

**DVP-7010**  
**4 Channel PCI-bus**  
**Video Grabber Card**  
**User's Manual**

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## **CE notification**

The DVP-7010, developed by ADVANTECH CO., LTD., has passed the CE test for environmental specifications when shielded cables are used for external wiring. We recommend the use of shielded cables. This kind of cable is available from Advantech. Please contact your local supplier for ordering information.

## **On-line Technical Support**

For technical support and service, please visit our support website at:  
**<http://www.advantech.com/support>**

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**CHAPTER**

**1**

## **General Information**

# Chapter 1 General Information

Thank you for buying the Advantech DVP-7010. The DVP-7010 is a 4 channels input, PCI bus digital video grabber card. It supporting NTSC / PAL (NTSC-M, NTSC-Japan, PAL-B, PAL-D, PAL-G, PAL-H, PAL-I, PAM-M, PAL-N)/SECAM video input also built-in Watchdog timer function to prevent system crash. The DVP-7010 captures 30 fps/channel (PAL format: 25 fps/channel). The DVP-7010 has extensive functionalities such as multiple resolutions, providing high-quality and raising reliability to a new level, allowing OEMs and system integrators to build powerful, yet cost-effective surveillance solutions. The following sections of this chapter will provide further information about features of the multifunction cards, a Quick Start for installation, together with some brief information on software and accessories for the DVP-7010 card.

## 1.1 Hardware Requirement

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- ◆ Intel Pentium III 1GHz or above (The CPU speed is depends on the video frame rate, channels and resolution)
- ◆ 128MB RAM or above
- ◆ Free PCI slot(s)
- ◆ CD-ROM
- ◆ Hard disk with 1GB free space

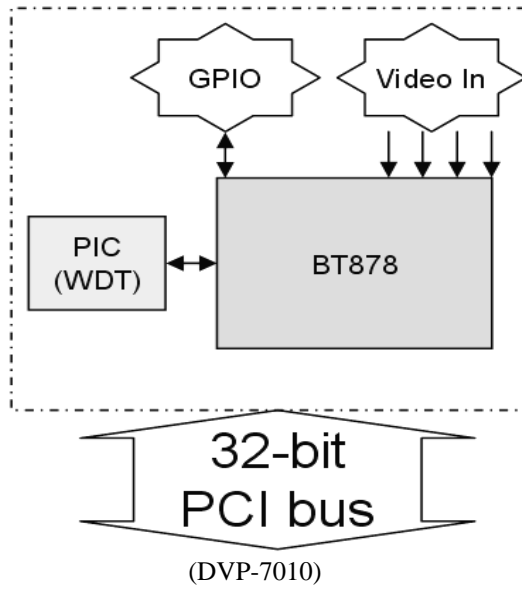
## 1.2 Software Requirement

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- ◆ Microsoft Windows 98/ME/2000/XP with DirectX 8.1 or above

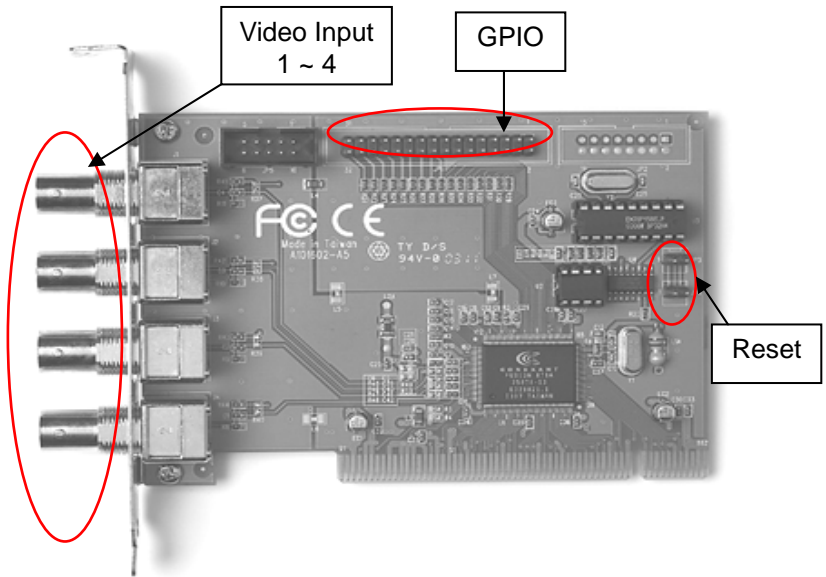
## 1.3 Block Diagram

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## 1.4 Jumper/Connector Location

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## 1.5 Packing List

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- ◆ DVP-7010 / 7020 PCI-bus Video Capture card
- ◆ CD Disk for manual / driver / SDK
- ◆ User's Manual
- ◆ Reboot Cable for Watchdog function



## 1.6 Watchdog Function

---

The Watchdog function is a fail-protection system which built-in DVP-7010 / 7020. There are two connectors on our boards. One is connecting to the RESET switch on chassis and the others to RESET-pin on main board. Please reference the programming function description of [Adv\\_VAPI\\_SetWDT](#) for detail information

## 1.7 GPIO Function

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The GPIO (JP1) are TTL compatible signal, programmer can uses these I/O for alarm detecting or output.

### I/O connector signal descriptions

Pi n #	Function	Pi n #	Function	Pi n #	Function	Pi n #	Function
1	GPIO_8	9	GPIO_12	17	GND	25	GND
2	GND	10	GND	18	GPIO_7	26	GPIO_3
3	GPIO_9	11	GPIO_13	19	GND	27	GND
4	GND	12	GND	20	GPIO_6	28	GPIO_2
5	GPIO_10	13	GPIO_14	21	GND	29	GND
6	GND	14	GND	22	GPIO_5	30	GPIO_1
7	GPIO_11	15	GPIO_15	23	GND	31	GND
8	GND	16	GND	24	GPIO_4	32	GPIO_0

## 1.8 Hardware Installation

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1. Turn off your computer and unplug the power cord.
2. Remove the cover of your computer.
3. Remove the slot cover on the back panel of your computer.
4. Touch the metal part on the surface of your computer to neutralize the static electricity that might be on your body.

5. Insert the DVP-7010 / 7020 card into an unused PCI slot. Hold the card only by its edges and carefully align it with the slot. Insert the card firmly into place. Use of excessive force must be avoided; otherwise the card might be damaged.
6. Fasten the bracket of the PCI card on the back panel rail of the computer with screws.
7. Connect appropriate accessories (Video cable to camera, if necessary) to the PCI card.
8. Replace the cover of your computer chassis.
9. Plug in the power cord and turn on the computer...
10. Remove the original BT878 driver before the card installed if it is present.

**Note:**

Keep the anti-static bag for future use. You might need the original bag to store the card if you have to remove the card from the PC or transport it elsewhere.

## **1.9 Software / Driver Installation**

### **Before you begin**

To facilitate the installation of the enhanced display device drivers and utility software, you should read the instructions in this chapter carefully before you attempt installation. The device drivers for the DVP-7010 board are located on the software installation CD. The auto-run function of the driver

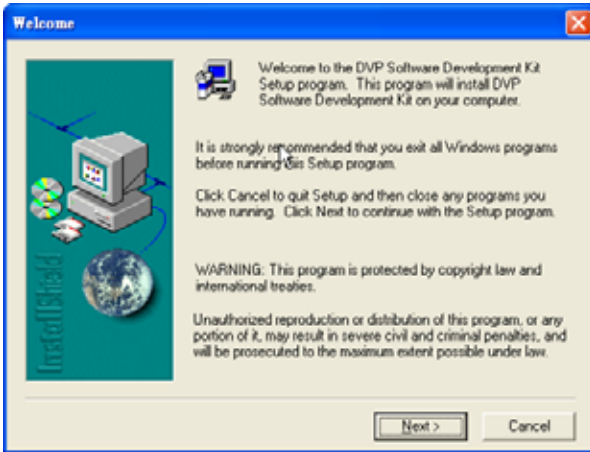
CD will guide and link you to the utilities and device drivers under Windows system.

