



IP Matrix Client Software WV-ASM970 (Ver2.0)

Security & AV Systems Business Unit Panasonic System Networks Company

What is WV-ASM970

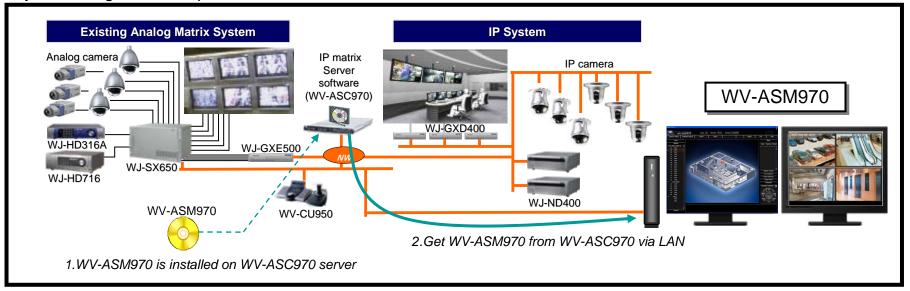


Client software for WV-ASC970 system.

Control and operate almost all Panasonic products below.

- -Network cameras and analog cameras
- -Matrix switchers
- -Network disk recorders and digital disk recorders
- -Network encoders
- -Network video decoders
- -Monitors for Client PCs on which this software is installed
- -Analog monitors

System diagram example



WV-ASM970 Features



(1) Multi-monitor & Multi-screen

Dual display operation (Operation & Map window and Monitoring window) 1/4/7/9/10/13/16 multi-screen modes

(2) Simple and Easy operation

Seamlessly control IP and Analog devices

Timeline & Synchronized playback

Operate not only the Monitoring window but also the display through GXD400

(3) Map Display

Easily recognize the location of the camera physically

Display live image by clicking the camera icons

The alarm triggered camera blinking in red.

(4) Alarm notification

Automatically changes the alarm triggered camera image on the monitor.

The alarm list is displayed with orange frame

(5) No additional license fee

No need additional fee to add on the PC for ASM970.

Outline of the multi-monitor function



Support dual displays such as Operation & Map window and Monitoring window





Monitoring window

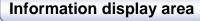


- 9
- Operate all functions except for configurations of this software
- Displays a map with the registered camera icons.

- Display live images or playback images.
- 1/4/7/9/10/13/16 multi screen modes are selectable

Multi-monitor function (Operation & Map window)

SmartHD



The following status will be displayed.

- . Area ID
- . Monitor ID (Selectable)
- . Camera ID (Selectable)
- . DVR ID
- . Server PC status (Invalid, Prohibit)

Selection panel

The following titles are selectable.

- . Area
- . Monitor tree & multiple layout pattern panel
- . Camera & Recorder tree



Operation panel

- . Camera Control
- . Playback Control
- . Search
- . Setup
- . Logout
- . Exit
- . Help

Function panel

The following function panel will be displayed.

- . Alarm
- . Monitor Control
- . Tour Sequence
- . Group Sequence
- . Group Preset
- . Download

