

For the Japanese Market Only:

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JVC Releases VR-N900 Network Video Recorder for Professional Security Applications

*Enables PC-Less Recording, Viewing and Searching of Surveillance Images from IP
Cameras; First Commercial Solution Developed Under Technology Partnership with
Milestone Systems*

Victor Company of Japan, Limited (JVC) today announced the launch of the VR-N900 Network Video Recorder (NVR), aimed at users of image surveillance security solutions. The innovative standalone (PC-less) system enables recording, viewing and searching of images from IP cameras, which are anticipated to be widely deployed moving forward. The VR-N900 was developed in technical collaboration with Denmark-based Milestone System A/S, the No. 1 global market share leader for IP security management software*, for excellent ease of use and solid reliability. JVC will exhibit the VR-N900 at the upcoming Security Show 2007, which is scheduled to take place from Tuesday, March 6 through Friday, March 9 at the Tokyo Big Sight exhibition hall. *According to data from IMS Research.

Product Name	Model Name	MSRP (Tax Included)	Release Date
Network Video Recorder	VR-N900	Open	March 15, 2007



VR-N900 Network Video Recorder



Screenshot of VR-N900 Viewer

Main Features

1. PC-less reliability and excellent ease of use

Enables operation of main features such as recording, viewing and searching of IP camera images without a PC. Delivers the same ease of use as existing time-lapse video and hard disk recorder systems, with the reliability of a PC-less system.

2. Preinstalled viewer software utilizing technologies from Milestone Systems

Preinstalled with VR-N900 View software developed in technical collaboration with Milestone Systems. Offers a superior GUI for excellent ease of use.

3. Hybrid design supports connectivity for both IP cameras and analog cameras

Supports connections for up to nine cameras. Also supports mixed installations of network and analog cameras (automatic detection of JVC-brand IP camera) with channels for up to four analog cameras. Other features include remote pan/tilt/zoom operation when used in conjunction with JVC-brand combination cameras for high-speed motion capture (IP or analog).

Other Features

1. Simultaneous recording and transmission to client PCs

Dual LAN ports, one for IP camera input and one for image transmission. High quality 30 ips (images per second) recording at VGA resolution, supporting simultaneous transmission to feed up to 10 client PCs.

2. Motion JPEG recording

Utilizes Motion JPEG recording, which is also suitable for intermittent recording of surveillance images. Delivers high quality 120 ips recording at 640x480 VGA resolution, and 60 ips playback at VGA resolution. Connects directly to a large LCD display or other monitor without using a PC.

3. Large built-in 500GB hard disk drive capacity

Standard built-in 500GB hard disk drive capacity using two 250GB drives. Supports expansion hard disk drive units available in three capacities (500GB, 1TB or 2TB). Expandable up to 4.5TB by combining the built-in 500GB capacity with two 2TB expansion hard disk drive units.

Recording Times (Reference) Unit: Hour

With built-in 500GB, nine cameras, no audio

Picture size	Data / Image (KB)	30 frames/sec.	15 frames/sec.	10 frames/sec.	5 frames/sec.	3 frames/sec.	1 frames/sec.	0.5 frames/sec.	0.2 frames/sec.
VGA	32.0	-	-	39	79	132	403	830	2111
	24.0	-	-	54	107	179	545	1115	2823
	16.0	-	-	82	164	274	830	1684	4247
	10.0	-	-	133	267	445	1343	2709	6810
QVGA	27.0	-	-	47	95	158	482	988	2507
	15.0	-	-	88	176	293	887	1798	4532
	8.0	-	-	167	335	559	1684	3393	8519
	5.0	-	-	270	540	901	2709	5443	13645

With 4.5TB hard drive capacity by combining the built-in 500GB capacity with two 2TB expansion hard disk drive units, nine cameras, no audio

Picture size	Data / Image (KB)	30 frames/sec.	15 frames/sec.	10 frames/sec.	5 frames/sec.	3 frames/sec.	1 frames/sec.	0.5 frames/sec.	0.2 frames/sec.
VGA	32.0	-	-	415	829	1382	4151	8327	20853
	24.0	-	-	554	1107	1846	5543	11110	27812
	16.0	-	-	832	1664	2774	8327	16677	41730
	10.0	-	-	1333	2666	4444	13337	26698	66782
QVGA	27.0	-	-	492	984	1640	4925	9873	24719
	15.0	-	-	888	1775	2959	8883	17791	44513
	8.0	-	-	1667	3334	5557	16677	33379	83483
	5.0	-	-	2669	5338	8897	26698	53421	133588

Major Specifications

Number of connections for cameras	Up to nine cameras. Also supports mixed installations of network and analog cameras with channels for up to four analog cameras.
Recording quality	Up to total 120 ips recording at VGA resolution (While all connections are for network cameras.)
Display quality	Up to total 60 ips recording at VGA resolution
Transmission to clients	Up to 10 clients
Transmission capability	Up to total 30 ips recording at VGA resolution
Signal format	NTSC
Compression format	Motion-JPEG
Build-in hard disk drive capacity	Standard built-in 500GB hard disk drive capacity using two 250GB drives. Supports expansion hard disk drive units available (VR-D2000 / D1000/ D500).
Operation lock	Available
Screen display	Single screen, divided by 4/6/9 screens, etc.
Data export	USB memory (stills, AVI videos)
On-screen display	Camera title, connectivity, error message, alarms
Video search function	Date and time search, alarm search
Playback speed	X 1/2*, x1/5, x1/10, x1/20, x1, x2, x5, x10, x20, frame by frame (± 1 frame)
Simultaneous recording and playback	Available
Blackout resume recording	Available
Timer recording	Available
Alarm recording	Available
Pre-alarm recording	Available
Motion measurement	Available
Video input terminals	RJ45x1 (for network camera), BNCx4 (for analogue cameras)
Video output terminals	D-sub 15pinx1
Audio input terminals	RCA x2
Audio output terminals	RCA x1
Harmonica terminals	Alarm, emergency input, REC output, etc.
RS-485 terminal	Analogue combination camera for control x1
Serial terminals	Equivalent to USB 2.0 (front x 1, rear x 4): USB memory, UPS, expanded hard disk drives
Video transmission terminals	RJ45x1
Power source	AC100V, 50Hz/60Hz
Power consumption	Less than 150W
Temperature	+5 degree Celsius + 40 degree Celsius
Humidity	30% RH - 80% RH (Non-condensing)
Dimensions	W 420mm x H 88mm x D 350mm (not including feet)
Weight	8.3kg
Compatible cameras	Network cameras: VN-C20 / C215 / C215VP / C625 / C655, VN-E4 Analogue combination cameras: TK-S576B/S625/S655, etc.
Provided accessories	Rack mount metal parts, AC cord

*Available only when using a mouse or the Joystick.

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