

## MPEG-4/H.264 Video Capture Cards

An efficient traffic monitoring system can display real-time traffic and trigger alarms in the event of an accident. Advantech's DVX-2100 features a robust UNO-2000 series Fanless Box PC with a DVP-1412E or DVP-2124PV video capture card. Designed for use in traffic monitoring centers, these systems provide continuous 24-hour real-time recording, and feature stopped vehicle detection as well as monitoring vehicle speeds and traffic density for improved safety.

For general video surveillance applications, Advantech's PV series of video capture cards come with the advanced PowerView 6000 software and Advantech's DVP series cards with included Software Development Kits can be used for any kind of customized video solution.

### Multiple Platform Integration :

Advantech provides various hardware interfaces (PCI, PCI-104, USB) for integrating multiple platforms.

### High Quality Video Capture Cards :

Advantech offers the latest MPEG-4/H.264 video compression technology and DI full high resolution (NTSC:720x480, PAL: 720x576) at 30 fps. High compression rates allow easy IP transmissions for application use.

## Typical Applications

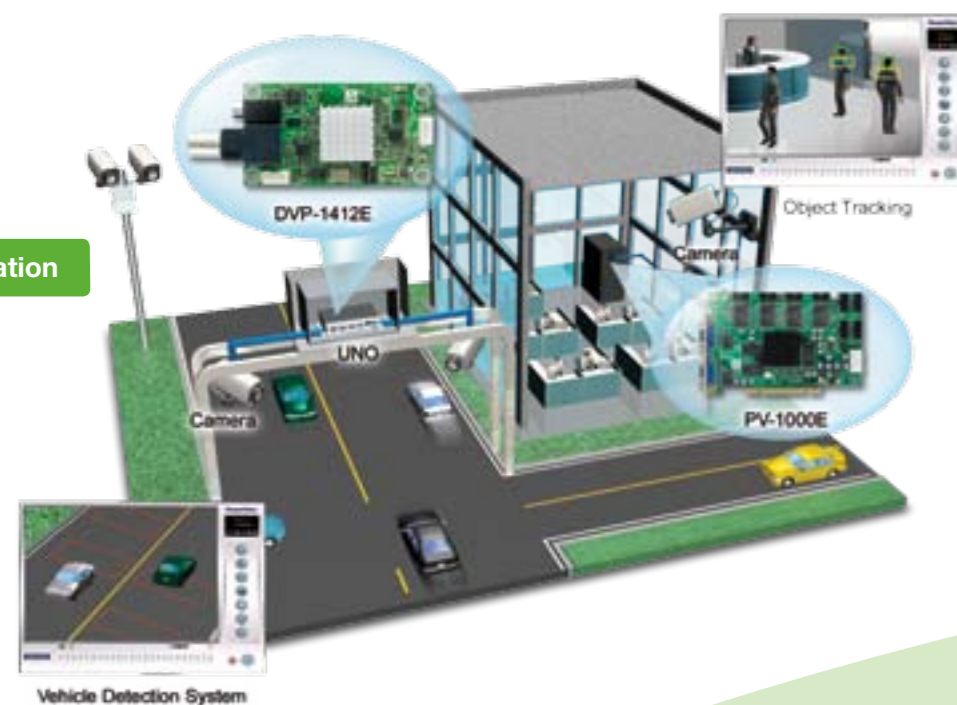
**Public Transportation Systems:** Such as subway, bus, ferry or airport applications.

**Traffic Monitoring Applications:** Including intersection, vehicle detection and toll station monitoring.

**Environment & Facility Monitoring:** For dams, rivers, furnaces and more.

## Benefits

- ▶ Rugged industrial grade video capture cards with wide temperature operation (-10 ~ 60° C).
- ▶ PV series video capture cards are bundled with Advantech's PowerView software.
- ▶ DVP series video capture cards include Software Development Kits for easy customization.
- ▶ Advantech provides integrated video capture cards with ADAM and I/O cards for production lines and more.