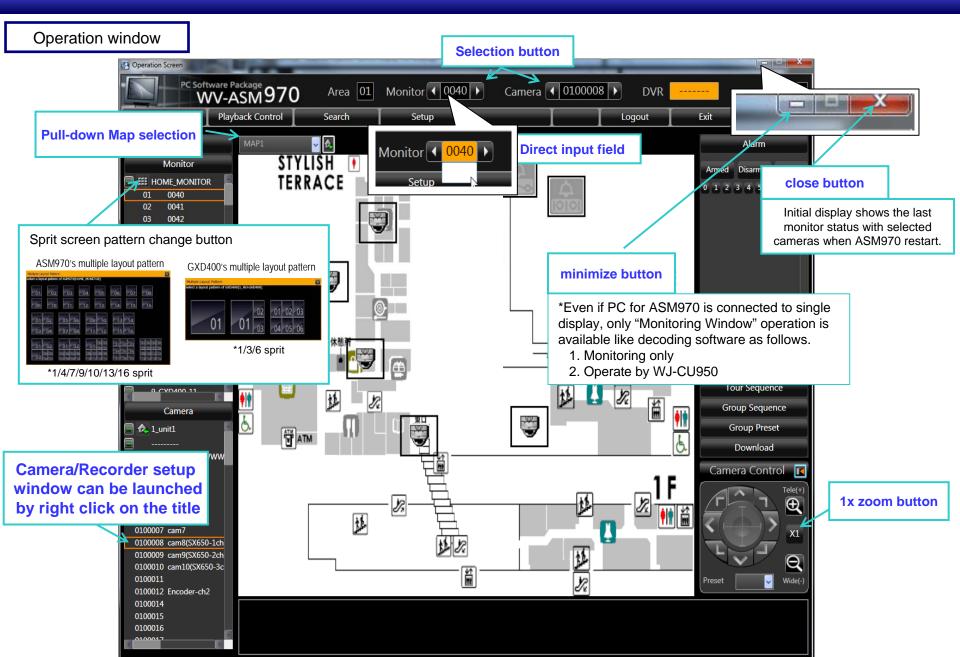




- Pan/tilt
- . Zoom
- **Brightness**
- . Focus
- . AUX
- . Auto mode
- . Preset
- Camera menu

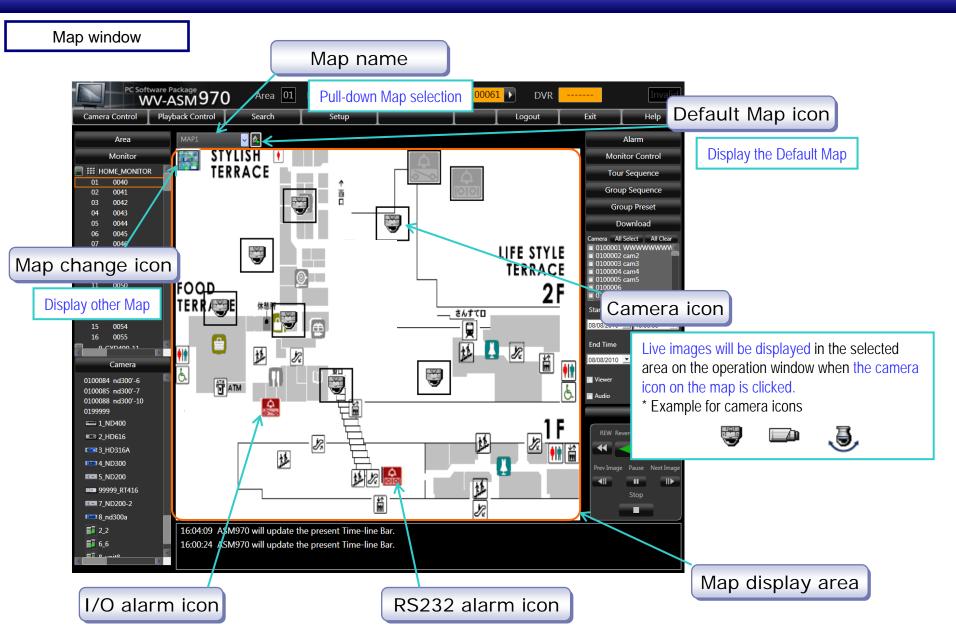
Operation & Map window improvement (ASM970 V2)





Operation & Map window improvement (ASM970 V2)

