

Your Hybrid, Open-Platform, Easy-To-Operate Network Surveillance Server

NSR-1200/1100/1050H Designed for Security

SONY



Introducing the NSR-1000 Series of hybrid recorders

Why choose the NSR-1000 Series?

The demand for surveillance systems is growing, and the adoption of IP technology is ever increasing. Sony recognised this trend early on, and has been focused on developing products and solutions aligned with this trend. This year, Sony is pleased to announce the introduction of the NSR Series of recorders.

The key qualities of the NSR-1000 Series are a “hybrid” capability – these recording servers support both legacy analogue and current IP cameras – an open-platform design, and ease of setup and operation. With the NSR-1000 Series, you can open the door to a world of new possibilities in video surveillance.



Front Panel
Cover Open

Comparison	NSR-1200	NSR-1100	NSR-1050H
Internal Storage	2TB	1TB	0.5TB
Max. Number of IP/Analogue Cameras Supported*1	64 Units	32 Units	20 Units
Number of Analogue Camera Connections	Option (16 Inputs)	Option (16 Inputs)	Standard (16 Inputs)
Frame Rate for Recording*2	480fps	240fps	120fps
HDMI Outputs	x2	x2	x2
RAID	RAID 5	RAID 0	-

*1 Total of IP and analogue cameras.

*2 Without local displays.

Optional Products



NSRE-S200
Optional HDD Expansion Unit



NSBK-A16
Optional Analogue Encoding Kit



Real Panel
NSR-1050H

Hybrid System

Easy to migrate from analogue to IP camera systems

Up to 16 analogue cameras can be connected to the NSR-1000 Series. You can simply add network cameras, including megapixel cameras, while maintaining your analogue cameras.

Easy to migrate to large-screen HDTV display systems

The NSR-1000 Series has two analogue RGB and two HDMI monitor output connectors on the rear panel. You can use two out of the four outputs simultaneously in any combination to meet your system requirements.

Easy to migrate into HD camera systems

To answer the growing demands for HD (High Definition) network cameras, the NSR-1000 Series will offer this capability in the near future.

Open Platform

Free to select from a wide range of cameras

The NSR-1000 Series can be used not only with Sony network cameras but also with other major brand network cameras.

Quick Setup & Easy Operation

Quick setup

With the set-up wizard, you can set up the system in a simple manner. With Sony's IP cameras, the NSR-1000 Series detects the cameras instantly, which drastically reduces the time required for the system installation.



Intuitive graphical
user interface



SNT-V704
Optional Video Network Station



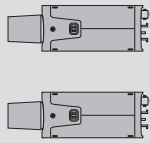
NSR-RM1
Optional Rack Mount Kit



System Configuration Examples

Standalone Configuration

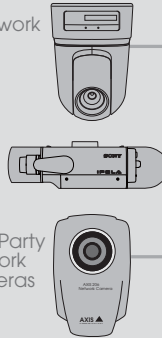
Analogue Cameras (Max. 16 Units)



Sony's Network Cameras



Third-Party Network Cameras

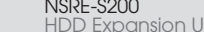


*1

NSR-1000 Series

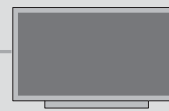


NSRE-S200
HDD Expansion Unit
(Max. 7 Units)

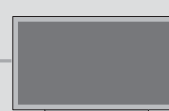


Network

HDMI/
RGB Monitor*2



HDMI/
RGB Monitor*2



*1 The NSR-1050H can be directly connected with 16 analogue cameras as standard. The NSR-1100/1200 requires an optional NSBK-A16 Analogue Encoding Kit.

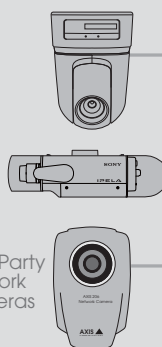
*2 The NSR-1000 Series has two analogue RGB and two HDMI monitor output connectors on the rear panel. You can use two out of the four outputs simultaneously in any combination.