Before you begin, it is important to note that most display drivers need to have the relevant software application already installed in the system prior to installing the enhanced display drivers. In addition, many of the installation procedures assume that you are familiar with both the relevant software applications and operating system commands. Review the relevant operating system commands and the pertinent sections of your application software user's manual before performing the installation.

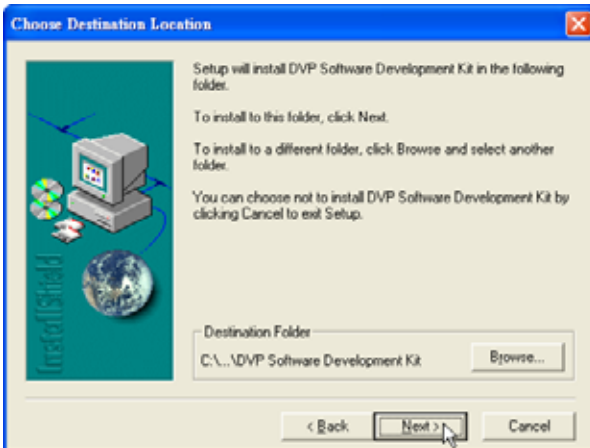
## **Installing**

1. Insert the driver CD into your system's CD-ROM drive. In a few seconds, the software installation main menu appears. Move the mouse cursor over the "Manual" button under the "SETUP" heading, a message pops up telling you to start the installation.

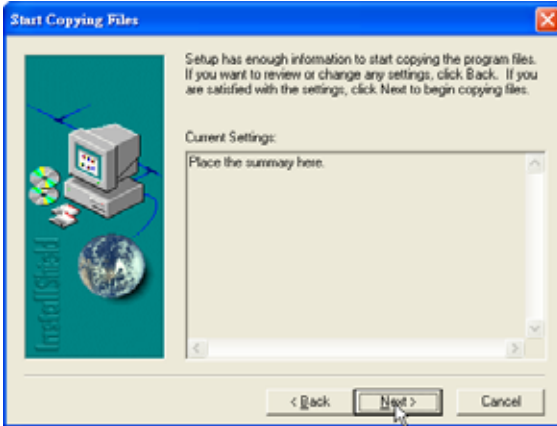
2. Click "Next" when you see the following message.



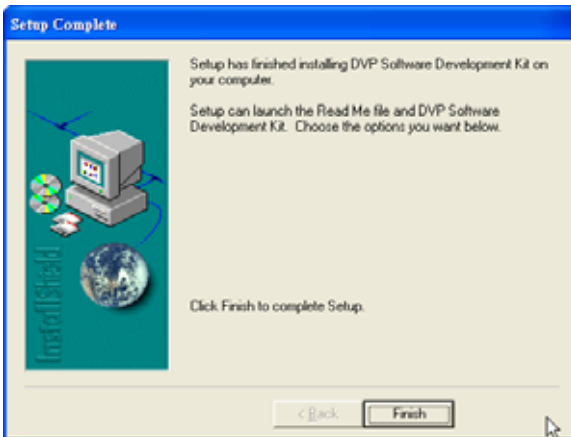
3. Click "Next" when you see the following message.



4. Click "Next" when you see the following message.



5. When the following message appears, click "Finish" to complete the installation and restart Windows.





CHAPTER

2

## Functions Library

# Chapter 2 Functions Library

## 2.1 Summary Tables

The following table summarizes the functions that belong to Advantech VAPI (Video Application Program Interface) library. Functions are grouped by tasks you might wish to perform.

### Initialized and Close Functions:

Name	Description
<a href="#">Adv_VAPI_Init</a>	Initialize the library
<a href="#">Adv_VAPI_Close</a>	Close the library

### Port Configurative Functions:

Name	Description
<a href="#">Adv_VAPI_SetCurrentPort</a>	Set the current card number and port number
<a href="#">Adv_VAPI_GetCurrentCard</a>	Get current card number
<a href="#">Adv_VAPI_GetCurrentPort</a>	Get current port number
<a href="#">Adv_VAPI_SetPortType</a>	Assign a device to the current port
<a href="#">Adv_VAPI_GetPortType</a>	Get the current device on the current port
<a href="#">Adv_VAPI_SetVideoFormat</a>	Set the video format on the current port
<a href="#">Adv_VAPI_SetCaptureSize</a>	Set the video capturing size on the current port
<a href="#">Adv_VAPI_GetVideoFormat</a>	Get the video format on the current port
<a href="#">Adv_VAPI_GetCaptureSize</a>	Get the video capturing size on the current port



Name	Description
<a href="#">Adv_VAPI_SetBrightness</a>	Set the video brightness value for a specified channel
<a href="#">Adv_VAPI_SetSaturation</a>	Set the video saturation value for a specified channel
<a href="#">Adv_VAPI_SetContrast</a>	Set the video contrast value for a specified channel
<a href="#">Adv_VAPI_SetHue</a>	Set the video hue value for a specified channel
<a href="#">Adv_VAPI_GetBrightness</a>	Get the video brightness value for a specified channel
<a href="#">Adv_VAPI_GetSaturation</a>	Get the video saturation value for a specified channel
<a href="#">Adv_VAPI_GetContrast</a>	Get the video contrast value for a specified channel
<a href="#">Adv_VAPI_GetHue</a>	Get the video hue value for a specified channel

### **Channel Capture Setting Functions:**

Name	Description
<a href="#">Adv_VAPI_SetCaptureWindow</a>	Set the video capturing window handle to a specified channel
<a href="#">Adv_VAPI_SetCaptureBuffer</a>	Set the video capturing buffer address to a specified channel
<a href="#">Adv_VAPI_SetCaptureFile</a>	Set the video capturing file handle to a specified channel
<a href="#">Adv_VAPI_SetCaptureCallback</a>	Set the video capturing callback function to a specified channel
<a href="#">Adv_VAPI_GetCaptureStatus</a>	Get the capturing status of a specified channel

### **Port Capture Functions:**

<b>Name</b>	<b>Description</b>
<a href="#">Adv_VAPI_SetCaptureSource</a>	Set the video capture source on the current port
<a href="#">Adv_VAPI_GetCaptureSource</a>	Get the video capture source on the current port
<a href="#">Adv_VAPI_CaptureStart</a>	Start the video capture on the current port
<a href="#">Adv_VAPI_CaptureStop</a>	Stop the video capture on the current port
<a href="#">Adv_VAPI_EnableVideoSource</a>	Switch the video source on or off
<a href="#">Adv_VAPI_GetVideoSignal</a>	Check the video signal available

### **Port GPIO Functions:**

<b>Name</b>	<b>Description</b>
<a href="#">Adv_VAPI_GPIOInit</a>	Initialize the direction of GPIO on the current port
<a href="#">Adv_VAPI_GPIOGetDirect</a>	Get the direction of GPIO on the current port
<a href="#">Adv_VAPI_SetGPIOData</a>	Set the GPIO data on the current port
<a href="#">Adv_VAPI_GetGPIOData</a>	Get the GPIO data on the current port

### **Port Watchdog Functions:**

<b>Name</b>	<b>Description</b>
<a href="#">Adv_VAPI_SetWDT</a>	Set the watchdog state on the current port

### **Error Debug Functions:**

<b>Name</b>	<b>Description</b>
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<a href="#">Adv_VAPI_GetLastError</a>	Get the last error code
<a href="#">Adv_VAPI_ErrorMsg</a>	Display the last error message if failed

## **2.2 Programming Functions Reference**

There are three programming languages for your reference: C++, Delphi and Visual BASIC, and also we provides sample program within our bundle CD.