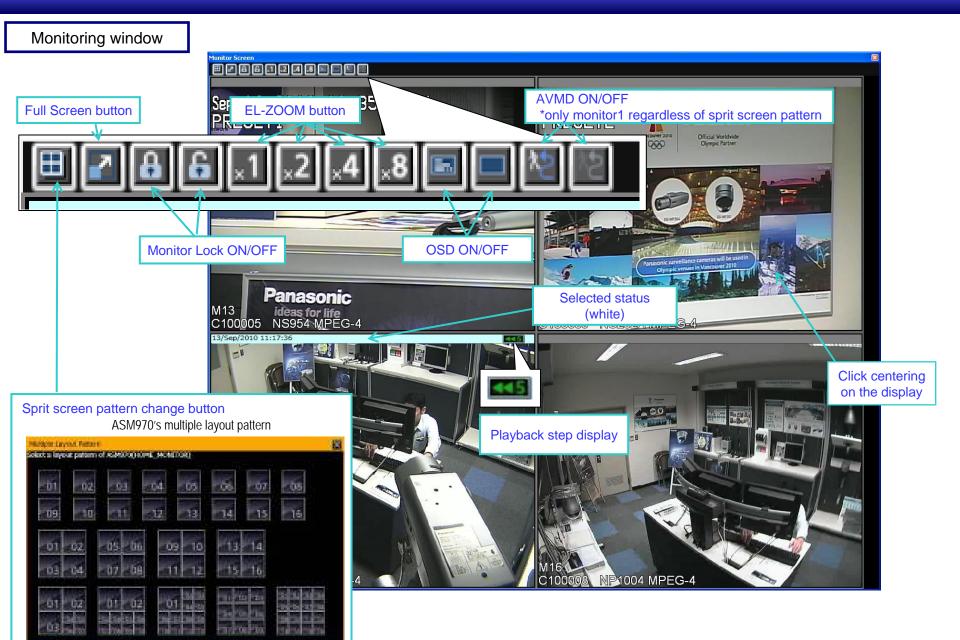




Monitoring window improvement (ASM970 V2)

*1/4/7/9/10/13/16 sprit





Simple and Easy operation

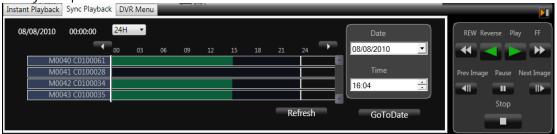


Seamlessly control IP and Analog devices like joystick system controller WV-CU950. Timeline & Synchronized playback





Sync Playback panel



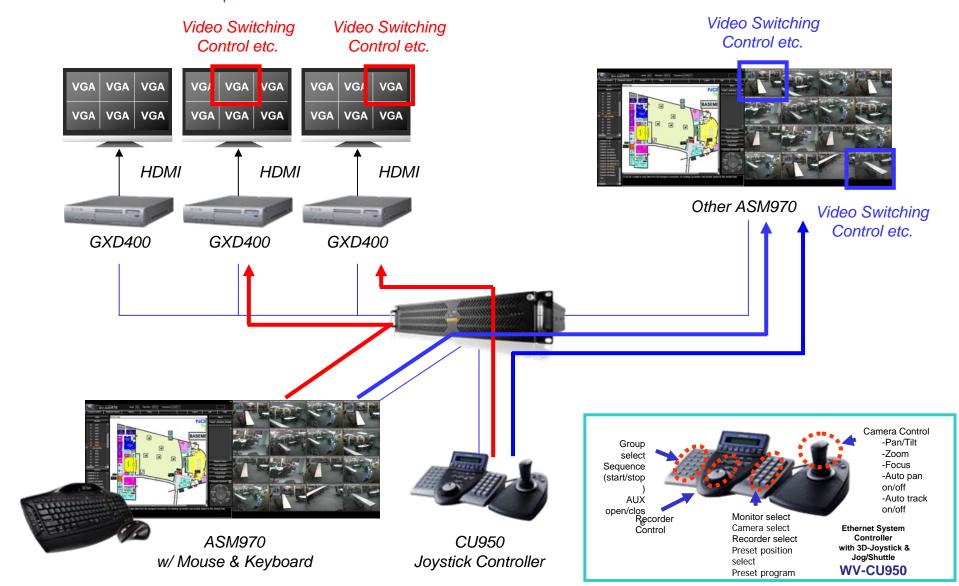
DVD menu panel



Seamless Monitor Operation



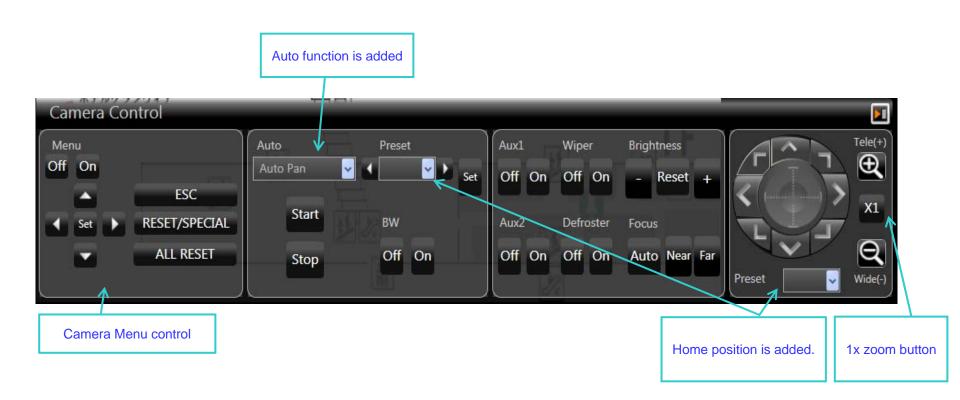
ASM970 can operate not only the monitoring window of ASM970 but also the display through GXD400. WV-CU950 also can operate them.



