



Portwell



➔ Digital Security Surveillance Service

The Evolution of Surveillance System

From Digital Security Surveillance (DSS) to Communication Appliance (CA)

The surveillance industry changed rapidly in these years, which fast adopted the high-speed digital technology.

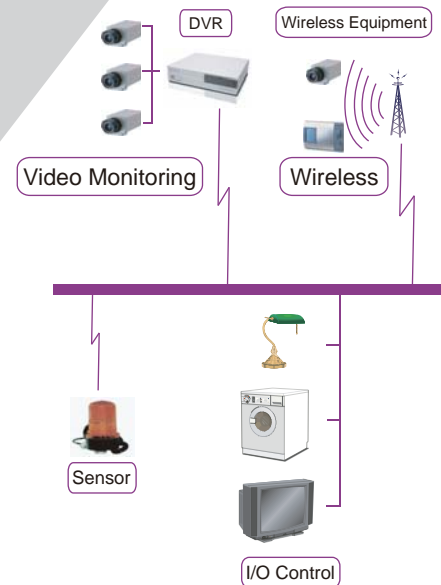
- The analog video recorder was replaced with the dedicated high-performance X86 computer.
- The VCR tape was replaced with the highly reliable RAID system.
- The complex transmission network was replaced with the IP-based digital networking thru wire or wireless.

The network video recorder converges the computing, networking, and storage technologies into a full-featured ultimate solution for DSS market at present. Leveraging the mature X86 computing power, seamless IP-based connectivity, and proven data protection by RAID comprises a scalable, hot-swappable device. Portwell is capable of integrating such flexible, but powerful, system to fulfill and maintain your best practices immediately.

The pluggable and attachable networking devices are easily installed, configured, expanded and maintained within or after the deployment. The powerful X86 computing platform is quick to configure, scale or integrate for various vertical applications. The ROI is hugely improved by diversified options, easy deployment, smooth upgrade and painless maintenance. The flexibility of digital technology creates new opportunities, comparing with classic surveillance system.

Portwell commits to work with you by leveraging our proven build-to-order capability with respect to time-to-market, quality and reliability. The leading edge DSS and CA platforms by Intel Core Duo computing, Matrix storage, gigabit networking, and Portwell patented heat resolution, MPEG-4 hardwired compression technology are validated to fulfill your requirements. Portwell is your Trusted Platform Provider.

Classic Analogue Analog and VCR Centric

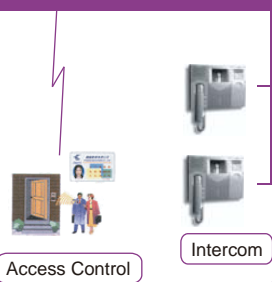


DSS has revealed various features by coupling with mobile, digital signage, video conference, and POS applications. **Mobile DSS** Enabling surveillance system, installed around vehicle, during moving records potential accident for insurance report. **Digital-Signage Surveillance** Public safety is monitored and displayed onto signage facilities, which improves the deployment and usage of assets. **Interactive Digital-Signage Surveillance** Emergency call is live to operator thru signage facilities, which masters the incident interactively and promptly. **POS DSS** Reporting instant intrusion in POS machine let the management of small store with ease. DSS is going to every corners in our daily life.

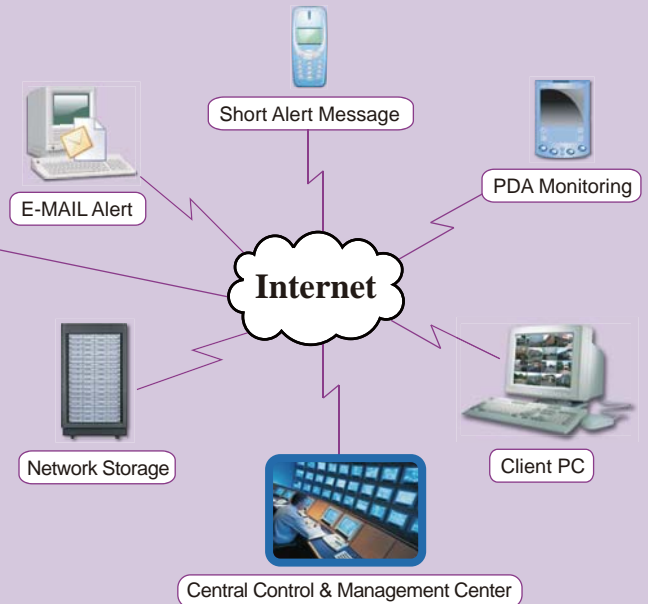
Computing

Boosting quad-core or dual-core performance for multi-threaded applications and heavy multi-tasked scenarios within constrained thermal profile, incorporating low power 45nm process in efficient memory controller hub for L2 cache and front-side bus speed, and configuring up to 64GB DDR2 memory provide compelling performance-per-watt advantages to wide range of applications. The 64-bit OS is also available for your critical missions.