### **Adv\_VAPI\_Init**

#### **Syntax**

*[C++]*

*BOOL Adv\_VAPI\_Init(DWORD \*pdwVer)*

*[Delphi]*

*function Adv\_VAPI\_Init(var dwVer:Longword):Boolean;*

*[VB]*

*function Adv\_VAPI\_Init (ByRef pdwVer As Long) As Boolean*

#### **Parameters**

pdwVer : Specifies the pointer of DWORD. It will be assigned to the version number of this library. For example, if assigned value 0x10000, it represents Version 1.00. Now the version is 0x10000,

#### **Return Value**

TRUE : Initialization is successful  
 FALSE : Initialization is failed

#### **Description**

This function will initialize and allocate the library variables and resources. You must call this function before calling other functions.

#### **Example**

DWORD dwVer;

```
    ...
if (Adv_VAPI_Init(&dwVer))
{ // Success
    ...
}
else // Fail
    Adv_VAPI_GetLastError(NULL);
```

**See Also**

[Adv\\_VAPI\\_Close](#)

## Adv\_VAPI\_Close

### **Syntax**

**[C++]**

*void Adv\_VAPI\_Close(void)*

**[Delphi]**

*procedure Adv\_VAPI\_Close;*

**[VB]**

*sub Adv\_VAPI\_Close ()*

### **Parameters**

None

### **Return Value**

None

### **Description**

This function will release the library variables and functions.  
You must call this function before closing the application.

### **See Also**

[Adv\\_VAPI\\_Init](#)

## **Adv\_VAPI\_SetCurrentPort**

### **Syntax**

**[C++]**

*BOOL Adv\_VAPI\_SetCurrentPort(int nCardID,int nPortID)*

**[Delphi]**

*function*

*Adv\_VAPI\_SetCurrentPort(nCardID,nPortID:Integer):Boolean;*

**[VB]**

*function Adv\_VAPI\_SetCurrentPort (ByVal nCardID As Integer,  
ByVal nPortID As Integer) As Boolean*

### **Parameters**

- nCardID** : Set a card number to current virtual card number.  
Its range is from 0 to 3.
- nPortID** : Set a port number to current virtual port number.  
Its range is from 0 to 3.

### **Return Value**

- TRUE** : Function is successful
- FALSE** : Function is failed

### **Description**

This function will assign a card number and port number to current virtual port. With DVP-7010 card serials, a physical card has only one port. With DVP-7020 card serials, a physical card has four ports. There are 1~4 video channels on each physical port.

### **See Also**

[Adv\\_VAPI\\_GetCurrentCard](#), [Adv\\_VAPI\\_GetCurrentPort](#)

## **Adv\_VAPI\_GetCurrentCard**

### **Syntax**

**[C++]**

*int Adv\_VAPI\_GetCurrentCard(void)*

**[Delphi]**

*function Adv\_VAPI\_GetCurrentCard:Integer;*

**[VB]**

*function Adv\_VAPI\_GetCurrentCard () As Integer*

### **Parameters**

None

### **Return Value**

The current card number, its range is 0 to 3.

### **Description**

This function will return the current card number.

### **See Also**

[Adv\\_VAPI\\_SetCurrentPort](#), [Adv\\_VAPI\\_GetCurrentPort](#)

## **Adv\_VAPI\_GetCurrentPort**

### **Syntax**

**[C++]**

*int Adv\_VAPI\_GetCurrentPort(void)*

**[Delphi]**

*function Adv\_VAPI\_GetCurrentPort:Integer;*

**[VB]**

*function Adv\_VAPI\_GetCurrentPort () As Integer*

### **Parameters**

None

### **Return Value**

The current port number, the range is 0 to 3.

### **Description**

This function will return the current port number.

### **See Also**

[Adv\\_VAPI\\_SetCurrentPort](#), [Adv\\_VAPI\\_GetCurrentCard](#)



## Adv\_VAPI\_SetPortType

### Syntax

[C++]

*BOOL Adv\_VAPI\_SetPortType(DEVICE\_TYPE deviceType)*

[Delphi]

*function Adv\_VAPI\_SetPortType(deviceType:Integer):Boolean;*

[VB]

*function Adv\_VAPI\_SetPortType (ByVal deviceType As Integer)*

*As Boolean*

### Parameters

deviceType : Specifies the physical port type. Its valid values are the following list

V_TYPENONE	:	no device
V_ADV7010_0	:	DVP-7010 Card 0
V_ADV7010_1	:	DVP-7010 Card 1
V_ADV7010_2	:	DVP-7010 Card 2
V_ADV7010_3	:	DVP-7010 Card 3
V_ADV7020_0_0	:	DVP-7020 Card 0 Port 0
V_ADV7020_0_1	:	DVP-7020 Card 0 Port 1
V_ADV7020_0_2	:	DVP-7020 Card 0 Port 2
V_ADV7020_0_3	:	DVP-7020 Card 0 Port 3
V_ADV7020_1_0	:	DVP-7020 Card 1 Port 0
V_ADV7020_1_1	:	DVP-7020 Card 1 Port 1
V_ADV7020_1_2	:	DVP-7020 Card 1 Port 2
V_ADV7020_1_3	:	DVP-7020 Card 1 Port 3
V_ADV7020_2_0	:	DVP-7020 Card 2 Port 0
V_ADV7020_2_1	:	DVP-7020 Card 2 Port 1
V_ADV7020_2_2	:	DVP-7020 Card 2 Port 2

V_ADV7020_2_3	:	DVP-7020 Card
2 Port 3		
V_ADV7020_3_0	:	DVP-7020 Card
3 Port 0		
V_ADV7020_3_1	:	DVP-7020 Card
3 Port 1		
V_ADV7020_3_2	:	DVP-7020 Card
3 Port 2		
V_ADV7020_3_3	:	DVP-7020 Card
3 Port 3		

**Return Value**

TRUE : Function is successful  
 FALSE : Function is failed

**Description**

This function will assign a physical port to current virtual port.

