

iPoint Surveillance Systems
by Technology Solutions of Charleston

Video Surveillance
Hybrid Video Recorders



Bridging the Analog and Digital Worlds



iPoint Ultra Hybrid
Video Recorder



Supported IP Cameras



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iPoint Systems Overview

iPoint offers a full range of network video solutions for surveillance and remote monitoring applications in analog, hybrid and pure IP configurations. iPoint's offering also includes comprehensive video management software solutions and a full range of surveillance accessories.

iPoint Ultra DVR

The iPoint Ultra Hybrid DVR is a high-end next generation of PC-based systems using H.264 hardware compression. H.264 is the latest and best compression codec available. The hardware compression technology allows the system to use less CPU power by utilizing capture cards to handle the burden of producing video. This technology allows the DVR to be expandable to 64 channels at 30 fps per channel.

The Ultra Hybrid DVR also has the best picture quality available by using the latest technology and solves tearing and interlace issues that plague MPEG4 DVRs in playback. The Ultra DVR has the ability to sync-up video and audio together so there is no delay in timing that most other DVRs experience. The Ultra DVR with these features and continual improvements stand in a class by itself.

Features of ULTRA Hybrid

Hardware H.264 Dual Stream Video Compression

The iPoint Ultra Hybrid DVRs use H.264 hardware codec to reduce CPU burden and provide solid video and audio recording capabilities. The iPoint Hybrid Ultra supports network dual stream to ensure smooth video transmission, overcoming bandwidth shortcomings and network congestion.

Expandability up to 64 Cameras

The iPoint Ultra Hybrid supports up to 64 channels of IP cameras, analog cameras and analog audio in a single machine. Due to hardware codec capture cards, it guarantees stable video and audio capture with real time recording and viewing on every channel.

High Resolution Monitor Support

The iPoint Ultra Hybrid supports the newest high resolution VGA and DVI monitors up to 1920 x1080. These high resolution monitors improve visibility for multi-channel video when viewing more than 16 cameras on a screen. This full high resolution support cannot be achieved from a contemporary standalone DVR.

Live View and Record on Every Channel

The iPoint Ultra Hybrid ensures all channels support real time recording at 2CIF.

iPhone and Blackberry Support

The iPoint Ultra Hybrid supports iPhone and Blackberry without charge. You can monitor your cameras on the go.

Up to 4 Monitors Support on DVR and Client Side

The iPoint Ultra Hybrid supports dual and quad monitors on the DVR and the client side. Up to 4 monitors can be installed on the DVR or on the Client.

Typical iPoint Ultra Applications

Excellent recording quality, scalability and compatibility make the iPoint Ultra Hybrid a good fit for installations such as education, commercial and retail markets, government and correctional facilities.



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Hot Swappable RAID Options

Secure your video and audio data with a hot swappable RAID systems. Supports RAID 0, 1, 5, and 10. Whatever you need, iPoint has the solution.

Additional Features of ULTRA Hybrid

Virtual Matrix Support: Up to 384 Cameras (TV Client)

The iPoint Ultra Hybrid supports a virtual matrix (TV Client). Each TV Client can have 4 VGA, DVI, or HDMI outputs and 6 TV Clients can be connected at the same time. Each monitor out can have 16 programmable video channels displayed at once. With 24 monitors, it can display 384 cameras simultaneously with the TV Client.



I/O Board for Alarm In / Out

Optional sensor-in and alarm-out provide more flexible system integration. Sensor-in can trigger alarm-out, start video and audio recording, activate PTZ camera, email notification, etc.

POS (Point of Sales) Integration

The iPoint Ultra Hybrid offers an affordable POS integration solution. It supports most of POS cash registers available on the market.

Perfect Audio Sync

iPoint is proud of the perfect video and audio sync of the Ultra Hybrid. Many of our customers are extremely satisfied with the audio quality and the perfect sync between video and audio.

Windows 7 Support (32 & 64 Bit)

The iPoint Ultra Hybrid supports the new Windows7, both 32 bit and 64 bit versions.