# Industrial Video Surveillance Solutions

## PowerView 6000



### Advanced Digital Surveillance System

- Real time status display and notification
- Flexible scheduled recording modes and Intelligent eMap function
- Advanced event action plan
- Quick search by calendar and time segment

## DVX-4100 Series DVR



### 16-ch Information-enabled DVR System

- 16-channel, MPEG-4/H.264 real time recording
- Up to 4TB HDD capacity support
- Hot-swappable HDD bay for easily maintain
- Industrial design ensures reliable operation

## DVX-4270 CMS



### Video Surveillance Central Monitoring System

- Supports dual-monitor displays
- Remote PTZ control via internet
- Remote playback and set up
- Ability to watch 128 cameras
- Intelligent eMap function

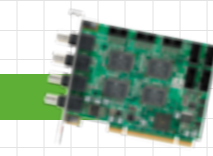
## DVX-4370 IVS



### Intelligent Video System

- Object Tracking: unattended object, virtual fence, loitering and object counting
- Supports smart search function in DVX-4100
- Analyze and detect behavior at live video frames
- Connection with CMS and DVR simultaneously

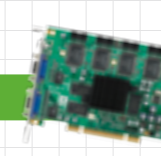
## PV-600E/800E



### 4/16-ch MPEG-4 Video Capture Card with PowerView

- 4/16-channel video
- Able to mix PV-600E with PV-800E stack cards for up to 24 channels per PC
- Display & Recording Rate: PV-600: 30/25 fps, PV-800: 120/100fps (NTSC/PAL)
- MPEG-4 software compression

## PV-1000E



### 16-ch Real-Time MPEG-4 Video Capture Card with PowerView

- 16-channel video & audio input
- Display & Recording Rate : 480/400 fps (NTSC/PAL)
- MPEG-4 software compression
- Adjustable Resolution: CIF/Half D1/D1

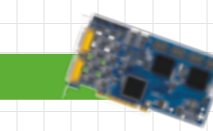
## PV-2000E/DVP-2124PV



### 4-ch Real-Time H.264 Video Capture Card with PowerView

- 4-channel video & audio input
- Display & Recording Rate: 120/100 fps (NTSC/PAL)
- H.264 hardware compression
- Adjustable resolution: CIF/Half D1/D1
- DVP-2124PV is PCI-104 form factor

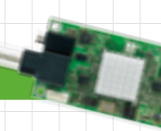
## PV-2100E



### 8-ch Real-Time H.264 Video Capture Card with PowerView

- 8-channel video & audio input
- Display & Recording Rate: 240/200 fps (NTSC/PAL)
- H.264 hardware compression
- Adjustable resolution: CIF/Half D1/D1

## DVP-1412E



### 1-ch USB MPEG-4 Video Capture Module with SDK

- Supports NTSC/PAL MPEG-4 hardware full-motion video/audio encoding up to D1 resolution at 30/25 fps
- 16 x 16 OSD text of up to 96 characters
- Up to eight modules can be installed into one PC
- High speed USB 2.0 interface

## DVP-2420E



### 2-ch PCI-104 MPEG-1/2/4 Video Capture Module with SDK

- Video/audio MPEG-1/2/4 hardware compression and decompression
- Full-motion video/audio preview
- Simultaneous 2-channel preview, encoding and decoding
- Up to D1 resolution at 30/25 fps per channel

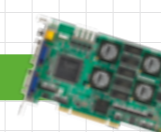
## DVP-7010BE/7020BE



### 4/16-ch MPEG-4 Video Capture Card with SDK

- 4/16-channel video and 1-channel audio recording (audio via motherboard)
- Able to mix DVP-7010BE with DVP-7020BE stack cards for up to 24 channels per PC
- Display & Recording Rate: DVP-7010BE : 30/25 fps, DVP-7020BE : 120/100 fps (NTSC/PAL)
- MPEG-4 software compression

## DVP-7421BE



### 4-ch Real-Time MPEG-1/2/4 Video Capture Card with SDK

- 4-channel 120/100 fps@D1 resolution concurrent hardware encode/decode
- Supports MPEG-1/2/4 Video & MPEG1 Layer II audio compression
- SDK supports Windows XP/XPe/Windows 2000 with VC++ sample code

- ✓ PCI Video Capture Cards
- ✓ USB & PCI-104 Video Cards
- ✓ DVR, CMS, and IVS Platforms
- ✓ Information On-Screen
- ✓ SCADA Integration