Hybird System DSS Centric



Pure IP Video Network Centric



PMG-7095

The media giant, PMG-7095, gets rid of the obstacles of classic surveillance system in terms of computing, networking, and storage, and leads the surveillance industry into the new era of network-centric world.

Networking

The leading edge Gigabit Ethernet adopts a PCI Express standard with balanced performance and energy-efficient design that meets the throughput and latency requirements of storage demanding applications. The wide internal data path, advanced interrupt-handling, and large on-chip packet buffer eliminate performance bottlenecks by efficiently handling large address and data words. The I/O optimization secures the full utilization of computing capability without compromise.

Storage

Adopting RAID level 0, 1, 10, and 5 provides protection, fault tolerance, and performance. The RAID 0, called "striping", is a performance-oriented data mapping technique, which enables high I/O performance at a low cost. The RAID 1, called "mirroring", is a data redundancy technique, which provides full protection against data loss in the event of the failure of either of the disks. The RAID 5 stripes both data and parity information across three or more drives. Fault tolerance is maintained by a distributed parity algorithm. The RAID 10, called "striped mirrors", is a combination of RAID 0 and RAID 1, which provides excellent overall performance by combining the speed of RAID 0 with the redundancy of RAID 1.

Emerging DSS Solution

DSS Platform - DSS System

Compact DSS

PVS-1125

Compact Size DSS Platform with Dual-Display function for POS Application



- Stylish and compact design to fit mission critical application
- VGA, DVI, dual independent display support
- Support SD flash board to enhance system security
- Remote control support

Stylish DSS

PVS-2422

Stylish Industrial Grade Desktop DSS Platform



- Stylish and compact design
- Fantastic cooling design for CPU and add-on card
- Remote control support
- Dual Gigabit Ethernet ports

Rackmount DSS

PVR-1140

1U industrial Grade Rackmount DSS Platform



- Support Core™ 2 Duo / Core™ Duo / Core™ Solo processor
- Support PCI-E x16 slot for Graphic card, PCI-E x4 slot for RAID card and PCI slot for capture card
- Adopts Intel® Matrix Storage Technology to support RAID 0/1/5/10
- Dual Gigabit Ethernet ports

PVR-2423

2U Industrial Grade Rackmount DSS Platform



- Fantastic cooling design for CPU and add-on card
- Remote control support
- Dual Gigabit Ethernet ports

PVR-4450

4U Industrial Grade Rackmount DSS Platform



- Adopts Intel® Matrix Storage Technology to support RAID 0/1/5/10
- Support up to six PCI slots and one PCI-E x16 slot
- Support up to five HDD
- Dual Gigabit Ethernet ports

Digital-Signage Surveillance

Integrating the digital video recorder system into existing digital signage broadcasting system

- Deploying once, managing DVR and DS together
- Abundant X86 dedicated system in rackmount, standalone and SBC with varieties of form factor
- Both cost-effective and performance oriented capture board with patented heat resolution
- Proven developing cycle in timeliness, quality and reliability



Interactive Digital-Signage Surveillance

Integrating the digital video recorder system and VoIP into existing digital signage broadcasting system

- Deploying once, managing DVR, Emergency video call and DS together
- Abundant X86 dedicated system in rackmount, standalone and SBC with varieties of form factor
- Both cost-effective and performance oriented capture board with patented heat resolution
- Proven developing cycle in timeliness, quality and reliability



DSS

Surveillance system has become a key to guard our daily safety. The main challenge the public safety of our country. Portwell has been engaging in this field since past few years. The system is customizable to you. Portwell is your dedicated DSS demand. Let's work true together. Please contact us near you.



NVR (Network Video Recorder)

The Data Center to secure your home or small business environment

- Support 4 IP Camera Recording concurrently
- Support 2 x 3.5 SATA HDD Bay up to 500GB@R1 and 1TB@R0
- Support 2 x USB2.0 Port for external back-up or print-out
- Support Scheduled Recording
- Web-based Administration Program for easy configuration

DSS

...ome more and more prevalent to
...new species of threat or conflict
...both corporate and government.
...nto diversified DSS technologies
...proven platform know-how is
...provides one-stop shopping for
... Let us make the dream come
...with the Portwell global offices



POS DSS

Integrating the digital video recorder system into existing Point of Sale/Service system

- Deploying once, managing DVR and POS together
- Fanless X86 dedicated system with varieties of form factor
- Both cost-effective and performance oriented capture board with patented heat resolution
- Proven developing cycle in timeliness, quality and reliability