Camera Control panel improvement (ASM970 V2)

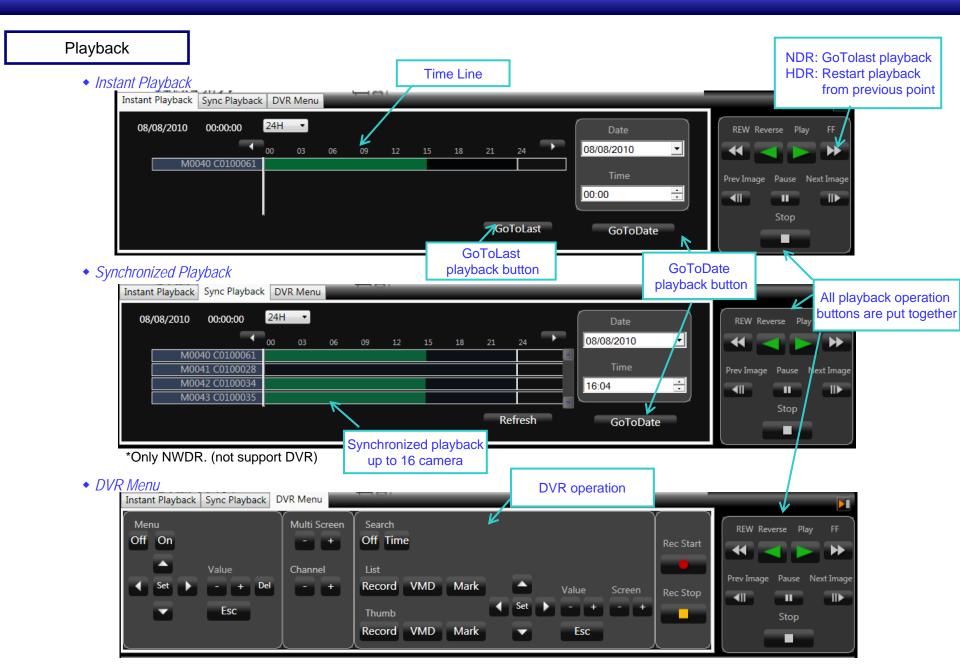


Camera Control



Playback panel improvement (ASM970 V2)





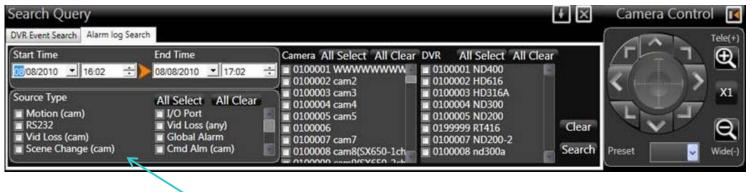
Search panel improvement (ASM970 V2)



Search

All Select / All Clear button ◆ DVR Fvent Search **↓** × Search Query DVR Event Search Alarm log Search REW Reverse Play All Select All Clear Start Time **End Time** 0100043 np244 nd200-15 07/09/2010 ▼ 13:26 14:26 07/09/2010 ■ 0100044 np244 nd200-16 0100045 np244 nd300-1 Prev Image Pause Next Image Event All Select All Clear ■ 0100046 np244 nd300-2 Clear ☑ Schedule **∢**II II. ✓ Manual Ш ■ 0100047 np244 nd300-3 Emergency ■ Terminal alarm Search 0100048 np244 nd300-4 Stop Site alarm Command alarm 0100049 np244 nd300-5 **■ VMD** ■ Video loss Cancel ■ 0100050 np244 nd300-6 01000E1 -- 244 -- 4200 7 100 ft 107 100 14 15 100 107 18 18 20 21 22 20 24 25 28 27 20 20 Cancel button