The iPoint Hybrid Ultra achieves 30 fps recording at 704 x 240 (2CIF) per channel, while utilizing the network dual stream function from 704 x 240 recording resolution

Typical Hybrid Recorder Configuration



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Hybrid DVR = IP Cameras + Analog Cameras

iPoint Ultra Hybrid can be the perfect bridge between analog and IP security. You can use traditional analog BNC out cameras along with the latest IP cameras.

DVR System:

- 1-64 channels video and audio input
- Each channel can be compressed independently
- Support matrix video output & group video output
- Quad display operation for live monitoring and playback (setup interface) on four monitors
- Support 1280*1024 VGA resolution
- OSD & LOGO adjust position freely
- Supports IP servers and IP cameras connected through the network
- Instant playback in the current preview window
- Control PTZ in the current preview window with mouse or keyboard

Recording & Storage:

- Advanced H.264 compression technology
- Every channel can be setup independently for recording mode, such as consecutive recording, motion recording, sensor recording and can be setup for recording by scheme
- Supports variable bit rate and variable frame rate
- Quality and continuity of every image when recording can be adjusted freely
- Supports multi-hard disk circular recording automatically

Playback:

- Playback and record can run at the same time without effect on either function
- System can playback in single partition or multi-partition
- System can be set to precisely any hour, any minute and second to quickly index recorded data
- System has several playing back speeds: play back normally, single frame, quickly (2-5 time), slowly (1/2-1/5), freezing images and skipping to the set time
- System supports playback, partial zoom and real time

Authority Management & System Protection:

- Locks keyboard and mouse preventing unauthorized access to the system
- The system has the function of Water Mark Proof for forgery to ensure that the image can not be modified.
- Mobile Client: Mobile Client enables users to connect to DVR server to get images and control PTZ Camera through smart phone.
- POS-DVR: By bringing transaction data and video together to establish a POS-DVR surveillance system. It provides visual text information to reduce shrinkage and prevent asset loss. It supports both direct COM and TCP/IP connection or COM to TCP/IP. UP to 64 POS machines are available.
- IP Cameras: Adopts digital technology to preserve the image quality that can derogate between the analog and digital signal during transport. IP Cameras can be added to the DVR Server through the network for true Hybrid DVR Servers.
- DVD/CD Burning: DVR server supports burning DVD/CD directly, up to 4.3TB available.
- Quad Monitor: DVR servers can output to 4 monitors, user can preview and play back simultaneously on 4 different monitors.
- Multilevel User Management: Password expiration management provides better security. System administrators can set expiration or disable a user's account. Features also include password edit, account edit and more.
- Alarm: When the system detects alarms, the electronic map will appear automatically and the related sensors and cameras will be marked. User can set different sounds for different alarms. Alarms also can trigger email to a user's mailbox with a picture of the alarm-related camera, captured as attachment.
- Network Transmit: User can set the maximum number of video that can be connected from a client. The number can be set according to the network bandwidth.
- TV Out: DVR Server enables video output from current windows and IP cameras to the TV Wall through the matrix decode card. It can be easily implemented by setting matrix display groups.
- USB Mobile Storage: DVR Server can check the USB storage device dynamically. User can hot-plug USB devices.

Control Function:

- Control PTZ or speed demo through RS485
- Control PTZ or speed demo through PC keyboard
- Set preset positions for each camera independently
- Tour all preset positions

Alarm Function:

- Support 64 channels sensor input and 64 channels alarm output
- Sound warning when alarming for each camera
- Digital map popup when alarm is triggered
- Long-distance alarm signal transmission through the network
- Sends Email automatically when camera or sensor alarm is triggered

Network Function:

- Supports PSTN, ISDN, ADSL, DDN, LAN, Internet
- Support Dynamic IP
- It adopts advanced network compression technology
- Support remotes connection of NVR,IE,PDA,NVMP through the network

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iPoint Digital Video Recorders are compatible with a wide range of analog and digital cameras

