

# NVR and NDVR

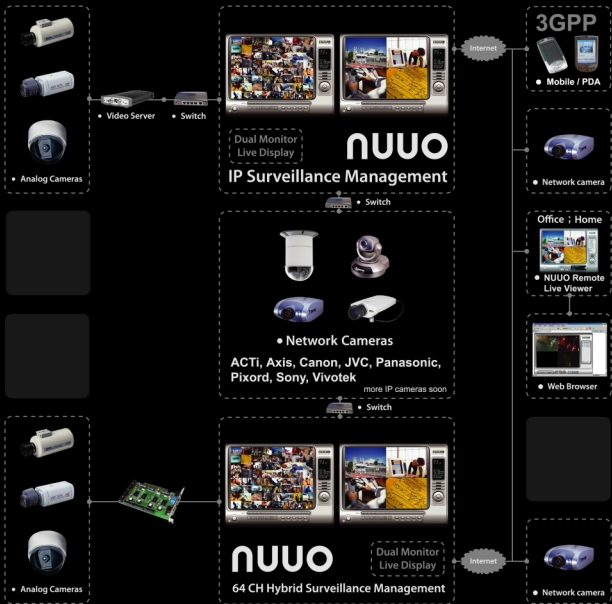
## Security Crystal Board

Complete PC - Based Digital Surveillance Solution

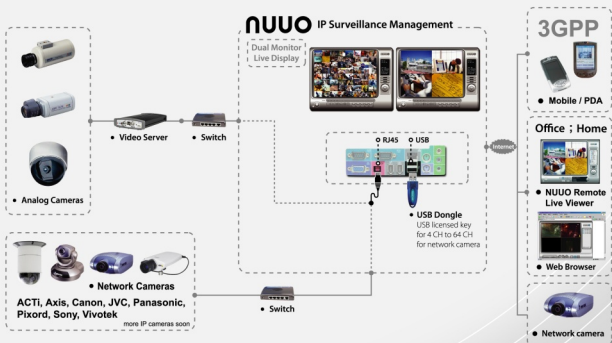
- Hardware H.264

- Software MPEG-4

- 64 CH Surveillance & Management System
- H.264 Solution Provider
- Dual Monitor Live Display
- 3GPP Support



# IP Video Surveillance Management System



- The management software support all IP cameras and video server from ACTi, Axis, Canon, JVC, Panasonic, Pixord, Sony, Vivotek more network cameras will be integrated soon.

- The USB licensed key is like a lock and activate number of network cameras by different package.

## Benefits

### • Pure Digital System

1. Top quality recordings.
2. Easy maintenance.
3. Freedom from changing tapes.
4. No cumbersome storage of tapes.

### • Network based system

1. Run multiple cameras via the same cable / Ether net.
2. Cover larger areas more efficient .
3. Connect via the Internet for remote access.
4. Better scalable and performance.

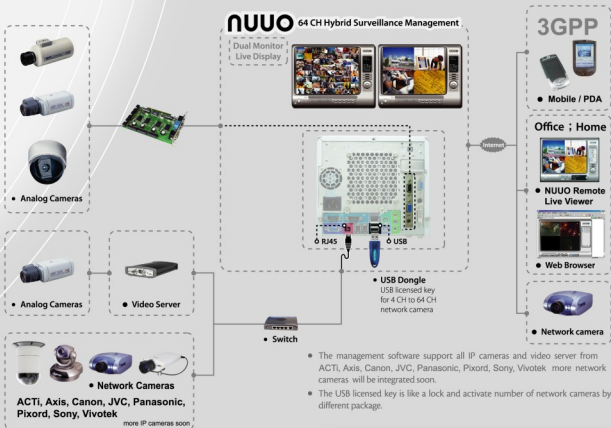
## More Features

- Support IP cameras up to 64 channels or more by different package.
- Support whole series products of ACTi, Axis, Canon, JVC, Panasonic, Pixord, Sony, Vivotek and more network cameras.
- Utilizing complete functions supplied by IP cameras and easy configuration.
- Support intelligent detecting motion, missing object, foreign object, lose focus and camera occlusion.
- Dual monitor support for viewing live video and playback simultaneously.
- Embedded video enhancement tools when playback to improve image clarity in poor visibility conditions.
- Printing and image/video export of evidence.
- Complete system and event log database.
- Enables manual control ,preset and patrol of PTZ and dome camera.
- Enable I/O connection on cameras.
- Remote access from windows application or web browser.
- Built-in web server for connection from web browser.