**Example**

```

  DWORD dwVer;
  ...
  if (Adv_VAPI_Init(&dwVer))
  { // Success
    if (!Adv_VAPI_SetCurrentPort(0,0)) // Set virtual port as (0,0)
      Adv_VAPI_GetLastError(NULL);
    if (!Adv_VAPI_SetPortType(V_ADV7010_3)) // Set DVP-7010
      Card 3 to current virtual port(0,0)
      Adv_VAPI_GetLastError(NULL);
    if (!Adv_VAPI_SetCurrentPort(0,1)) // Set virtual port as (0,1)
      Adv_VAPI_GetLastError(NULL);
    if (!Adv_VAPI_SetPortType(V_ADV7010_2)) // Set DVP-7010
      Card 2 to current virtual port(0,1)
      Adv_VAPI_GetLastError(NULL);
    ...
  }
  else // Fail
    Adv_VAPI_GetLastError(NULL);

```

**See Also**

[Adv\\_VAPI\\_SetVideoFormat](#), [Adv\\_VAPI\\_SetCaptureSize](#),  
[Adv\\_VAPI\\_GetVideoFormat](#), [Adv\\_VAPI\\_GetCaptureSize](#)



## Adv\_VAPI\_GetPortType

### Syntax

[C++]

```
BOOL Adv_VAPI_GetPortType(DEVICE_TYPE *pDeviceType)
```

[Delphi]

```
function Adv_VAPI_GetPortType(var
```

```
DeviceType:Integer):Boolean;
```

[VB]

```
function Adv_VAPI_GetPortType (ByRef pDeviceType As Integer)
```

```
As Boolean
```

### Parameters

pDeviceType : Specifies the address of returned physical port type. It pointers to valid values are the one of which are the following list

V_TYPENONE	:	no device
V_ADV7010_0	:	DVP-7010 Card 0
V_ADV7010_1	:	DVP-7010 Card 1
V_ADV7010_2	:	DVP-7010 Card 2
V_ADV7010_3	:	DVP-7010 Card 3
V_ADV7020_0_0	:	DVP-7020 Card 0 Port 0
V_ADV7020_0_1	:	DVP-7020 Card 0 Port 1
V_ADV7020_0_2	:	DVP-7020 Card 0 Port 2
V_ADV7020_0_3	:	DVP-7020 Card 0 Port 3
V_ADV7020_1_0	:	DVP-7020 Card 1 Port 0
V_ADV7020_1_1	:	DVP-7020 Card 1 Port 1
V_ADV7020_1_2	:	DVP-7020 Card 1 Port 2
V_ADV7020_1_3	:	DVP-7020 Card 1 Port 3
V_ADV7020_2_0	:	DVP-7020 Card 2 Port 0
V_ADV7020_2_1	:	DVP-7020 Card 2 Port 1

V\_ADV7020\_2\_2 : DVP-7020 Card  
2 Port 2  
V\_ADV7020\_2\_3 : DVP-7020 Card  
2 Port 3  
V\_ADV7020\_3\_0 : DVP-7020 Card  
3 Port 0  
V\_ADV7020\_3\_1 : DVP-7020 Card  
3 Port 1  
V\_ADV7020\_3\_2 : DVP-7020 Card  
3 Port 2  
V\_ADV7020\_3\_3 : DVP-7020 Card  
3 Port 3

**Return Value**

TRUE : Function is successful  
FALSE : Function is failed

**Description**

This function will assign a physical port to current virtual port.

**See Also**

[Adv\\_VAPI\\_SetVideoFormat](#), [Adv\\_VAPI\\_SetCaptureSize](#),  
[Adv\\_VAPI\\_GetVideoFormat](#), [Adv\\_VAPI\\_GetCaptureSize](#)

## Adv\_VAPI\_SetVideoFormat

### Syntax

[C++]

```
BOOL Adv_VAPI_SetVideoFormat(AnalogVideoStandard  
vFormat)
```

[Delphi]

function

```
Adv_VAPI_SetVideoFormat(vFormat:Integer):Boolean;
```

[VB]

```
function Adv_VAPI_SetVideoFormat (ByVal vFormat As Integer)  
As Boolean
```

### Parameters

vFormat : Specifies the video format on current physical port. Its values are as follows:

AnalogVideo\_None : None,

AnalogVideo\_NTSC\_M: NTSC format

AnalogVideo\_PAL\_B : PAL format

### Return Value

TRUE : Function is successful

FALSE : Function is failed

### Description

This function will assign the video format to the current port.

The default value of video format is **AnalogVideo\_NTSC\_M**.

### See Also

[Adv\\_VAPI\\_SetPortType](#), [Adv\\_VAPI\\_SetCaptureSize](#),

[Adv\\_VAPI\\_GetVideoFormat](#), [Adv\\_VAPI\\_GetCaptureSize](#)

## Adv\_VAPI\_SetCaptureSize

### Syntax

[C++]

*BOOL Adv\_VAPI\_SetCaptureSize(VIDEO\_SIZE vcSize)*

[Delphi]

*function Adv\_VAPI\_SetCaptureSize(vcSize:Integer):Boolean;*

[VB]

*function Adv\_VAPI\_SetCaptureSize (ByVal vcSize As Integer) As Boolean*

### Parameters

vcSize : Specifies the video capturing size and colors (BPP : bit per pixel ) on current physical port. Its values are as follows:  
SIZE640X240\_16BPP: size resolution as 640x240 16-BPP  
SIZE320X240\_16BPP: size resolution as 320x240 16-BPP  
SIZE160X120\_16BPP: size resolution as 160x120 16-BPP  
SIZE320X240\_24BPP: size resolution as 320x240 24-BPP  
SIZE160X120\_24BPP: size resolution as 160x120 24-BPP  
SIZE640X240\_24BPP: size resolution as 640x240 24-BPP

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will assign the video capturing size to the current port. The default value of video capturing size is **SIZE640X240\_16BPP**.

### See Also

[Adv\\_VAPI\\_SetPortType](#), [Adv\\_VAPI\\_SetVideoFormat](#),  
[Adv\\_VAPI\\_GetVideoFormat](#), [Adv\\_VAPI\\_GetCaptureSize](#)





## Adv\_VAPI\_GetVideoFormat

### **Syntax**

**[C++]**

*AnalogVideoStandard Adv\_VAPI\_GetVideoFormat(void)*

**[Delphi]**

*function Adv\_VAPI\_GetVideoFormat:Integer;*

**[VB]**

*function Adv\_VAPI\_GetVideoFormat () As Integer*

### **Parameters**

None

### **Return Value**

The video format, its value is one of the following:

AnalogVideo_None	:	None,
AnalogVideo_NTSC_M	:	NTSC
format		
AnalogVideo_PAL_B	:	PAL
format		

### **Description**

This function will return the video format of the current port.

### **See Also**

[Adv\\_VAPI\\_SetPortType](#), [Adv\\_VAPI\\_SetCaptureSize](#),  
[Adv\\_VAPI\\_SetVideoFormat](#), [Adv\\_VAPI\\_GetCaptureSize](#)

## Adv\_VAPI\_GetCaptureSize

### **Syntax**

**[C++]**

*VIDEO\_SIZE Adv\_VAPI\_GetCaptureSize(void)*

**[Delphi]**

*function Adv\_VAPI\_GetCaptureSize:Integer;*

**[VB]**

*function Adv\_VAPI\_GetCaptureSize () As Integer*

### **Parameters**

None

### **Return Value**

The video capturing size, its value is one of the following:

SIZE640X240\_16BPP: size resolution as  
640x240 16-Bpp

SIZE320X240\_16BPP: size resolution as  
320x240 16-Bpp

SIZE160X120\_16BPP: size resolution  
as 160x120 16-Bpp

SIZE320X240\_24BPP: size resolution  
as 320x240 24-Bpp

SIZE160X120\_24BPP: size resolution  
as 160x120 24-Bpp

SIZE640X240\_24BPP: size resolution  
as 640x240 24-Bpp

### **Description**

This function will return the video capturing size of the current port.