Client-Server Configuration

Sony's Network Cameras



Third-Party Network Cameras



Analogue Cameras



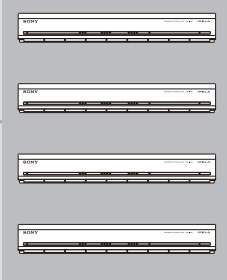
SNT-V704



Network

Machine Room

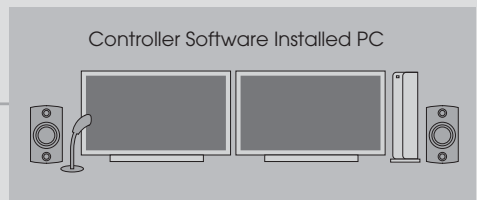
NSR-1000 Series



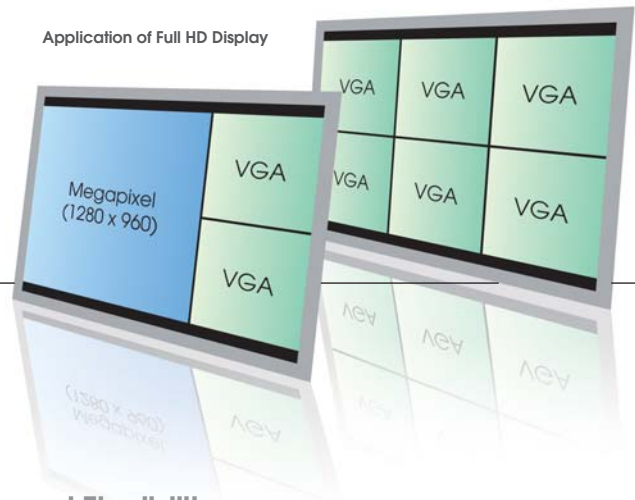
Network

Monitoring Room

Controller Software Installed PC



Application of Full HD Display



Features

High Picture Quality

HDMI outputs for “Full HD” displays

You can view and monitor video via the HDMI interface with Full HD (1920 x 1080) displays. If you use megapixel cameras, you can view the full resolution image with such equipment. What’s more, you can set a 6-screen display layout and still view VGA video in full resolution.

With Sony IP Cameras

MPEG4/JPEG dual stream

Connected with the SNC-RX Series, SNC-DS10, SNC-DM110, and later models from Sony, the NSR-1000 can accept both JPEG and MPEG-4 from the cameras at the same time.

DEPA

Both the NSR & IMZ Series incorporate DEPA – Sony’s Distributed Enhanced Processing Architecture. Used in conjunction with DEPA-enabled network cameras from Sony, DEPA helps identify critical events more easily, and provides a streamlined workflow for your video security operations.

Expandability and Flexibility

Additional storage of 2TB x 7

The NSR-1200/1100/1050H has an internal storage of up to 2TB/1TB/0.5TB respectively. Each can be connected with up to seven units of the NSRE-S200 (2TB Hard Disk Storage Device). With the NSR-1200 in RAID 5 configuration and the seven units of the NSRE-S200, the maximum recording capacity will be 11TB (approx.) in total.

Remote viewing by controller software

If you install the bundled Controller Software to a personal computer in a remote location, you can supervise NSR-1000 Series recording servers simultaneously in various locations, with flexibility in selecting and viewing live and recorded images.

IMZ-NS100 Series

In the same series of software solution, Sony also provides the IMZ-NS101/NS104/NS109/NS116/NS132 Intelligent Monitoring Software. This can be installed on your own Microsoft® Windows® server to monitor and control 1/4/9/16/32 network cameras, respectively. It features the same functionality and graphical user interface as the NSR-1000 Series. The supplied Controller Software can be used for the multiple NSR-1000 Series and IMZ-NS100 Series.

Other Features

- Playback while monitoring live images
- Camera PTZ control
- Light funnel control
- Multiple hot-spot monitoring
- Manual, scheduled, alarm/event, and pre-alarm recording
- Privacy zone masking
- Audio recording, monitoring, and playback
- File export to CD-R, DVD-R, and USB flash memory

