

User Manual

ADVANTECH MODEL NAME: DVP-7030E

ADVANTECH PART NUMBER: 9680014007

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1. Product Introduction

1.1 Product Brief

DVP-7030E is a high-quality, high-performance capture device which is specially designed for surveillance applications. It supports up to 4 channels of video inputs with BNC connectors to connect with 4 surveillance cameras. It also supports 4 channels of audio inputs with RCA connectors via bundled cables. With software support, DVP-7030E can record live video from cameras into MPEG4 or H.264 files.

1.2 Product Specification

DVP-7030E Product Series Hardware Specification		
Model	DVP-7030E	
Max. FPS	120/100fps @ D1	
Recording Mode	Software Compression, Real-Time Mode	
Product Photo		
Dimension	120.52 x 96.51 (mm)	
Interface	PCI	
ADC	10-Bit	
Video Input	4 x BNC	
Display Video Format	YUY2	
Display Video Resolution	NTSC	PAL
	720x480@30fps 704x480@30fps 640x480@30fps 720x240@30fps 704x240@30fps 640x240@30fps 360x240@30fps 352x240@30fps 320x240@30fps	720x576@25fps 704x576@25fps 640x576@25fps 720x288@25fps 704x288@25fps 640x288@25fps 360x288@25fps 352x288@25fps 320x288@25fps
Recording Video Format	MPEG4 / H.264 (Software Compression)	
Recording Video Resolution	NTSC	PAL
	720x480@30fps 704x480@30fps 640x480@30fps 720x240@30fps 704x240@30fps 640x240@30fps 360x240@30fps 352x240@30fps	720x576@25fps 704x576@25fps 640x576@25fps 720x288@25fps 704x288@25fps 640x288@25fps 360x288@25fps 352x288@25fps

	320x240@30fps	320x288@25fps
Audio Input	4 x RCA	
Audio Format	Mono / 8~16-Bit / 8000~48000Hz	
I/O	n/a	
WatchDog	✓	
Multiple Cards	4	
SDK	VC++ / .NET / VB / V4L2	
	System Requirement	
OS Support	Windows XP / Vista / Windows 7 Linux 2.6.14 or Higher (32-bit and 64-bit)	

1.3 Product Package Contents

	Item	Amount
	DVP-7030E Surveillance Capture Card	1 (piece)
	Audio cable	2 (pieces)
	Watchdog cable (option)	1 (piece)

2. Hardware Installation

Before You proceed

Please note below precautions before any install/uninstall operations:

- ✓ ALWAYS turn off the system before hardware installation/uninstallation.
- ✓ ALWAYS unplug the power cord from the wall outlet/socket before hardware installation/uninstallation.
- ✓ ALWAYS touch a safely grounded object or metal object before touching the device.
- ✗ DO NOT touch any devices before the system is fully off.
- ✗ DO NOT touch any electrical and semiconductor components on the device, especially ICs on board.

2.1 Card Installation

- A. Step 1: Turn off the system and unplug power cord from wall outlet/socket
- B. Step 2: Remove the computer system case cover
- C. Step 3: Plug DVP-7030E into an available PCI slot on motherboard
- D. Step 4: Fasten the screw(s) with screwdriver to make device firmly installed.