### **See Also**

[Adv\\_VAPI\\_SetPortType](#), [Adv\\_VAPI\\_SetCaptureSize](#),  
[Adv\\_VAPI\\_GetVideoFormat](#), [Adv\\_VAPI\\_SetVideoFormat](#)

## Adv\_VAPI\_SetBrightness

### Syntax

[C++]

*BOOL Adv\_VAPI\_SetBrightness(int nChannel,int nValue)*

[Delphi]

*function*

*Adv\_VAPI\_SetBrightness(nChannel,nValue:Integer):Boolean;*

[VB]

*function Adv\_VAPI\_SetBrightness (ByVal nChannel As Integer,  
ByVal nValue As Integer) As Boolean*

### Parameters

nChannel : Specifies the video channel number on current physical port. The range is 0~3.

nValue : Specifies the brightness of the video channel on current physical port. The range is 0~10000. 0 means deep dark and 10000 means more brightness.

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will assign the brightness of video channel on the current port. The default brightness value of a video channel is **5000**.

### See Also

[Adv\\_VAPI\\_SetSaturation](#), [Adv\\_VAPI\\_SetContrast](#),  
[Adv\\_VAPI\\_SetHue](#)

## **Adv\_VAPI\_SetSaturation**

### **Syntax**

**[C++]**

*BOOL Adv\_VAPI\_SetSaturation(int nChannel,int nValue)*

**[Delphi]**

*function*

*Adv\_VAPI\_SetSaturation(nChannel,nValue:Integer):Boolean;*

**[VB]**

*function Adv\_VAPI\_SetSaturation (ByVal nChannel As Integer,  
ByVal nValue As Integer) As Boolean*

### **Parameters**

nChannel : Specifies the video channel number on current physical port. Its range is 0~3.

nValue : Specifies the saturation of the video channel on current physical port. Its range is 0~10000. 0 means deep dark and 10000 means more saturation.

### **Return Value**

TRUE : Function is successful  
FALSE : Function is failed

### **Description**

This function will assign the saturation of video channel on the current port. The default saturation value of a video channel is **5000**.

### **See Also**

[Adv\\_VAPI\\_SetBrightness](#), [Adv\\_VAPI\\_SetContrast](#),  
[Adv\\_VAPI\\_SetHue](#)

## Adv\_VAPI\_SetContrast

### **Syntax**

**[C++]**

*BOOL Adv\_VAPI\_SetContrast(int nChannel,int nValue)*

**[Delphi]**

*function*

*Adv\_VAPI\_SetContrast(nChannel,nValue:Integer):Boolean;*

**[VB]**

*function Adv\_VAPI\_SetContrast (ByVal nChannel As Integer,  
ByVal nValue As Integer) As Boolean*

### **Parameters**

- nChannel : Specifies the video channel number on current physical port. Its range is 0~3.
- nValue : Specifies the contrast of the video channel on current physical port. Its range is 0~10000. 0 means deep dark and 10000 means more contrast.

### **Return Value**

- TRUE : Function is successful
- FALSE : Function is failed

### **Description**

This function will assign the contrast of video channel on the current port. The default contrast value of a video channel is **5000**.

### **See Also**

[Adv\\_VAPI\\_SetSaturation](#), [Adv\\_VAPI\\_SetBrightness](#),  
[Adv\\_VAPI\\_SetHue](#)

## Adv\_VAPI\_SetHue

### Syntax

[C++]

*BOOL Adv\_VAPI\_SetHue(int nChannel,int nValue)*

[Delphi]

*function*

*Adv\_VAPI\_SetHue(nChannel,nValue:Integer):Boolean;*

[VB]

*function Adv\_VAPI\_SetHue (ByVal nChannel As Integer, ByVal nValue As Integer) As Boolean*

### Parameters

- nChannel : Specifies the video channel number on current physical port. Its range is 0~3.
- nValue : Specifies the hue of the video channel on current physical port. Its range is 0~10000. 0 means deep dark and 10000 means more hue.

### Return Value

- TRUE : Function is successful
- FALSE : Function is failed

### Description

This function will assign the hue of video channel on the current port. The default hue value of a video channel is **5000**.

### See Also

[Adv\\_VAPI\\_SetSaturation](#), [Adv\\_VAPI\\_SetContrast](#),  
[Adv\\_VAPI\\_SetBrightness](#)

## Adv\_VAPI\_GetBrightness

### Syntax

[C++]

*BOOL Adv\_VAPI\_GetBrightness(int nChannel, int \*pnValue)*

[Delphi]

*function Adv\_VAPI\_GetBrightness(nChannel:Integer; var  
nValue:Integer):Boolean;*

[VB]

*function Adv\_VAPI\_GetBrightness (ByVal nChannel As Integer,  
ByRef pnValue As Integer) As Boolean*

### Parameters

nChannel : Specifies the video channel number on current physical port. Its range is 0~3.  
pnValue : Specifies the address of returned brightness value of the video channel on current physical port. The range of its value is 0~10000. 0 means deep dark and 10000 means more brightness.

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will return the brightness value of video channel on the current port. The default brightness value of a video channel is **5000**.

### See Also

[Adv\\_VAPI\\_GetSaturation](#), [Adv\\_VAPI\\_GetContrast](#),  
[Adv\\_VAPI\\_GetHue](#)

## Adv\_VAPI\_GetSaturation

### Syntax

[C++]

*BOOL Adv\_VAPI\_GetSaturation(int nChannel,int \*pnValue)*

[Delphi]

*function Adv\_VAPI\_GetSaturation(nChannel:Integer; var  
nValue:Integer):Boolean;*

[VB]

*function Adv\_VAPI\_GetSaturation (ByVal nChannel As Integer,  
ByRef pnValue As Integer) As Boolean*

### Parameters

- nChannel : Specifies the video channel number on current physical port. Its range is 0~3.
- pnValue : Specifies the address of returned saturation value of the video channel on current physical port. Its range of value is 0~10000. 0 means deep dark and 10000 means more saturation.

### Return Value

- TRUE : Function is successful
- FALSE : Function is failed

### Description

This function will return the saturation value of video channel on the current port. The default saturation value of a video channel is **5000**.

### See Also

[Adv\\_VAPI\\_GetBrightness](#), [Adv\\_VAPI\\_GetContrast](#),  
[Adv\\_VAPI\\_GetHue](#)



## Adv\_VAPI\_GetContrast

### Syntax

*[C++]*

*BOOL Adv\_VAPI\_GetContrast(int nChannel,int \*pnValue)*

*[Delphi]*

*function Adv\_VAPI\_GetContrast(nChannel:Integer; var  
nValue:Integer):Boolean;*

*[VB]*

*function Adv\_VAPI\_GetContrast (ByVal nChannel As Integer,  
ByRef pnValue As Integer) As Boolean*

### Parameters

- nChannel : Specifies the video channel number on current physical port. Its range is 0~3.
- pnValue : Specifies the address of returned contrast of the video channel on current physical port. Its range of the value is 0~10000. 0 means deep dark and 10000 means more contrast.

### Return Value

- TRUE : Function is successful
- FALSE : Function is failed

### Description

This function will return the contrast value of video channel on the current port. The default contrast value of a video channel is **5000**.

### See Also

[Adv\\_VAPI\\_GetSaturation](#), [Adv\\_VAPI\\_GetBrightness](#),  
[Adv\\_VAPI\\_GetHue](#)

## Adv\_VAPI\_GetHue

### Syntax

[C++]

```
BOOL Adv_VAPI_GSetHue(int nChannel,int *pnValue)
```

[Delphi]

```
function Adv_VAPI_GetHue(nChannel:Integer; var  
nValue:Integer):Boolean;
```

[VB]

```
function Adv_VAPI_GetHue (ByVal nChannel As Integer, ByRef  
pnValue As Integer) As Boolean
```

### Parameters

nChannel : Specifies the video channel number on current physical port. Its range is 0~3.

pnValue : Specifies the address of returned hue of the video channel on current physical port. Its range of the value is 0~10000. 0 means deep dark and 10000 means more hue.

