead of the correct board name. This will be fixed in a future release, relying on the returned value may create a minor compatibility issue.

## 1.4.0.97

### Requirements

#### CPU Architectures

The DirectShow® Drivers support the following CPU architectures:

- Intel and AMD 32-bit x86
- Intel and AMD 64-bit x86-64

#### Operating Systems

The DirectShow® Drivers operate under the following operating systems:

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Microsoft Windows Server 2008 R2	x86-64 (64-bit) Edition	-

**Note:** The DirectShow Drivers allow the activation of the PAE feature of x86 and x86-64 processors used in 32-bit systems.

#### Development tools

The DirectShow® Drivers are supplied as:

- **DirectShow® filters** designed to be used with 32-bit (x86) Microsoft Visual C++ compilers for the development of 32-bit (x86) applications.
- **DirectShow® filters** designed to be used with 64-bit (x86-64) Microsoft Visual C++ compilers for the development of 64-bit (x86-64) applications.

The DirectShow® Drivers should be usable with any development tool that supports at least one of these interfaces. Please note that these programming interfaces also cover most of the available development tools used with other languages.

## *Fixes and Improvements*

### General

Release 1.4.0.97 is the first official release.

## *Known Issues*

### Installation

#### ***Network connection icon appears after installation process (Microsoft Windows XP)***

After the Pico UX H.264 installation on a Microsoft Windows XP-based computer, a Local Area Connection 2 icon may be created in the View Network Connections section in My Network Places. The information that is displayed below this icon describes the connection as Microsoft TV/Video Connection.

As a workaround, restart the computer. After restarting, the Local Area Connection 2 icon does not appear.

#### ***Accessing the driver with a 32-bit application running on a 64-bit OS is not supported***

Accessing the driver with a 32-bit application running on a 64-bit OS is not supported, even if the filters are visible. The reason is that the user mode 32-bit .ax files are not registered on 64-bit OS.

As a workaround, use 64-bit application on 64-bit OS to access the driver.

### GraphEdit

#### ***Setting PAL standard in GraphEdit***

When setting PAL format in GraphEdit, it is required to press the [Apply] button on the pin to get the graph running.

### Visual Source Filter

#### ***Setting Decimation Parameter (Microsoft Windows 7)***

When setting decimation to a value greater than 3, video is not yet refreshed.

#### ***Black Screen on Formatted Pin (Microsoft Windows XP)***

If Scale parameter is equal to 4CIF or 2CIF and Color Format is YUV, the video rendered can remain black.

As a workaround, instantiate the AVI Decompressor, connect it directly to the Pico UX H.264 Formatted pin, then render the output pin of the AVI Decompressor.

***Corrupted image using a VMR renderer***

When the formatted pin is directly connected to a VMR render, the image can appear corrupted. This problem may occur depending on the graphic card.

As a workaround, insert the Color Space Converter Filter between the Picolo Visual Source and the VMR renderer Filter.

***Event is dispatched to all inputs***

When registering for a Video Detection event on a dedicated video input, the event is generated when it occurs on any video input. The same problem occurs on I/O lines.

As a workaround, use a polling mechanism to monitor the status of the inputs.

**Board Source Filter*****Getting Board Type parameter***

Board Type parameter only returns "Picolo Ux H.264" value instead of the correct board name. This will be fixed in a future release, relying on the returned value may create a minor compatibility issue.