2.2 Signal Source Connection

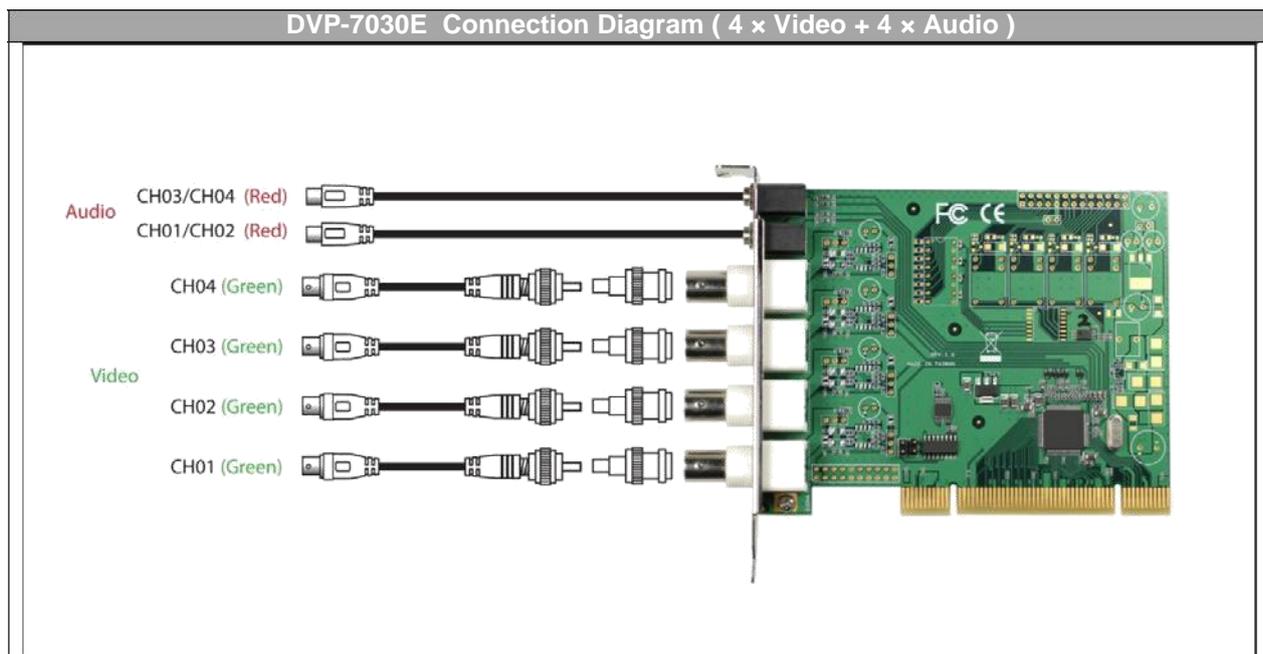
2.2.1 Camera Connection

- A. Plug the BNC cable onto the DVP-7030E on board connector.
- B. Twist the BNC head on the cable clockwise to fasten the cable connect

2.2.2 Audio source connection

- A. Plug the bundled cables into the jacks on the DVP-7030E
- B. Connect the audio source and DVP-7030E