### Return Value

TRUE : Function is successful

FALSE : Function is failed

### Description

This function will return the hue of video channel on the current port. The default hue value of a video channel is **5000**.

### See Also

[Adv\\_VAPI\\_GetSaturation](#), [Adv\\_VAPI\\_GetContrast](#),  
[Adv\\_VAPI\\_GetBrightness](#)

## Adv\_VAPI\_SetCaptureWindow

### Syntax

[C++]

*BOOL Adv\_VAPI\_SetCaptureWindow(int nChannelNo,HWND  
hWnd,int nFrameCount,Adv\_CompleteProc pCall)*

[Delphi]

*function Adv\_VAPI\_SetCaptureWindow(nChannelNo:Integer;  
hWnd:HWND; nFrameCount:Integer;  
pCall:Adv\_CompleteProc):Boolean;*

[VB]

*function Adv\_VAPI\_SetCaptureWindow (ByVal nChannelNo As  
Integer, ByVal Hwnd As Long, ByVal nFrameCount As Integer, ByVal  
pCall As Long) As Boolean*

### Parameters

- nChannelNo : Specifies the video channel number on current physical port. Its range is 0~3.
- hWnd : Specifies the capture window handle for the video channel on current physical port. If the handle is NULL, the capture window of video channel will be canceled.
- nFrameCount : Specifies total frame number to capture. If the value is ALWAYS\_CAPTURE, the capture frame is endless.
- pCall : Pointer to callback function to notify the capture completed. The function should be declared as follows:
- BOOL CALLBACK YourCompleteProc(DWORD dwStatus)**  
The value of the parameter dwStatus has one of the following:
- |           |                                    |
|-----------|------------------------------------|
| DEST_HWND | defines windows capture completed. |
| DEST_BUF  | defines buffer capture completed.  |
| DEST_FILE | defines file capture completed.    |

### Return Value

TRUE : Function is successful

FALSE : Function is failed

**Description**

This function will assign a window handle to display the data of video capture for a channel of video.

**See Also**

[Adv VAPI\\_SetCaptureBuf](#), [Adv VAPI\\_SetCaptureFile](#),  
[Adv VAPI\\_SetCaptureCallback](#), [Adv VAPI\\_GetCaptureStatus](#)

## Adv\_VAPI\_SetCaptureBuf

### Syntax

[C++]

*BOOL Adv\_VAPI\_SetCaptureBuf(int nChannelNo,PBYTE pBuf,DWORD dwSize,int nFrameCount,Adv\_CompleteProc pCall)*

[Delphi]

*function Adv\_VAPI\_SetCaptureBuf(nChannelNo:Integer; pBuf:POINTER; dwSize:Longword; nFrameCount:Integer; pCall:Adv\_CompleteProc):Boolean;*

[VB]

*function Adv\_VAPI\_SetCaptureBuf (ByVal nChannelNo As Integer, ByVal pBuf As Long, ByVal dwSize As Long, ByVal nFrameCount As Integer, ByVal pCall As Long) As Boolean*

### Parameters

- nChannelNo : Specifies the video channel number on current physical port. Its range should be 0~3.
- pBuf : Specifies the capture buffer for the video channel on current physical port. If the buffer address is NULL, the capture buffer of video channel will be canceled.
- dwSize : Specifies total number of buffer. You should allocate enough space to buffer.
- nFrameCount : Specifies total frame number to capture. If the value is ALWAYS\_CAPTURE, the capture frame is endless.
- pCall : Pointer to callback function to notify the capture completed. The function should be declared as follows:

**BOOL CALLBACK YourCompleteProc(DWORD dwStatus)**

The value of the parameter dwStatus has one of the following:

**DEST\_HWND** defines windows capture completed.

**DEST\_BUF** defines buffer capture completed.

**DEST\_FILE** defines file capture completed.

**Return Value**

TRUE : Function is successful  
FALSE : Function is failed

**Description**

This function will assign a buffer to store the data of video capture for a channel of video.

**See Also**

[Adv VAPI SetCaptureWindow](#), [Adv VAPI SetCaptureFile](#),  
[Adv VAPI SetCaptureCallback](#), [Adv VAPI GetCaptureStatus](#)

## Adv\_VAPI\_SetCaptureFile

### Syntax

[C++]

```
BOOL Adv_VAPI_SetCaptureFile(int nChannelNo, TCHAR  
*fileName, int nFrameCount, FILE_FORMAT  
fileFormat, Adv_CompleteProc pCall)
```

[Delphi]

```
function Adv_VAPI_SetCaptureFile(nChannelNo: Integer;  
fileName: string; nFrameCount, fileFormat: Integer;  
pCall: Adv_CompleteProc): Boolean;
```

[VB]

```
function Adv_VAPI_SetCaptureFile (ByVal nChannelNo As  
Integer, ByVal fileName As String, ByVal nFrameCount As Integer,  
ByVal fileFormat As Integer, ByVal pCall As Long) As Boolean
```

### Parameters

- nChannelNo : Specifies the video channel number on current physical port. Its range should be 0~3.
- fileName : Specifies the filename for the video channel on current physical port. If fileName is NULL, the capture file of video channel will be canceled.
- nFrameCount : Specifies total frame number to capture. If the value is ALWAYS\_CAPTURE, the capture frame is endless.
- fileFormat : Defines the capture file format. There are two types here:  
RAW\_DATA stream raw data of video channel  
BMP\_DATA bitmap file for one frame of video channel
- pCall : Pointer to callback function to notify the capture completed. The function should be declared as follows:  
BOOL CALLBACK YourCompleteProc(DWORD dwStatus)  
The value of the parameter dwStatus has one of the following:  
DEST\_HWND defines windows capture

completed.	
DEST_BUF	defines buffer capture
completed.	
DEST_FILE	defines file capture
completed.	

**Return Value**

TRUE : Function is successful  
FALSE : Function is failed

**Description**

This function will assign a window handle to the channel of video.

**See Also**

[Adv VAPI SetCaptureBuf](#), [Adv VAPI SetCaptureWindow](#),  
[Adv VAPI SetCaptureCallback](#), [Adv VAPI GetCaptureStatus](#)



## Adv\_VAPI\_SetCaptureCallback

### Syntax

[C++]

*BOOL Adv\_VAPI\_SetCaptureCallback(int nChannelNo,  
Adv\_CallBackProc pCall, PVOID lpParam,int nFrameCount)*

[Delphi]

*function*

*Adv\_VAPI\_SetCaptureCallback(nChannelNo:Integer;*

*pCall:Adv\_CallBackProc;*

*lpParam:Pointer;nFrameCount:Integer):Boolean;*

[VB]

*function Adv\_VAPI\_SetCaptureCallback (ByVal nChannelNo As  
Integer, ByVal pCall As Long, ByVal lpParam As Long, ByVal  
nFrameCount As Integer) As Boolean*

### Parameters

- nChannelNo : Specifies the video channel number on current physical port. Its range should be 0~3.
- pCall : Pointer to callback function to notify the capture one frame. The function should be declared as follows:
- HRESULT CALLBACK  
*YourCallBackProc*(BYTE \*pImgBuffer,  
BYTE \*pVdoSrc, LPVOID lpParam)  
pImgBuffer pointer of capture frame  
buffer,  
pVdoSrc reserved,  
lpParam pointer to the lpParam of this  
function
- lpParam : Specifies the callback procedure parameter 3. You can pass useful pointer to your callback procedure.
- nFrameCount : Specifies total frame number to capture. If the value is ALWAYS\_CAPTURE, the capture frame is endless.