Alarm log Search



Search by ASC970 alarm source

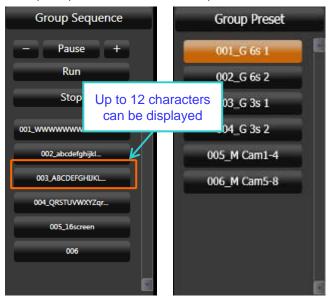
Operation panel improvement (ASM970 V2)











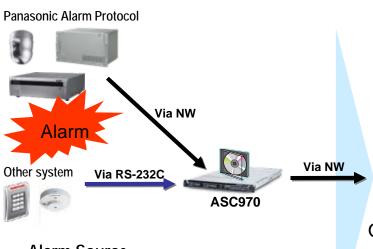


Alarm Notification & Actions



Alarm Programming, Alarm target display assignment and Alarm actions are available.

- -Various Alarm actions
- -The camera icon blinks in red on Map display (*only camera alarm)
- -Alarm information list



Monitoring Window



Alarm camera can be displayed with red frame.

Alarm Actions (local / Global)

- Video Switching
- Camera Preset Call
- Tour Sequence

Alarm

- Group Sequence
- Group Display



- VMD (Analog, IP camera)
- Video Loss (SX650/SX850)
- RS-232C(Proprietary)
- Terminal Input (DVR, NWDR, SX650, SX850, IP camera)
- Intruder Detection(NT314)
- Object Remove (NT314)
- RAID Down (DVR, NWDR)
- Thermal Err (DVR, NWDR)





The camera icon blinks red for 10 sec. and then is displayed in red color.



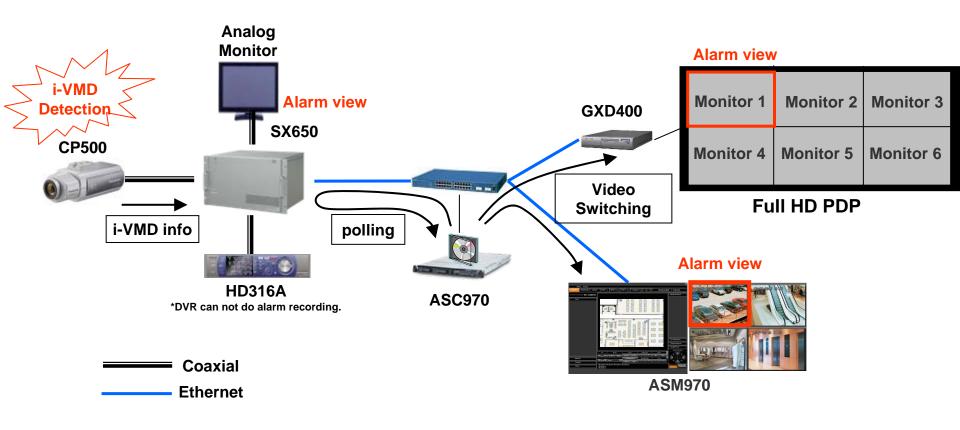
Alarm info. list

- Alarm source
- Alarm time

Alarm Notification example of i-VMD



WV-ASC970 can handle i-VMD alarm as same as traditional VMD alarm of analog camera.



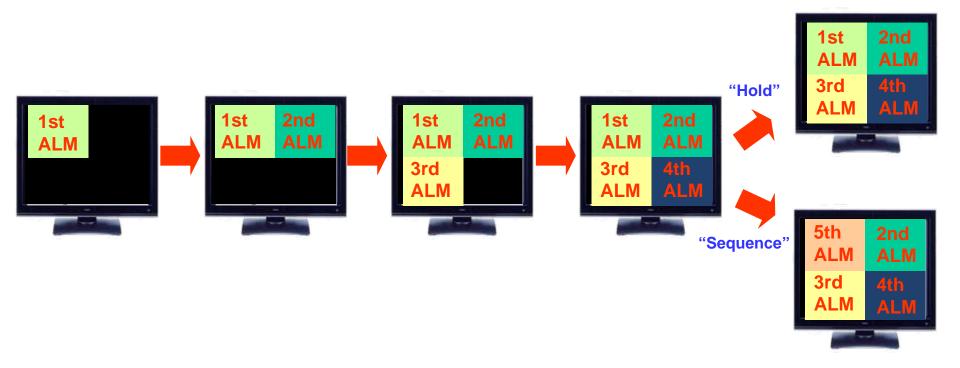
Alarm display mode



2 types of Alarm Display mode such as "Hold" and "Sequence" are available.