## Management Software Features

- Embedded smart guard system to handle unusual events and instant notification actions.
- GUI interface to setup recording schedule without limitation.
- Smart Search for motion , missing object, foreign object and more events. (\* More details in page 4,5,6 )

# 64 CH Hybrid Surveillance Management System



Asking companies with tight budgets to tear out old systems to being using IP cameras is simply not prudent, especially when they can start exploiting benefits of IP using hybrid system that amortize costs of presently-installed analog CCTV equipment.

Such a strategy lets users already invested in legacy analog systems create IP-based video networks while continuing to use existing analog equipment. Then as a budgets and system grow, when older analog components being to fail, and new needs arise, they can continue to add IP-based components in a most efficient manner.

## Benefits

- Supporting both IP camera and analog camera
- Seamless management and recording on the same system
- Hybrid mode makes it easy to build surveillance solutions fit any environment.

## Management Software Features

- Embedded smart guard system to handle unusual events and instant notification actions.
- GUI interface to setup recording schedule without limitation.
- Smart Search for motion, missing object, foreign object and more events. (\* More details in page 4,5,6)

## More Features

- Support max 32 CH IP cameras or video servers and max 32 CH analog cameras.
- Support whole series products of ACTI, Axis, Canon, JVC, Panasonic, Pixord, Sony, Vivotek and more network cameras.
- Utilizing complete functions supplied by IP cameras and easy configuration.
- Support intelligent detecting motion, missing object, foreign object, lose focus and camera occlusion.
- Dual monitor support for viewing live video and playback simultaneously.
- Embedded video enhancement tools when playback to improve image clarity in poor visibility conditions.
- Printing and image/video export of evidence.
- Complete system and event log database.
- Enables manual control, preset and patrol of PTZ and dome camera.
- Enable I/O connection on cameras.
- Remote access from windows application or web browser.
- Built-in web server for connection from web browser.

# Overall Feature

## Dual monitor for optimal surveillance

Microsoft Windows application  
Up to 16 video channels of monitoring  
Up to D1 recording resolution  
Synchronized video and audio  
System log, event log and counting log viewer

Backup to hard disk, DVD, CD and network storage  
Motion detection recording  
Full screen display  
PTZ control integration  
I/O device integration

# Management Software

- IP Video Surveillance Management System
- Hybrid Surveillance Management System
- Capture Card

## ● Major Feature

**Smart Guard subsystem : smart detector for motion, object, signal lost, lose focus and camera occlusion**

Adjustable recording quality and frame rate for each camera

**Recording subsystem : easily configured recording schedule**

Alarm to E-mail and telephone

Smart Guard System integrated by smart detector, alarm system and I/O device

Object counting application

System lock protection

## ● Playback System

Multiple channels playback simultaneously, up to 16 channels

Easy day and time selection for recorded video

Smart search functions for motion and objects

Export video to avi files

Save and print recorded video clips

Real-time video enhancement tools when playback

Remote playback

## ● Remote Live View

Connect to multiple servers

Build-in web server

Remote PTZ Control

User account protection

ActiveX view for Internet Explorer

## Dual Monitor Function

Now, you can enjoy the optimal surveillance display upon your need right now. You can watch 64 channels on primary monitor as well as some highlight channels in Secondary monitor either live display or playback.



- Primary monitor for all channel live display and secondary monitor for the most important 1 CH, 4 CH or 16 CH live display.



- Primary monitor for some channels live display and secondary monitor for some channel playback.