### Return Value

- TRUE : Function is successful
- FALSE : Function is failed

**Description**

This function will define the callback procedure to capture the frame data of a channel of video.

**See Also**

[Adv\\_VAPI\\_SetCaptureBuf](#), [Adv\\_VAPI\\_SetCaptureFile](#),  
[Adv\\_VAPI\\_SetCaptureWindow](#), [Adv\\_VAPI\\_GetCaptureStatus](#)

## Adv\_VAPI\_GetCaptureStatus

### **Syntax**

**[C++]**

*DWORD Adv\_VAPI\_GetCaptureStatus(int nChannelNo)*

**[Delphi]**

*function*

*Adv\_VAPI\_GetCaptureStatus(nChannelNo:Integer):Longword;*

**[VB]**

*function Adv\_VAPI\_GetCaptureStatus (ByVal nChannelNo As Integer) As Long*

### **Parameters**

nChannelNo : Specifies the video channel number on current physical port. Its range is 0~3.

### **Return Value**

The value is DEST\_NONE or the combination of the following values:

DEST\_BUF : capture buffer function is not completed.

DEST\_CALLBACK : capture callback function is not completed.

DEST\_FILE : capture file function is not completed.

DEST\_HWND : capture window function is not completed.

DEST\_RUN : capture function for the port is still active..

### **Description**

This function will return the capture status of a video channel.

### **See Also**

[Adv\\_VAPI\\_SetCaptureBuf](#), [Adv\\_VAPI\\_SetCaptureFile](#),

[Adv\\_VAPI\\_SetCaptureCallback](#),

[Adv\\_VAPI\\_SetCaptureWindow](#)

## Adv\_VAPI\_SetCaptureSource

### Syntax

[C++]

```
BOOL Adv_VAPI_SetCaptureSource(VIDEO_SOURCE  
nChannelNo)
```

[Delphi]

function

```
Adv_VAPI_SetCaptureSource(nChannelNo:Integer):Boolean;
```

[VB]

```
function Adv_VAPI_SetCaptureSource (ByVal nChannelNo As  
Integer) As Boolean
```

### Parameters

nChannelNo : Specifies the video channel number on current physical port. Its valid value is the following:

V_CVBS_0	: set video source as channel 0,
V_CVBS_1	: set video source as channel 1,
V_CVBS_2	: set video source as channel 2,
V_CVBS_3	: set video source as channel 3,
V_POLLING_ALL	: set video source polling from channel 0 to 3

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will assign a video source on the current physical port. The default video source is **V\_POLLING\_ALL**.

### See Also

[Adv\\_VAPI\\_CaptureStart](#), [Adv\\_VAPI\\_CaptureStop](#)

## Adv\_VAPI\_GetCaptureSource

### Syntax

[C++]

```
BOOL Adv_VAPI_GetCaptureSource(VIDEO_SOURCE  
*pnChannelNo)
```

[Delphi]

```
function Adv_VAPI_GetCaptureSource(var  
nChannelNo:Integer):Boolean;
```

[VB]

```
function Adv_VAPI_GetCaptureSource (ByRef pnChannelNo As  
Integer) As Boolean
```

### Parameters

pnChannelNo : Specifies the return address of video channel number on current physical port. It will return a valid value as one of the following:

V_CVBS_0	: set video source as channel 0,
V_CVBS_1	: set video source as channel 1,
V_CVBS_2	: set video source as channel 2,
V_CVBS_3	: set video source as channel 3,
V_POLLING_ALL	: set video source polling from channel 0 to 3

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will return a video source on the current physical port. The default video source is **V\_POLLING\_ALL**.

### See Also

[Adv\\_VAPI\\_CaptureStart](#), [Adv\\_VAPI\\_CaptureStop](#)

## Adv\_VAPI\_CaptureStart

### Syntax

*[C++]*

*BOOL Adv\_VAPI\_CaptureStart(int nFrameCount)*

*[Delphi]*

*function*

*Adv\_VAPI\_CaptureStart(nFrameCount:Integer):Boolean;*

*[VB]*

*function Adv\_VAPI\_CaptureStart (ByVal nFrameCount As Integer) As Boolean*

### Parameters

nFrameCount : Specifies total frame number to capture. If the value is ALWAYS\_CAPTURE, the capture frame is endless.

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will begin the capture function on current physical port.

### See Also

[Adv\\_VAPI\\_SetCaptureSource](#), [Adv\\_VAPI\\_CaptureStop](#)

## Adv\_VAPI\_EnableVideoSource

### Syntax

[C++]

```
BOOL Adv_VAPI_EnableVideoSource(VIDEO_SOURCE  
nChannelNo, BOOL bEnable);
```

[Delphi]

```
function Adv_VAPI_EnableVideoSource(nChannelNo: Integer;  
bEnable: Boolean): Boolean
```

[VB]

```
function Adv_VAPI_EnableVideoSource((ByVal nChannelNo As  
Integer, ByVal bEnable As Boolean) As Boolean)
```

### Parameters

nChannelNo : Specify the video source channel number.  
The valid value is one of the following:  
V\_CVBS\_0 channel number 0,  
V\_CVBS\_1 channel number 1,  
V\_CVBS\_2 channel number 2,  
V\_CVBS\_3 channel number 3

bEnable : Switch the video source on or off. If the  
value is TRUE, specified video source is on,  
otherwise is off.

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will switch the video source channel on or off on  
current physical port.

### Remark

This function is only for DVP-7010 card 0~3.

### See Also

[Adv\\_VAPI\\_CaptureStart](#), [Adv\\_VAPI\\_SetCaptureSource](#)

## Adv\_VAPI\_GetVideoSignal

### Syntax

[C++]

```
BOOL Adv_VAPI_GetVideoSignal(BOOL *pbHasSignal)
```

[Delphi]

```
function Adv_VAPI_GetVideoSignal(var  
pbHasSignal: Boolean): Boolean
```

[VB]

```
function Adv_VAPI_GetVideoSignal ((ByRef, pbHasSignal As  
Boolean) As Boolean
```

### Parameters

*pbHasSignal* : Specify the pointer of returned video signal value. If the value is TRUE, the physical port has signal from input, otherwise the physical port has not signal from input

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will get the video signal from input on current physical port.

### Remark

This function is only for DVP-7020 card 0~3, port 0~3.

### See Also

[Adv\\_VAPI\\_CaptureStart](#), [Adv\\_VAPI\\_SetCaptureSource](#)



## Adv\_VAPI\_CaptureStop

### **Syntax**

*[C++]*

*BOOL Adv\_VAPI\_CaptureStop(void)*

*[Delphi]*

*function Adv\_VAPI\_CaptureStop: Boolean;*

*[VB]*

*function Adv\_VAPI\_CaptureStop () As Boolean*

### **Parameters**

None

### **Return Value**

TRUE : Function is successful  
FALSE : Function is failed

### **Description**

This function will stop the capture function on current physical port.

### **See Also**

[Adv\\_VAPI\\_CaptureStart](#), [Adv\\_VAPI\\_SetCaptureSource](#)

## Adv\_VAPI\_GPIOInit

### Syntax

[C++]

*BOOL Adv\_VAPI\_GPIOInit(DWORD dwDirect)*

[Delphi]

*function Adv\_VAPI\_GPIOInit(dwDirect:Longword):Boolean;*

[VB]

*function Adv\_VAPI\_GPIOInit (ByVal dwDirect As Long) As Boolean*

### Parameters

*dwDirect* : Specifies direction of GPIO pins. In the BT878, there are 16 GPIO pins. Every bit means a GPIO pin. If the bit is set to 1, the GPIO pin is set to output. If the bit is set to 0, the GPIO pin is set to input.