"Hold": the alarm action with the highest priority for each monitor is displayed and remains until it is acknowledged.

"Sequence": the alarm actions for each monitor are displayed in sequence without requiring acknowledgement.



The number of alarm target display is configurable and no relationship to multi-screen pattern. The multi-screen pattern is fixed when an alarm is triggered.

Easy installation and version management



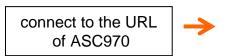
ASM970 is Click Once applications which can provide easy installation and version management.

- -Installation: install and configure ASM970 only in ASC970 server, no need for its in each Client PCs.
- -Version management: manage version of ASM970 only in ASC970 server

update ASM970 automatically from ASC970 server when starting new ASM970

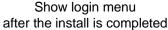


Install for client PC: download ASM970 from ASC970 server only by connecting











Update for client PC: automatically update when you connect the ASC970 server

(1)ASM970 is updated on ASC970 server









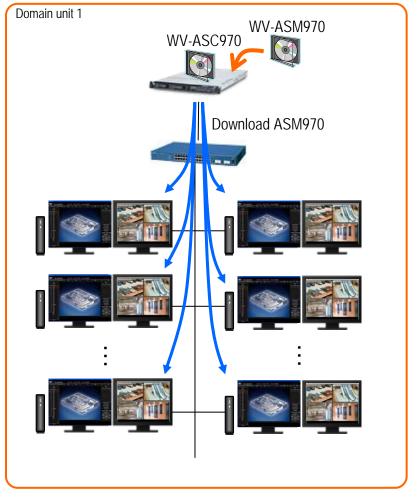


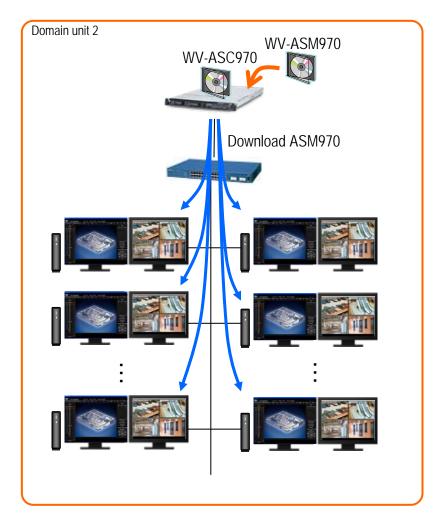
1 license per WV-ASC970 Server Software



The number of ASM970 connected to one ASC970 is no limitation^(*) in a domain if you purchase one ASM970 per one ASC970. Need to purchase 2 pics of ASM970 with ASC970 Redundant system in a domain.

*One ASC970 have total 512 monitors capability which means it can manage total 32 pics of ASM970 with 16 multi-screen.





*In above case, Need to purchase 2 pics of ASM970.

Viewer Software

[Open] button.

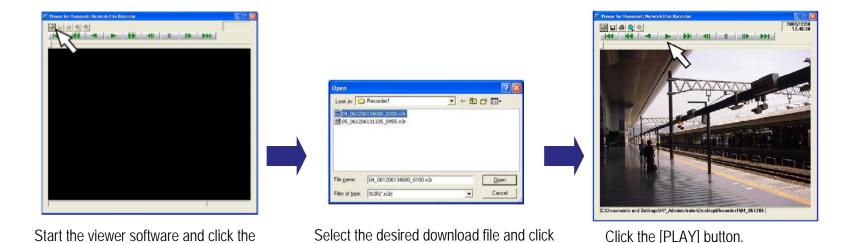


Playback of the downloaded file will start.

Downloaded records can be playback with another PC by using the viewer software.

The viewer software can be provided by ASM970.

*Record file of RT416 can't be downloaded.



There are 3 types of viewer software depending on the recorder and record file.

the [Open] button.

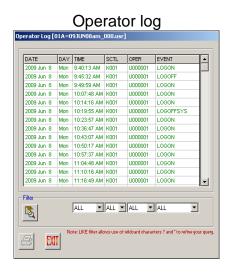
n3r file (ND200, ND300, ND400): NDviewer.exe

n3r file (HD616/716): HDviewer.exe

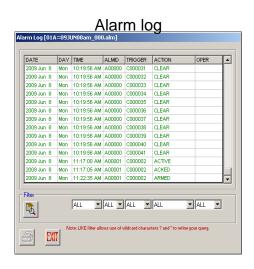
h3r file (HD316A): Viewer.exe

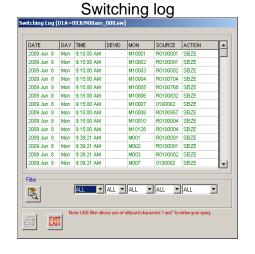
ASM970 doesn't have any Logs.