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Hybrid Surveillance Server

	Ultra 4	Ultra 8	Ultra 16	Ultra 24	Ultra 32	Ultra 48	Ultra 64
LOCAL VIEWING							
Camera Inputs	4 Ch	8 Ch	16 Ch	24 Ch	32 Ch	48 Ch	64 Ch
Video	VGA(1), Optional 2 or 4 Channel Matrix Display						
Screen Split	1, 4, 9, 13, 16, 20, 25, 28, 33, 36, 40, 49, 64						
Viewing Frame Rate	30 FPS Per Camera						
Total Viewing Frame Rate	120 FPS	240 FPS	480 FPS	720 FPS	960 FPS	1440 FPS	
Resolution	704 x 480						
LOCAL RECORDING & SEARCHING							
Screen Split	1, 4, 9, 13, 16, 20, 25, 28, 33, 36, 40, 49, 64						
Recording Frame Rate		30 FPS @ 352 x 240	30 FPS @ 528 x 320	15 FPS @ 704 x 480			
Total Recording Frame Rate	120 FPS	240 FPS	480 FPS	720 FPS	960 FPS	1440 FPS	1920 FPS
Compression (CODEC)	Hardware H.264						
Audio Compression	OggVorbis 16Kbps						
Resolution		Selectable:	352 x 240	528 x 320	704 x 480		
Audio	4 Ch	8 Ch	16 Ch	24 Ch	32 Ch	48 Ch	64 Ch
Recording Mode	Continuous, Scheduled, Motion Detection Triggered or Sensor Triggered						
Search Mode	Date Search, Smart Search						
Zoom	Yes						
Backup Mode	Direct CD Burn, USB flash disk, USB hard disk, USB CDRW						
Watermark	AES/MD5 (Court Admissible)						
Time Stamp	Image Embedded With Date and Time Information						
SYSTEM							
Standard Storage	250 GB	500 GB	500 GB	1 TB	1 TB	1 TB	1 TB
Max. Storage	3 TB						
O/S	Microsoft Windows						
Backup Media	CDRW(Default), DVD±RW(Optional), Any USB external Device						
PTZ Control	PTZ GUI Interface (RS-232/422 Interface), RS485 (Optional)						
Alarm In	Via Optional Alarm Relay Sensor (up to 16 I/O)						
Alarm Out	Email, SMS, FTP Image Files (up to 16 I/O)						
GENERAL							
Input Voltage	100-240VAC, 50/60 Hz						
Operating Temperature	25°F ~ 110°F						
Dimension	Rackmount: 7.0" (H) x 19.0" (W) x 23"(D)						
Weight	Rackmount: Approximatley 40 lbs.						



Remote Connect

Connect remotely to view, search, and manage your cameras virtually anywhere you have internet access.

Remote Access Software

REMOTE VIEWING/SEARCHING

Camera Viewing	Up 64 Channels Simultaneously
Searching (Playback)	Up to 4 Channel Playback Simultaneously
Compression (CODEC)	Hardware H.264
Communication	Full Remote Control PSTN, ISDN, ADSL, LAN and TCP/IP
E-mail Notification	Yes
Remote Management System	Yes

Web Client

REMOTE VIEWING/SEARCHING

Camera Viewing	Up 16 Channels Simultaneously
Searching (Playback)	Up to 4 Channel Playback Simultaneously
Compression (CODEC)	Hardware H.264
Communication	Full Remote Control PSTN, ISDN, ADSL, LAN and TCP/IP
E-mail Notification	Yes
Remote Management System	Yes

Smart Phone Client

REMOTE VIEWING/SEARCHING

Camera Viewing	Up 16 Channels Simultaneously
Searching (Playback)	Up to 4 Channel Playback Simultaneously
Compression (CODEC)	Hardware H.264
Communication	Full Remote Control PSTN, ISDN, ADSL, LAN and TCP/IP
E-mail Notification	Yes
Remote Management System	Yes

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