Specifications

Video/Recording	NSR-1200	NSR-1100	NSR-1050H
Number of Cameras Supported (IP/Analogue Total)	Max. 64	Max. 32	Max. 20
Analogue Camera Input	Option (NSBK-A16)		16ch Video Input/ 4ch Audio Input (Supplied Cable)
Video Compression (IP-Camera)	MPEG-4 or JPEG		
Video Compression (Analogue-Camera)	-		MPEG-4
Maximum Recording Rate	480fps	240fps	120fps
Hard Disk Drives (Physical Capacity)	2000GB (500GB x4)	1000GB (500GB x2)	500GB (500GB x1)
Hard Disk Drives (RAID Level)	RAID 5	RAID 0	-
Hard Disk Drives (Recording Capacity)	1366GB	886GB	443GB
Expansion Storage	Supports NSRE-S200 (2000GB) (Max. 7 Units)		
Video Interface			
Monitor Out #1 (HDMI or Analogue)	HDMI Output	HDMI (A-type) x1	
	Analogue RGB Output	D-sub 15pin x1 (Front) or D-sub 15pin x1 (Rear) *2	
Monitor Out #2 (HDMI or Analogue)	HDMI Output	HDMI (A-type) x1	
	Analogue RGB Output	D-sub 15pin x1	
Audio Interface			
Line Out	RCA-pin, L/R x1 stereo pair		
Sensor/Alarm			
Sensor In	8-channel photo-coupler (DC3.3-24V)		
Alarm Out	8-channel relay (Max. 24V 1A)		
Other Interfaces			
Ethernet *1	1000Base-T/100Base-TX/10Base-T x4 (Auto switching)		
USB 2.0	x3 (Front), x3 (Rear)		
Serial Interface (for UPS)	RS-232C x1		
Serial Interface (for Analogue Camera Control)	RS-232C x1, RS-422/485 x1 (Either one to be selected)		
SAS 1.1 (Serial Attached SCSI)	SFF-8088 type x1		
General			
Dimensions (W x H x D)	430mm x 87mm x 417mm (17 x 3 1/2 x 16 1/2 inches) (exclusive projections)		
Mass	Approx. 13.5kg (29lb 12oz)	Approx. 12kg (26lb 7oz)	Approx. 11.5kg (25lb 6oz)
Power Requirements	100V to 127V/200V to 240V AC (50/60Hz)		
Power Consumption	265W (typical)	185W (typical)	175W (typical)
Operating Temperature	5 to 40°C (41 to 104°F)		
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C, non-condensing)		
Supplied Accessories	Analogue Camera Cable x1 (NSR-1050H Only), Front panel key x2, Rubber Feet x4, Recovery CD x1, Manual/Tool/Source Codes CD x1		

*1 Port #1 to #3 can be used as ordinary LAN ports. Port #4 cannot be used alone. Channel Bond is supported by #3 and #4.
 *2 The D-sub 15-pin (Front) and D-sub 15-pin (Rear) Connectors cannot be used simultaneously.

Storage Capacity	NSR-1200
Hard Disk Drives (Physical Capacity)	2000GB (500GB x4)
Hard Disk Drives (RAID Level)	RAID 5
Hard Disk Drives (Recording Capacity)	1396GB
Interfaces	
SAS (Serial Attached SCSI) 1.1 Input	SFF-8088 type x1
SAS (Serial Attached SCSI) 1.1 Output	SFF-8088 type x2
Ethernet (For Maintenance)	100Base-TX/10Base-T auto x1
Serial Interface (For Maintenance)	RS-232C x1
General	
Dimensions (W x H x D)	430mm x 87mm x 417mm (17 x 3 1/2 x 16 1/2 inches) (exclusive projections)
Mass	Approx. 12kg (26lb 7oz)
Power Requirements	100V to 127V/200V to 240V, AC (50/60Hz)
Power Consumption	80W (typical)
Operating Temperature	5 to 40°C (41 to 104°F)
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C non-condensing)
Serial Interface (For Maintenance)	RS-232C x1
Supplied Accessories	
	Front panel key x2, Rubber foot x4, CD x1

Encoding Card	NSBK-A16
Number of Analogue Cameras Supported	Max. 16
Number of Audio Inputs	Max. 4 inputs
Video Compression	MPEG-4
Input Video Format	NTSC or PAL
Mass	Approx. 72g (2.5oz)
Input Connector	DVI-I Connector x1
Host Interface	PCI
Analogue Camera Cable (Supplied)	
Input Connector (Video)	BNC x16
Input Connector (Audio)	RCA x4
Output Connector	DVI-I Connector x1
Mass	Approx. 235g (8.3oz)
Length	300mm (11 7/8 inches)
General	
Operating Temperature	5 to 40°C (41 to 104°F)
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C, non-condensing)
Supplied Accessories	
	Analogue Camera Cable x1, CD x1

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