Admin Console of ASC970 can get Logs such as Operator log, Alarm log, Video loss log and Switching log from ASC970 server.



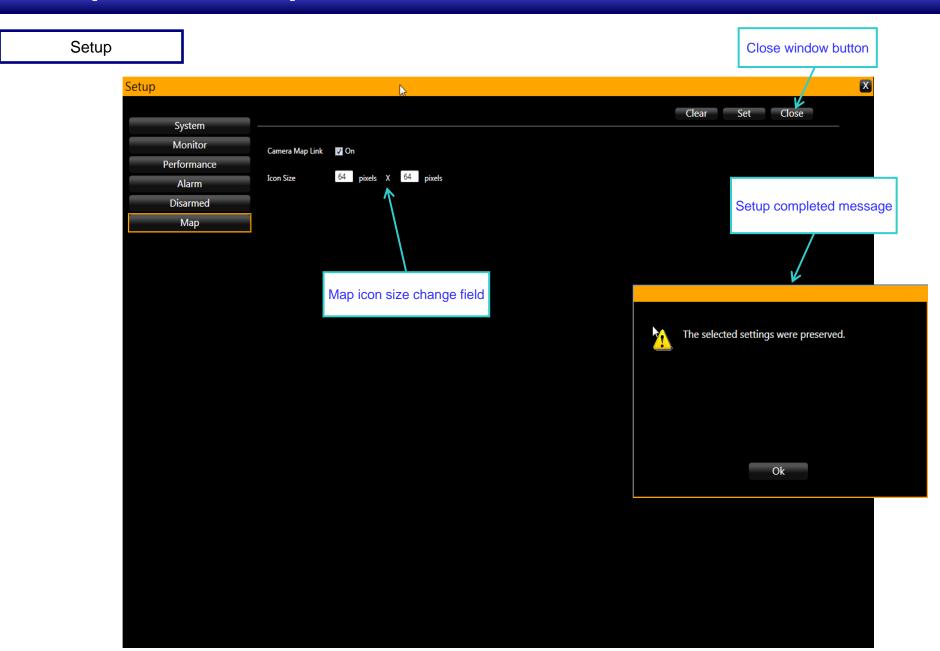






Setup window improvement (ASM970 V2)





Specification



Recorder registration	Refer to ASC970 specification. In Hybrid and IP system, up to 64 recorders can be registered on one ASC970.		
Camera registration	Refer to ASC970 specification. In IP system, up to 1023 cameras can be registered on one ASC970.		
Monitor registration	Refer to ASC970 specification. In Hybrid and IP system, up to 1024 monitors can be registered on one ASC970.		
User registration	Refer to ASC970 specification. Up to 512 users can be registered on one ASC970.		
User level	Refer to ASC970 specification flexibly configurable		
Group Sequence programs	Refer to ASC970 specification Up to 128 sequences (Up to 64 steps and 32 monitors can be registered for a sequence)		
Tour Sequence programs	Refer to ASC970 specification Up to 128 sequences (Up to 64 steps can be registered for a sequence)		
Map registration	Up to 100 maps (Up to 64 cameras can be assigned on a map, up to 20 registered maps can be used) (The file size shall be less than 10 MB Available file type is JPEG and BMP)		
Number of the Operator logs that can be stored	Refer to ASC970 specification Up to 7days (default)		
Number of the Alarm logs that can be stored	Refer to ASC970 specification Up to 7days (default)		
Number of the Video loss logs that can be stored	Refer to ASC970 specification Up to 7days (default)		
Number of the Switching logs that can be stored	Refer to ASC970 specification Up to 7days (default)		
Number of search results that can be displayed	Up to 3000 search results		

ASM970 PC Requirements



It is recommended to install this software on a PC that meets the following system requirements.

