

<u>Properties</u> <u>Methods</u> <u>Events</u>

#### Unit

EnhAviCap

#### Description

The TEnhAviCap component handles video display and capture with video for windows devices.

#### Shareware

Please, note that this component is shareware. You can try it to see if it fits your needs but you can't sell nor use it in commercial programs. To make a long story short: you can't gain money through this component.

The component will work correctly while Delphi 2 is running.

The registration fee is, at present, 29 US\$, but, for updated infos and special offers look on the web. Over the web, you can find how to register this component at <a href="http://ascu.unian.it/~milani/delphi">http://ascu.unian.it/~milani/delphi</a> If the above link should ever be moved, try looking at the DSP (Delphi Super Page)
<a href="http://sunsite.icm.edu.pl/delphi">http://sunsite.icm.edu.pl/delphi</a>.

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## **Properties**

CapDriversFpsPreviewScaledCaptureAudioIsCapturingVFWVersion

<u>CapWnd</u> <u>OkToCapture</u>

ConnectAsOverlayDepthPreview

**Events** 

<u>OnFrame</u>

#### Methods

CanOverlayDlgCompressionOpenVideoCaptureStartDlgDisplayToClipboard

CaptureStopDlgFormatCloseVideoDlgSourceConnectDriverIsOpen

## **CapDrivers**

#### **Declaration**

property CapDrivers: TStringList;

### Description

Run-time and read-only. The CapDrivers property contains the names of the installed video for windows devices.

# **CaptureAudio**

### Declaration

property CaptureAudio: boolean;

## Description

Selects if audio capture should be enabled when capturing to an AVI file.

## CapWnd

Declaration

property CapWnd: HWnd;

## Description

Run-time and read-only. The CapWnd property contains the handle to the opened AVIWnd. Use it to access special features.
Usually you won't need this property.

### **ConnectAs**

#### Declaration

property ConnectAs: TEACConnectAs;

#### Description

The ConnectAs property specifies how will be opened the device. Possibile values are:

- caNone to use the default state for the device
- caPreview to open the device in the preview state
- caOverlay to open the device in the overlay state

Consider that some devices don't support the overlay or the preview state.

## **Depth**

#### Declaration

property Depth: TEACVideoBits ;

### Description

The depth property specifies how many bits per pixel will be in the captured image. Possible values are:
- vd8bits to get 256 colors images
- vd16bits to get 65536 colors images
- vd24bits to get true-color images

## **Fps**

### Declaration

property Fps: integer;

## Description

The fps property specifies how many frames per second will be shown or captured.

Consider that some devices will override this value.

# **IsCapturing**

#### Declaration

property IsCapturing: boolean;

## Description

Run-time and read-only. The IsCapture property lets you know whether the device is capturing or not.

## **OkToCapture**

Declaration

property OkToCapture: boolean;

## Description

The OkToCapture specifies if the user will be prompted to press the OK button when capture starts.

# **Overlay**

## Declaration

property overlay: boolean;

## Description

Run-time. The overlay property can be used to set or read the overlay state for an opened device.

## **Preview**

Declaration

property preview: boolean;

## Description

Run-time. The preview property can be used to set or read the preview state for an opened device.

## **PreviewScaled**

#### Declaration

property PreviewScaled: boolean;

#### Description

Run-time. The PreviewScaled property can be used to set or read the scaled state for an open device in the preview state.

Consider that some devices may not be able to handle scaled preview.

## **VFWVersion**

#### Declaration

property VFWVersion: string;

#### Description

Run-time and read-only. The VFWVersion property returns the installed video for windows version. This is the version of the main core of video for windows. Informations about a specific device can be found in the CapDrivers property.

# CanOverlay

## Declaration

function CanOverlay: boolean;

## Description

Returns true if the opened device is able to show video using overlay.

# **CaptureStart**

### Declaration

procedure CaptureStart(AFileName: string);

## Description

Starts recording video to the specified AVI file.

# CaptureStop

Declaration
procedure CaptureStop;

## Description

Stops recording video to an AVI file.

## CloseVideo

Declaration
procedure CloseVideo;

## Description

Closes the video device previously opened with OpenVideo.

## ConnectDriver

#### Declaration

function ConnectDriver(DriverID: integer): boolean;

### Description

Changes the device presently connected with an open video window by connecting it with another device.

# **DIgCompression**

#### Declaration

function DlgCompression: boolean;

### Description

Shows the compression dialog owned by the active device and returns true if successfull.

# **DlgDisplay**

### Declaration

function DlgDisplay: boolean;

## Description

Shows the display dialog owned by the active device and returns true if successfull.

# **DigFormat**

### Declaration

function DlgFormat: boolean;

### Description

Shows the format dialog owned by the active device and returns true if successfull.

# **DIgSource**

### Declaration

function DlgSource: boolean;

### Description

Shows the source dialog owned by the active device and returns true if successfull.

## **IsOpen**

#### Declaration

function IsOpen: boolean;

#### Description

Returns true if a device is currently open.

Consider that it may happen (though I never saw it happening...) that a failed call to <u>ConnectDriver</u> lead to an ambiguous state in which IsOpen returns true, but no device is actually connected.

## **OpenVideo**

#### Declaration

procedure OpenVideo(DriverID: integer);

#### Description

Opens a new window connecting it to the specified driver. You can open any device whose number lies between 0 and <u>CapDrivers.count-1</u>. The window is opened with the size (width and height) of the component and, therefore, you have to size correctly the component BEFORE opening it.

# **ToClipboard**

## Declaration

function ToClipboard: boolean;

## Description

Copies to the clipboard the frame that is being shown.

#### **OnFrame**

Example

#### Declaration

```
TOnFrameEvent = procedure(Sender: TObject;h: THandle;VHdr: PVideoHdr) of
object;
property OnFrame: TOnFrameEvent;
```

#### Description

This event handler receives a handle H to a DIB that contains the frame to be shown.

The TEnhAviCap component does its most to handle compressed and encoded frames and will always return a correct DIB even if the device uses a hardware compressor.

The VHdr structure points to raw data as it is passed back from the device itself.

Use great care with this event as several devices behave differently.

The TVideoHdr structure defines the header used to identify a video-data buffer.

#### **IpData**

Specifies a far pointer to the video-data buffer.

#### dwBufferLength

Specifies the length of the data buffer.

#### dwBytesUsed

Specifies the number of bytes used in the data buffer.

#### dwTimeCaptured

Specifies the time (in milliseconds) when the frame was captured relative to the first frame in the stream.