Mobile DSS

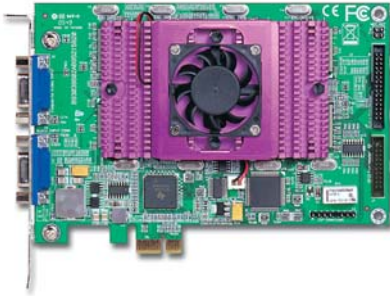
In-vehicle DSS system for your driving safety and accident recording function

- Adopt the Newest H.264 compression technology
- Support SDHC under rugged environment
- Support recycling video tapping
- Automatic turn off function when vehicle is turn off
- AVI, Video clips playback or copy on PC
- Support one sound track and two video track input
- Compact size and low power consumption
- Build-in USBOTG/IDE/PCI/RS-232 for easy expansion

Capture Card

DVC-5215

8-Channel PCI-E Digital Video Capture Card



- PCI Express x1 Interface
- 8 video and 8 audio in
- Up to 8 channel in real-time
- Spectacular cooling design
- Support multiple resolutions of 640x840, 640x240, 320x240, and 320x120
- Provides customer with a unique encryption code to protect their software IP copyright using CPLD

DVC-3132

4-Channel Video in/Audio in MPEG-4 Hardware CODEC Video Capture Card



- Hardware CODEC chip to support MPEG-2 and MPEG-4 compression format for DVD level image quality and optimal data transfer rate
- Support simultaneous 4 channels video and audio input recording
- Supports resolutions of 1-CH full D1 720 x 480 (576 PAL) FPS, and 4-CH CIF 360 x 240 with maximum of 120 FPS
- Supports hardware motion detection and zoom in and zoom out
- Low profile dimension of 167 x 55mm to fit into 2U and other commercial chassis

DVC-3111

4 / 8 / 16 Channel Digital Video Capture Card



- Up to 16 channel video input
- Cost-effective video capture card
- Supports multiple resolutions of 640x480, 640x240, 320x240, and 320x120
- With Low profile bracket, has dimension of 170 x 55 mm to fit into 2U vertically
- Provides customer with a unique encryption code to protect their software IP copyright using CPLD
- Hardware Watchdog Timer

Window & Linux System

Both Windows and Linux DVR solutions are provided and available by third parties. All capture cards and systems in hardware platform are qualified integrally for your immediate deployment.



Window



Linux

Portwell, Inc. founded in 1993, committed to advanced design and engineering expertise in electronics and mechanical with manufacturing integration capability. The effort to adhere to the world-class criteria in every aspect qualified Portwell as a member of the Intel Embedded and Communications Alliance. With streamline access to the latest Intel technology, we deliver cutting-edge solutions to meet and exceed the demanding needs of market.

Conventional surveillance systems primarily detect motion and record activity. This isn't enough to guard against today's stealthy terrorist and criminal activities. Intelligent surveillance is needed to detect and prevent harmful events. And since it is not always feasible to use real people in this regard, the security industry needs tools that can supplement human efforts.

The hardware platform needed to support computerized intelligence has a very high-performance threshold. It must be able to process very high-resolution video in real-time over multiplied channels. Such video must be simultaneously captured, analyzed and stored, with quick and easy retrieval as needed. It must also be networked so that multiple surveillance systems can be controlled from a central location. Portwell provides system integration development experience, proven expertise in CPU board, Capture card application SDK, chassis, thermal power, and packaging, to create quality DSS platform with industry grade components for both ISVs and OEM customers.



E225800



Portwell, Inc. (Headquarters)

4F, No. 186, Jian-Yi Rd., Chung-Ho City,
235 Taipei, Taiwan
Tel: +886-2-77318888
Fax: +886-2-82271109
E-mail: info@portwell.com.tw
<http://www.portwell.com.tw>

American Portwell

Fremont Tel: +1-510-403-3399
Norcross Tel: +1-510-403-3399
E-mail: info@portwell.com
<http://www.portwell.com>

Portwell Japan, Inc.

Tokyo Tel: +81-3-5298-8071
Osaka Tel: +81-6-4791-2201
E-mail: info@portwell.co.jp
<http://www.portwell.co.jp>

Beijing Portwell

Beijing Tel: +86-10-82701616
Shanghai Tel: +86-21-3222-0505
Shenzhen Tel: +86-755-8621-7695
E-mail: info@portwell.com.cn
<http://www.portwell.com.cn>

Portwell-Laxsons India

Tel: +91-22-2685-9911
E-mail: info@portwellaxsons.com
<http://www.portwellaxsons.com>

Portwell, B.V.

Tel: +31-252-620790
E-mail: info@portwell.nl
<http://www.portwell.nl>

Portwell (UK) Ltd.

Tel: +44(0)1235-750760
E-mail: info@portwell.co.uk
<http://www.portwell.co.uk>