Items	Requirements			
OS	Microsoft® Windows® XP Professional SP3 (32-bit)			
	Microsoft® Windows Vista® Business SP2 (32-bit)			
	Microsoft® Windows Vista® Business SP2 (64-bit)			
	Microsoft® Windows® 7 Professional (32-bit)			
	Microsoft® Windows® 7 Professional (64-bit)			
OS language	English, Chinese (Simplified Chinese)			
Computer	IBM PC/AT Compatible			
CPU Intel® Core 2 Duo 2.66 GHz or faster				
	Intel® CoreTM 2 Quad Q9650 or faster (When operating H.264 images)			
	Intel® CoreTM i7-920 or faster (When operating H.264 images)			
Memory	1 GB or more			
	3 GB or more (When operating H.264 images)			
Video memory	VRAM 128 MB or more (64 MB minimum), compatible with DirectX®9.0c			
CD-ROM drive	Necessary to install this software			
Monitor	1280 x 1024 pixels or higher			
	24-bit True color or better (Full color recommended)			
Network Interface	100BASE-TX/1000BASE-T			
Web browser	Microsoft® Internet Explorer® 6.0 SP3			
	Microsoft® Internet Explorer® 7.0 SP1			
	Microsoft® Internet Explorer® 8.0			

	WV-ASM100/100L V6	WV-ASM970	
Functions Features			
Combination with WV-ASC970	NO	YES (specialized WV-ASC970)	
Supported Devices	All i-Pro cameras / encoders DVR(*HD316A, RT416) NWDR(ND200/300/400) *Not support HD316	All i-Pro cameras / encoders DVR(HD316/316A, RT416, HD616/716)* NWDR(ND200/300/400) *need to get image via encoder	
Function	Camera / Recorder operation Video switching MAP CU950 controller (only ASM100) Camera / Recorder operation Video switching MAP CU950 controller		
Multi screen	Total 20 (Ex.) Live monitor: 16 + Operation: 4	16 (JPEG/MPEG4)	
Compression	JPEG / MPEG4 / H.264	JPEG / MPEG4 / H.264	
Multi Monitor Support	Up to 3 monitors (Map/Live/Operation) * Only ASM100 supports multi monitors. ASM100L doesn't support it	Need 2 monitors (Operation & Map / Monitoring)	
NWDR support	YES	YES	
AVMD support (Video Analytics)	YES * Up to 4 screens	YES	

Function features



	Functions Features	ASM100	ASM970 Ver1 (Mar/2010)	ASM970 Ver2 (Sep/2010)
·	nera) : NF284,NS202,NW484,NS950,NW960,NT304/314, 2,NP304,NP502,NW502, SP30x, SF33x	YES	YES	YES (Support new models)
	back) : ND400,HD316A*,RT416*,HD616*,HD716* age via encoder	YES	YES	YES
Compression : JPEG/MPEG-4/H.264		YES	YES	YES
Multi display		3	2	2
CU Operation *Pan/Tilt/Zoom/Iris only		YES	YES	YES
Audio		YES	NO	NO
AVMD Frame and TraceLine(NT314)		YES	NO	YES *one screen
Multi Screen	display pattern	1/4/9/16	1/4/7/9/10/13/16	1/4/7/9/10/13/16
	Playback	YES	NO *One screen only	YES
Camera control	Pan, Tilt, Zoom, Focus, Iris, Preset, Auto mode, B/W	YES	YES	YES
EL-Zoom of live	and playback on ActiveX	YES	NO	YES
Мар	Indicate a camera to a monitor, Alarm icon	YES	YES	YES
Playback	Play, Reverse, Pause, Stop, FF, REW, Next-image, Prev-image, Go-To-Date, Go-To-Last, Rec-Start, Rec-Stop *In RT416, Reverse, FF or REW control in pause state are not available and [Go-To-Last] plays the top of the latest video like no other movement.	YES	YES	YES
	Time zone (Play, Search, Download)	NO *Local only	NO *Local only	NO *Local only
Search/Downl oad	event search, playback on search list	YES	YES	YES
	timeline	NO	NO	YES
	vmd search *HD316,HD600,HD700	YES	NO	YES
Alarm Handling	monitoring, popup, acknowledge, reset	YES	YES	YES
Others	Snapshot	YES	NO	NO
	File download (video, sound) *except RT416	YES	YES	YES
	64bit OS	YES	YES	YES
	Display size	1024x768 or more	1280x1024 or more	1280x1024 or more