

NSR-500

NSR-500 Network Surveillance Recorder with 16-channel Full HD image capture, up to 12TB of storage and RAID implementation



Overview

The NSR-500 network surveillance recorder supports up to 16 network cameras, which may be extended to 24 with the optional NSBK-CL05. It can record more than 300 hours of high quality Full HD images onto its maximum 12TB of hard disk drives, which are configured with high redundancy through a variety of RAID implementations.

The NSR-500 is extremely straightforward to install and setup, as it detects network cameras and defines the parameters of each through a dedicated configuration wizard. You can start monitoring instantly, as the images are automatically assigned to a layout menu.

Features

16-channel (optionally 24 with NSBK-CL05) network video capture
Grow your system's connection capability. The NSR-500 connects to up to 16 network cameras, which you can extend to 24 with the optional NSBK-CL05, as your requirements change.

Long duration high quality recording

Get the storage that you need. The NSR-500 features a maximum of 12TB of hard disk drive capacity, which

means that you can record more than 300 hours of high quality Full HD images compressed at 4Mbps with a frame rate of 30 fps.

Reliability through RAID technology

Have confidence in your evidence. The NSR-500's hard disk storage units are configured with high redundancy and hot-swappable RAID technology, to protect your vital video information from disk failure 24 hours a day. You can choose from RAID 1 (1+0), RAID 5 or RAID 5 + Hot Spare.

Plug and Play

No need for complex installation procedures. The NSR-500 automatically detects cameras on the network, and a dedicated setup wizard defines the parameters for each in a straightforward step-by-step manner.

Easy operation

Start monitoring instantly. Images from the cameras are assigned automatically to a monitor layout menu, so that you can be safer sooner.

Three Industry-Standard Codecs for maximum compatibility

The NSR-500 can use H.264, MPEG-4 and JPEG for high quality recording and maximum compatibility with other equipment.

Backward System Compatibility

Enhance your system as your needs grow. The NSR-500 can be used with Sony's existing recording systems, such as the NSR-1000 series and RealShot Manager Advanced by means of the client, whose software is downloadable from the NSR-500.

Specifications

Recording

Number of cameras supported	16 (Max. 24ch with NSBK-CL05)
Total Recording Frame Rate	Max. 480 fps (Max. 64 Mbps)
Maximum Recording Frame Rate/Camera	Max. 30 fps / camera
Video Recording Format (IP Camera)	H.264, MPEG-4, JPEG
Audio Recording Format (IP Camera)	G.711, G.726
Number of Analog Cameras	Option: NSBK-EB05
Total Frame Rate (Analog Camera)	Option: NSBK-EB05
Maximum Frame Rate/Camera (Analog Camera)	Option: NSBK-EB05
Resolution (Analog Camera)	Option: NSBK-EB05
Video Compression Format (Analog Camera)	Option: NSBK-EB05
Audio Compression Format (Analog Camera)	Option: NSBK-EB05

Number of Hard Disk Drives	NSR-500:00: None NSR-500:04: 4 disks
Hard Disk Drive (Physical Capacity)	Expandable up to 12 TB (2 TB x 6) NSR-500:00: None NSR-500:04: 4 TB (1 TB x 4)
Hard Disk Drive (Interface)	SATA
Hard Disk Drive (RAID Level)	RAID 0, RAID 1 RAID 1+0, RAID 5, RAID 5 with hot spare
Hard Disk Drive (Recording Capacity)	NSR-500:00: None NSR-500:04: (RAID 5): Approx. 2.6 TB
Expansion Storage	iSCSI storage (Max. 16 TB)
Optical Disc Drive	No

Video Output

Monitor Output 1 (Interface)	Analogue RGB (D-sub 15pin)x1)
Monitor Output 1 (Display Resolution)	1,920 x 1,200 (Analog RGB only), 1,920 x 1,080, 1,360 x 768, 1,600 x 1,200, 1,280 x 1,024, 1,024 x 768
Display Frame Rate (Live)	Varies by the system configuration
Display Frame Rate (Playback)	Varies by the system configuration

Interface

Network Port	1000BASE-T, 100BASE-TX, 10BASE-T (RJ-45) (x2)
Serial Interface (for UPS)	RS-232C: D-sub 9-pin (x1)
Serial interface (for Analog PTZ Control)	RS-232C: D-sub 9-pin (x1), RS-422/485 (x1)
USB	USB 2.0 (x4)
Sensor Input	Compatible with DC 3.3 V to 24 V photo coupler input (x8) *1
Alarm Output	Max. 24 V DC/1 A, mechanical relay output (x8) *1
Video Output	Analog RGB (D-sub 15-pin) (x1), HDMI 1.2 (Type A) (x1) *2
Audio Input	Microphone input (x1) *3
Audio Line Output	Stereo mini jack (x1)

General

Power Requirements	100 V to 127 V AC, 200 V to 240 V (50/60 Hz)
Power Consumption	Max. 250 W (100V to 240 V/3.5 A to 1.5 A)
Operating	5°C to 40°C

Temperature	41°F to 104°F
Storage Temperature	-20°C to +60°C -4°F to +140°F
Operating Humidity	20% to 80% (no condensation)
Storage Humidity	20% to 90% (no condensation)
Dimensions (W x H x D) *4	Approx. 440 x 89 x 392 mm (2U) (excluding protrusions) Approx. 17 3/8 x 3 1/2 x 15 1/2 (2U) inches (excluding protrusions)
Mass	Approx. 9.4 kg (NSR-500:00) Approx. 20 lb 12 oz (NSR-500:00)
Supplied Accessories	Installation manual (1) CD-ROM (1) Flyer (WEEE) (1) Flyer (EU battery) (1) Warranty booklet (1) AC power code (1) (J and CN models only) Front panel key (2) Rubber PAD (4) HDD screw (24) (NSR-500:00 only) Setup Disc (1) (NSR-500:00 only) Warranty Sheet Assy (J model only)

Notes

*1	Insulated from the main unit.
*2	Clone mode
*3	For future expansion
*4	The values for dimensions are approximate

Gallery