# Industrial Video Surveillance Solutions

Video Surveillance with Information On-Screen and Intelligent Video Analysis



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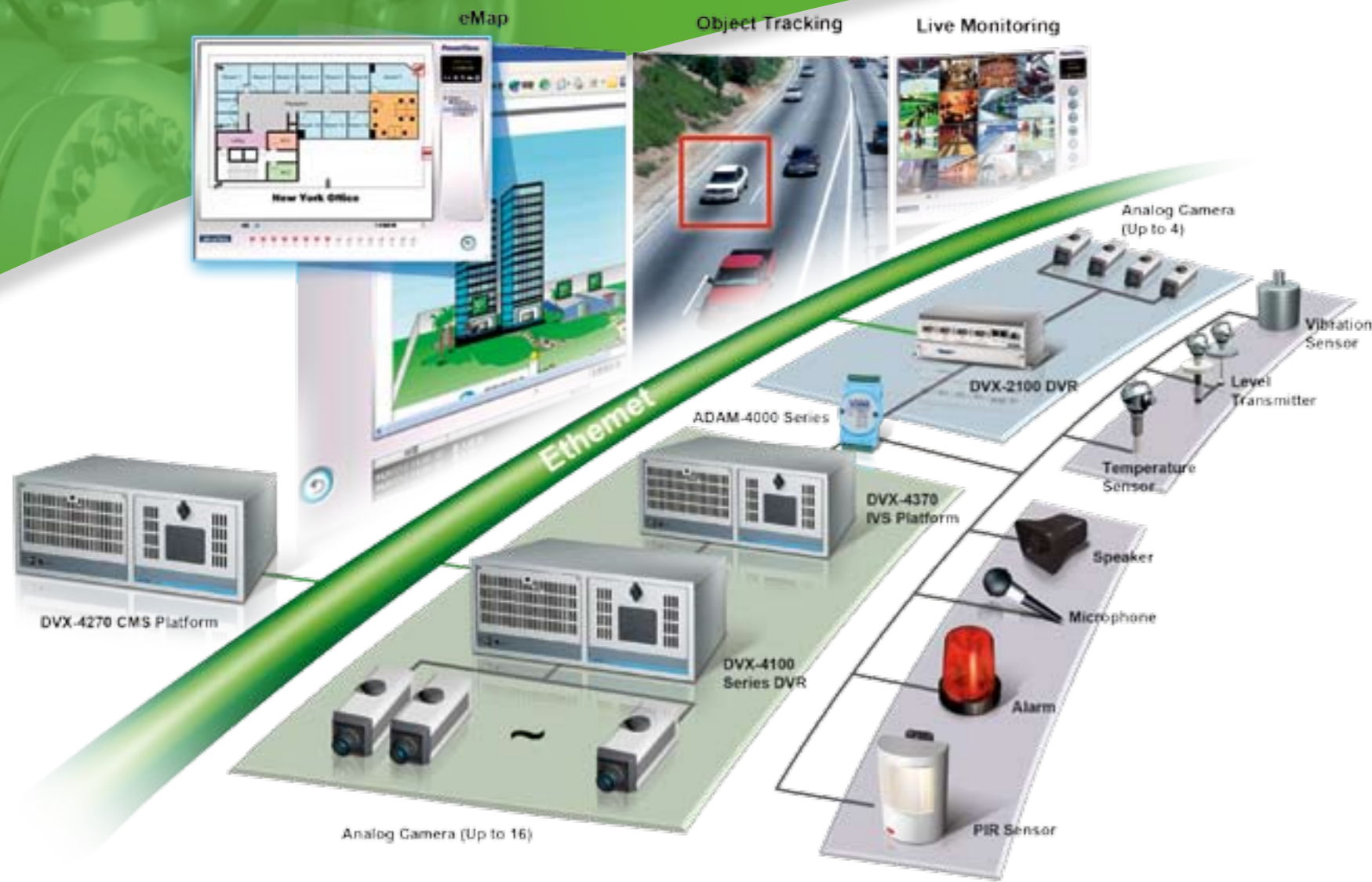
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# Solution Architecture