# Management Software







- IP Video Surveillance Management System
- Hybrid Surveillance Management System
- Capture Card

## • Main system / Smart Guard subsystem - Protect you environment on the spot

### EVENT

- General Motion
- Camera Occlusion
- Foreign Object
- Missing Object
- Lose Focus

### ACTION

On Screen Display    Play Sound    Send E-Mail    Phone Call    PTZ Preset Go    Signal Digital Output

#### Smart Guard Configuration


Event

- CAM01 Camera 1
  - General Motion
  - Signal Lost
  - Camera Occlusion
  - Foreign Object
  - Missing Object
  - Lose Focus
- CAM02 Camera 2
- CAM03 Camera 3
- CAM04 Camera 4
- Digital Input
- System
  - Disk Space Exhausted
  - System Health Unusual

Action

Action	Options
On Screen Display	
Play Sound	C:\Program Files\WUJO\w...
Send E-Mail	kate
Phone Call	kate
PTZ Preset Go	CAM01 On:01 Off:01
Signal Digital Output	(card1)0000 (Output 0)

Video Preview



Do you install a surveillance system only for playback and try to find out who put the bomb or stole your valuables ?

No , A smart surveillance system should alert you right after the event happen so that you can deal with the event in no time and prevent that accident happening and loss.

### Smart detection for events

- General motion detection : when someone or something move into a forbidden area.
- Signal lost : when some one cut or loose the signal wire.
- Camera occlusion : when someone block or spray the camera lens.
- Foreign object : when someone put a bomb or obstacle in a clear space.
- Missing object : when the valuables and jewellery was moved out.
- Lose focus : when focus shift.
- Digital input : when smoke detector trigger or door opened when break in.
- Disk space exhausted
- System health unusual :
  - High CPU temperature
  - Low fan speed

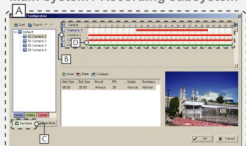
### Instant action / Notification

- On screen display : To alert the administrator on the monitor.
- Play Sound : To alert the administrator by the speaker.
- Send email : To alert administrator and boss by email.
- Phone call : To alert administrator and boss by phone.
- PTZ preset go : The PTZ will turn to some specific angles and start recording as we set in advance.
- Signal digital out : To alert the administrator and more people by sirens.

# Management Software

- IP Video Surveillance Management System
- Hybrid Surveillance Management System
- Capture Card

## • Main system / Recording subsystem - Most friendly GUI recording schedule



- A One page to set up recording schedule
- B Graphic bar for quick setting recording period
- C Day mode and week mode provided
- D Obvious distinguish between continuous recording and motion detection recording by color.

Double click  
any recording bar >>>



- E Video frame rate, quality and resolution adjustable
- F Preview recording result before final setting
- G Motion detection recording option

## • Playback System - Easy to find video you want



- A Preview video to check what happened before you decide to playback any section.
- B Graphic bar for quick selection for any camera or any period to playback.
- C Search Video by date and time with GUI.

## • Intelligent Search

Intelligent search can search various events in the recorded video



- A General motion search
- B Missing object search
- C Foreign object search
- D Lose focus search
- E Camera occlusion search

## • Video Enhancement Tool - Get better video quality when you playback



- Before sharpening video

- After sharpening video

## Specification : Capture card for CCTV analog cameras

### H.264 Hardware compression Series / SCB 5000

#### ● SCB-5004



Video Input ( s )	4	8
Audio Input ( s )	4	8
Maximum Card ( s )	4	2
Display Rate	120 fps ( NTSC ) 100 fps ( PAL )	240 fps ( NTSC ) 200 fps ( PAL )
Recording Rate	120 fps ( NTSC ) 100 fps ( PAL )	240 fps ( NTSC ) 200 fps ( PAL )
Video Resolution	NTSC : 352 x 240 , 528 x 320 , 704 x 480 PAL : 352 x 288 , 528 x 384 , 704 x 576	
Compression Type	Hardware H.264	
Dimensions	154 ( W ) x 95 ( H ) mm	201 ( W ) x 109 ( H ) mm

#### ● SCB-5008



### MPEG 4 series / SCB 3000



	SCB-3004	SCB-3008	SCB-3012	SCB-3016
Video Input ( s )	4	8	12	16
Audio Input ( s )	4	4	4	4
Maximum Card ( s )	2	2	2	2
Display Rate	120 fps ( NTSC ) , 100 fps ( PAL )			
Recording Rate	120 fps ( NTSC ) , 100 fps ( PAL )			
Video Resolution	NTSC : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 480 PAL : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 576			
Compression Type	Software MPEG-4			
Dimensions	150 ( W ) x 100 ( H ) mm			