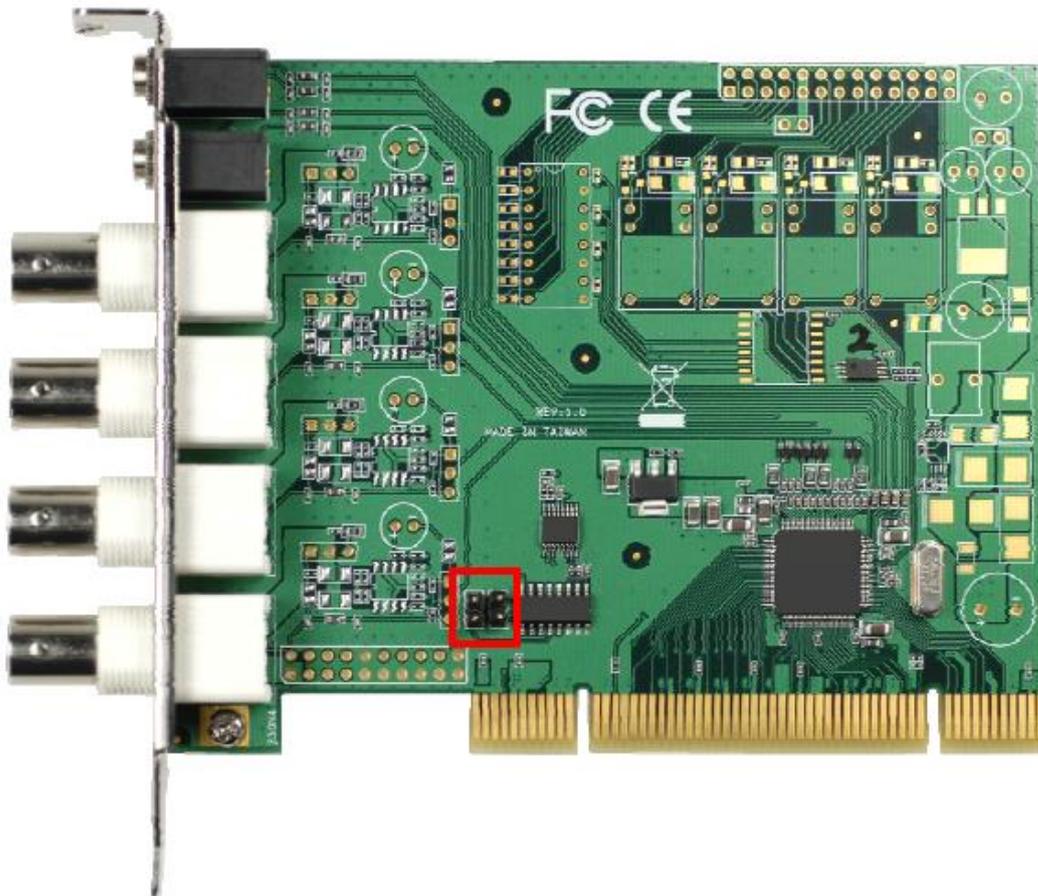
2.2.3 Connection Diagram



2.3 Watchdog cable Installation (optional)

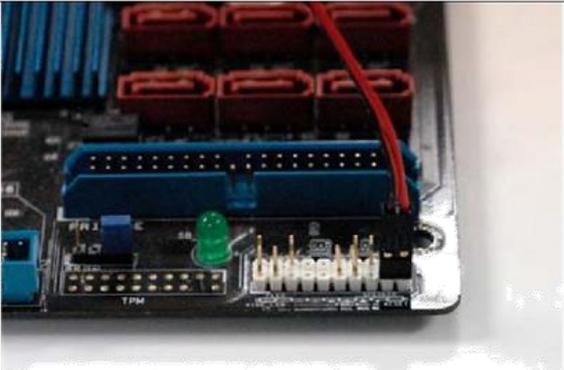
Watchdog function is to reset the PC automatically when the system is crashed on an unknown error. To active this function, please follow below steps:

Location of the Watchdog connector



Step by Step setup

Step 1	Turn off the system and unplug power cord from wall outlet/socket	
Step 2	Remove the computer system case cover	
Step 3	Locate system reset switch cable on motherboard. The ATX reset switch cable is normally a twisted cable with 2-pin connectors and is labeled "RESET SW" or similar remarks on its pin header	

<p>Step 4</p>	<p>Unplug the reset switch cable from the motherboard and replace with the bundled watchdog cable as the figure shows</p>	
<p>Step 5</p>	<p>DVP-7030E has two pairs of 2- pins connectors, connect to either one will be all workable.</p> <p>Connect system reset switch cable to the connector on the DVP-7030E</p> <p>Connect the other side of watch dog cable to the remaining 2-pins connector as figure indicates.</p>	

3. Software Installation

After hardware installation is completed, please start to install the software application.

3.1. Driver Installation (Windows XP, Windows Vista, Windows 7)

The “Windows Found New Hardware Wizard” will appear and detect the device. Please click “**Cancel**” to exit the Wizard, and implement automatic installation program to install the device driver and application.

1. Please click on the driver and follow the instruction to start the installation.
2. While the installation is completed, please select the path through Start→Control Panel→System→Hardware to Device Manager. And user can find 4 TW6802 PCI (#Audio) and 4 TW6802 PCI (#Video) devices from the device manager dialog (see below figure).