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will initialize direction of the GPIO pins. For example,

*Adv\_VAPI\_GPIO(0xff00)*

set the bit 8~15 as output pins, bit 0~7 as input pins.

### See Also

[Adv\\_VAPI\\_SetGPIOData](#), [Adv\\_VAPI\\_GetGPIOData](#)

## Adv\_VAPI\_GPIOGetDirect

### Syntax

[C++]

*BOOL Adv\_VAPI\_GPIOGetDirect(DWORD \*pdwDirect)*

[Delphi]

*function Adv\_VAPI\_GPIOGetDirect(var*

*dwDirect:Longword):Boolean;*

[VB]

*function Adv\_VAPI\_GPIOGetDirect (ByRef pdwDirect As Long)*

*As Boolean*

### Parameters

pdwDirect : Specifies the address of returned direction of GPIO pins. In the BT878, there are 16 GPIO pins. Every bit means a GPIO pin. If the bit is set to 1, the GPIO pin is set to output. If the bit is set to 0, the GPIO pin is set to input.

### Return Value

TRUE : Function is successful  
FALSE : Function is failed

### Description

This function will return direction of the GPIO pins.

### See Also

[Adv\\_VAPI\\_SetGPIOData](#), [Adv\\_VAPI\\_GetGPIOData](#)

## **Adv\_VAPI\_SetGPIOData**

### **Syntax**

**[C++]**

*BOOL Adv\_VAPI\_SetGPIOData(DWORD dwValue)*

**[Delphi]**

*function Adv\_VAPI\_SetGPIOData (var  
dwValue:Longword):Boolean;*

**[VB]**

*function Adv\_VAPI\_SetGPIOData (ByVal dwValue As Long) As  
Boolean*

### **Parameters**

*dwValue* : Set the value of GPIO output pins.

### **Return Value**

*TRUE* : Function is successful  
*FALSE* : Function is failed

### **Description**

This function will set the value of GPIO output pins. For example,

*Adv\_VAPI\_GPIOInit(0xff00);*

*Adv\_VAPI\_SetGPIOData(0x00??)*

set the bit 8~15 as output pins and their states are on low.

### **See Also**

[Adv\\_VAPI\\_GPIOInit](#), [Adv\\_VAPI\\_GetGPIOData](#)

## **Adv\_VAPI\_GetGPIOData**

### **Syntax**

**[C++]**

```
BOOL Adv_VAPI_GetGPIOData(DWORD *pdwValue)
```

**[Delphi]**

```
function Adv_VAPI_GetGPIOData(var  
dwValue:Longword):Boolean;
```

**[VB]**

```
function Adv_VAPI_GetGPIOData (ByRef pdwValue As Long)  
As Boolean
```

### **Parameters**

pdwValue : Pointer to state value of GPIO input pins.

### **Return Value**

TRUE : Function is successful  
FALSE : Function is failed

### **Description**

This function will get the value of GPIO input pins. For example,

```
Adv_VAPI_GPIOInit(0xff00);  
Adv_VAPI_GetGPIOData(&dwValue)  
set the bit 0~7 as input pins and get their states.
```

### **See Also**

[Adv\\_VAPI\\_GPIOInit](#), [Adv\\_VAPI\\_SetGPIOData](#)

## Adv\_VAPI\_SetWDT

### Syntax

[C++]

*BOOL Adv\_VAPI\_SetWDT(WDT\_STATE nSet)*

[Delphi]

*function Adv\_VAPI\_SetWDT(nSet:Integer):Boolean;*

[VB]

*function Adv\_VAPI\_SetWDT (ByVal nSet As Integer) As Boolean*

### Parameters

nSet : Specify the watchdog state. Its value is as follows:

WDT\_START : Start the watchdog function

WDT\_CLEAR : Trigger the watchdog  
signal

WDT\_STOP : Stop the watchdog function

### Return Value

TRUE : Function is successful

FALSE : Function is failed

### Description

This function will set watchdog state. If you set the watchdog function to start, you must call clear function in every 5 seconds until you call stop function.

## **Adv\_VAPI\_ErrorMsg**

### **Syntax**

**[C++]**

*void Adv\_VAPI\_ErrorMsg(HWND hWnd)*

**[Delphi]**

*procedure Adv\_VAPI\_ErrorMsg(hWnd:HWND);*

**[VB]**

*sub Adv\_VAPI\_ErrorMsg (ByVal hWnd As Long)*

### **Parameters**

*hWnd* : Specify parent window of the display message window.

### **Return Value**

None

### **Description**

This function will display the DialogBox to show error message.

### **See Also**

[Adv\\_VAPI\\_GetLastError](#)

## Adv\_VAPI\_GetLastError

### Syntax

*[C++]*

*DWORD Adv\_VAPI\_GetLastError(void)*

*[Delphi]*

*function Adv\_VAPI\_GetLastError: Longword;*

*[VB]*

*function Adv\_VAPI\_GetLastError () As Long*

### Parameters

None

### Return Value

Return the last error code if function call failed. The error code is one of the following:

ERROR\_VAPI\_SUCCESS  
ERROR\_VAPI\_UNINITIALIZE  
ERROR\_VAPI\_BINDTOFILTER  
ERROR\_VAPI\_SYSTEMDEVICEENUM  
ERROR\_VAPI\_CREATECLASSENUM  
ERROR\_VAPI\_NODEVICEFORCAPTURE  
ERROR\_VAPI\_NOMATCHFILTER  
ERROR\_VAPI\_COINITIALIZE  
ERROR\_VAPI\_INITIALIZEPV  
ERROR\_VAPI\_UNINITIALIZE  
ERROR\_VAPI\_FILTERGRAPH  
ERROR\_VAPI\_CAPTUREGRAPHBUILDER  
ERROR\_VAPI\_CALLBACKRENDER  
ERROR\_VAPI\_FILTERADDCALLBACKRENDER  
ERROR\_VAPI\_QUERYCALLBACKRENDER  
ERROR\_VAPI\_QUERYMEDIACONTROL  
ERROR\_VAPI\_QUERYMEDIAEVENT  
ERROR\_VAPI\_SETFILTERGRAPH  
ERROR\_VAPI\_PORTID  
ERROR\_FAILED  
ERROR\_VAPI\_DEVICECHANGED  
ERROR\_VAPI\_DEVICEUSED  
ERROR\_VAPI\_FINDMEDIAANALOG  
ERROR\_VAPI\_FINDMEDIASTREAM



ERROR\_VAPI\_ADDFILTER  
ERROR\_VAPI\_VDOUNINIT  
ERROR\_VAPI\_GETTVFORMAT  
ERROR\_VAPI\_TVFORMATUNSUPPORT  
ERROR\_VAPI\_TVFORMATSETFAIL  
ERROR\_VAPI\_VSCUNINIT  
ERROR\_VAPI\_VSCGETFORMAT  
ERROR\_VAPI\_MEDIACONTROLUNINIT  
ERROR\_VAPI\_CARDID  
ERROR\_VAPI\_CHANNELINVALID  
ERROR\_VAPI\_MEDIACONTROLRUN  
ERROR\_VAPI\_FILENAMEINVALID

**Description**

This function will return a error code if function call failed.

**See Also**

[Adv\\_VAPI\\_ErrorMsg](#)