### MPEG 4 series / SCB 2000





	SCB-2004	SCB-2008
Video Input ( s )	4	8
Audio Input ( s )	2	2
Maximum Card ( s )	4	4
Display Rate	60 fps ( NTSC ) , 50 fps ( PAL )	
Recording Rate	60 fps ( NTSC ) , 50 fps ( PAL )	
Video Resolution	NTSC : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 480 PAL : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 576	
Compression Type	Software MPEG-4	
Dimensions	150 ( W ) x 100 ( H ) mm	

### MPEG 4 series / SCB 1000












	SCB-1004	SCB-1008	SCB-1012	SCB-1016
Video Input ( s )	4	8	12	16
Audio Input ( s )	1	1	1	1
Maximum Card ( s )	4	4	2	2
Display Rate	30 fps ( NTSC ) , 25 fps ( PAL )			
Recording Rate	30 fps ( NTSC ) , 25 fps ( PAL )			
Video Resolution	NTSC : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 480 PAL : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 576			
Compression Type	Software MPEG-4			
Dimensions	120 ( W ) x 89 ( H ) mm			

## Specification : IP Surveillance Management System for network cameras

SCB IPX	SCB-IP-04	SCB-IP-08	SCB-IP-12	SCB-IP-16	SCB-IP-32	SCB-IP-64
 	Maximum Number of network Cameras					
	4	8	12	16	32	64
	<ul style="list-style-type: none"> <li>The management software support all IP cameras and video server from ACTi, Axis, Canon, JVC, Panasonic, Pixord, Sony, Vivotek more network cameras will be integrated soon.</li> <li>The USB licensed key is like a lock and activate number of network cameras by different package.</li> </ul>					

## Specification : Hybrid Surveillance Management System for CCTV analog cameras and Network cameras

Hybrid 3000 ="SCB 3000"+"SCB IPX"	SCB-3004-IP4	SCB-3008-IP8	SCB-3012-IP12	SCB-3016-IP16
  	Analog Cameras			
	4	8	12	16
	Network Cameras			
	4	8	12	16
	Audio Input ( s )			
	4	4	4	4
	Maximum Cards			
	2	2	2	2
	Display Rate			
	120 fps ( NTSC ) , 100 fps ( PAL )			
	Recording Rate			
	120 fps ( NTSC ) , 100 fps ( PAL )			
	Video Resolution			
	NTSC : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 480			
	PAL : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 576			
	Compression Type			
	Software MPEG-4 for analog cameras video stream			
	Dimensions			
	150 ( W ) x 100 ( H ) mm			
Hybrid 2000 ="SCB 2000"+"SCB IPX"	SCB-2004-IP4	SCB-2008-IP8		
  	Analog Cameras		8	
	4			
	Network Cameras		8	
	4			
	Audio Input ( s )		2	
	2			
	Maximum Cards		4	
	4			
	Display Rate		60 fps ( NTSC ) , 50 fps ( PAL )	
	60 fps ( NTSC ) , 50 fps ( PAL )			
	Recording Rate		60 fps ( NTSC ) , 50 fps ( PAL )	
	60 fps ( NTSC ) , 50 fps ( PAL )			
	Video Resolution		NTSC : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 480	
	PAL : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 576			
	Compression Type		Software MPEG-4 for analog cameras video stream	
	Dimensions		150 ( W ) x 100 ( H ) mm	
Hybrid 1000 ="SCB 1000"+"SCB IPX"	SCB-1004-IP4	SCB-1008-IP8	SCB-1012-IP12	SCB-1016-IP16
  	Analog Cameras		12	
	4		16	
	Network Cameras		12	
	4		16	
	Audio Input ( s )		1	
	1		1	
	Maximum Cards		2	
	4		2	
	Display Rate		30 fps ( NTSC ) , 25 fps ( PAL )	
	30 fps ( NTSC ) , 25 fps ( PAL )			
	Recording Rate		30 fps ( NTSC ) , 25 fps ( PAL )	
	30 fps ( NTSC ) , 25 fps ( PAL )			
	Video Resolution		NTSC : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 480	
	PAL : 320 x 240 , 640 x 240 , 640 x 480 , 720 x 576			
	Compression Type		Software MPEG-4 for analog cameras video stream	
	Dimensions		120 ( W ) x 89 ( H ) mm	