## Product & Solution Overview

In the video surveillance market, most vendors provide standalone DVRs that only offer live video and recording functions. However, only video monitoring alone can't satisfy the rigorous needs of the industrial automation sector. Advantech offers innovative video solutions with advanced functionality to fulfill these needs. Advantech's sophisticated knowledge already serves government, transportation, factory and environmental monitoring applications. To satisfy additional automation applications, Advantech offers DVX-4100 Series DVR with Information On-Screen, DVX-4270 CMS (Central Monitoring System), and DVX-4370 IVS (Intelligent Video System). Furthermore, a variety of versatile video capture cards (PCI, USB, and PCI-104 interface) can satisfy applications for multiple platforms.

## DVR, CMS, and IVS Systems with PowerView Software

Advantech's DVX series products come bundled with PowerView, which contains three packages of powerful video surveillance software solutions, including DVR, CMS (Central Monitoring System), and IVS (Intelligent Video System).



### DVX-4100 Series PC-based DVR Platform

16-ch Information-enabled DVR Systems

- ▶ Bundled with PowerView 6000 software to provide various functions:
  - Real Time Status Display and Notification : Instantly view system, video, event, alarm, network, connection, and backup status.
  - Flexible Recording Modes : Seven recording modes enable you to schedule recordings or trigger recordings based on camera and sensor input.
  - Full Backup Functions : Backup video from each camera, then burn a backup file onto an auto-run CD/DVD, or backup to other storage devices. The software will also estimate the storage size.
  - Powerful Remote Control via IE Browser : Perform remote playback, recording, camera configuration, eMap, and event search. In addition, view local or remote event logs using the IE browser without special client programs.
- ▶ Advantech provides development kits, including OCX and sample program, for integration with Advantech ADAM modules. Furthermore, alarms can be triggered and displayed onscreen in the event of unexpected high temperature, moisture, or increased vibration levels.
- ▶ Includes the innovative Information On-Screen function, as well as integration with Advantech WebAccess SCADA software.



### DVX-4270 CMS Platform

Video Surveillance Central Monitoring System

- ▶ DVX-4270 CMS supports up to 128 cameras on live display and 64 split live cameras on one PC
- ▶ PC-based XPe OS Video Surveillance Central Monitoring Software that offers double monitors in one CMS station
- ▶ Remote PTZ control and playback
- ▶ eMap enables administrator to easily management



### DVX-4370 IVS Platform

Intelligent Video System

- ▶ Users can easily identify and monitor objects, areas, vehicles, people, animals, goods and more. Our IVS solution offers intelligent video functions: vehicle/ people counting, virtual fence, car wrong direction, intrusion, unattended/ lost objects, and people loitering.
- ▶ Integrated with DVX-4100 series DVR for event trigger video recording and smart search function.

## Information-enabled DVR Solutions & Intelligent Video System

Advantech's "Information-enabled DVR Solutions" combine video monitoring and data acquisition from operation fields so that users can detect not only visible events, but also display the Information On-Screen to react fast and prevent accidents from occurring. In addition, Advantech offers DVX-4270 CMS to manage DVRs and latest DVX-4370 IVS to detect object and to analyze video contents for hazardous area applications.

### ▶ Information On-Screen:

The Information On-Screen, such as temperature, pressure, PH value, flow rate, are monitored by many types of sensors connected to ADAM-4000 series modules via ModBUS/RTU to detect invisible changes of environment or facilities.

### ▶ Intelligent Video System (IVS):

DVX-4370 bundled with the latest IVS technology, such as "virtual fence" function that creates virtual walls surround important equipment. If anyone enters the virtual fence area, a screen will pop up to notify the operator.

## Typical Applications

**Factory Applications:** Boiler, furnace, and compressor.

**Transportation:** Including intersection, vehicle detection and toll station monitoring.

**Environment and Facility:** For dams, rivers, furnaces and more.

## Benefits

- ▶ Intelligent video functions provide higher safety in hazardous areas.
- ▶ Information-enabled SCADA system detects unusual conditions.
- ▶ Remote monitoring and management.
- ▶ Embedded system prevents virus attack and offers the highest stability.

