

JVC®

The Perfect Experience /

DIGITAL VIDEO RECORDERS

VR-609 VR-616



16-ch



9-ch



Versatile, user-friendly digital video recorders with jog/shuttle control and multi-screen real-time display for reliable, high-level surveillance



When Security is critical and you can't afford to invest in anything but the very best video surveillance equipment. Today that means a sophisticated digital video recorder like the VR-609U or the VR-616U from JVC. Designed especially for sensitive industrial and commercial surveillance systems, both offer high-resolution digital recording that's ideal for factories, office buildings, medical centers, airports, highways, banks — anywhere, in fact, where high-quality images are required. User-friendly features such as jog/shuttle search and PC-based GUI operation are supported by a host of critical security functions like alarm-linked e-mail alerts and multi-screen real-time displays in either 9 or 16-channel versions. Now you'll have the perspective you need to see exactly what's happening when it's happening. Plus, with superb digital picture quality, you'll find it much easier to analyze and review any incident or accident. PC-based remote monitoring and control capability gives you much greater flexibility and a full complement of back up and specialized functions, together with search features, to ensure reliability and maximize your security.

User-friendly operation

■ Convenient manual search with Jog & Shuttle

Video clips can be reviewed one frame at a time in the Play mode with the Jog control or at high speed with the Shuttle control. The Jog dial is also used for item selection in menu setting.

■ Mail notification

You can set up your system to automatically send e-mail alerts to yourself and any other specified users whenever an event occurs.

■ Various search functions

A variety of search parameters such as date, time, camera and ALARM can be recorded, giving you maximum flexibility when recordings are reviewed. You can even search while recording is in progress.

■ Image sequence function

Recorded images are displayed 1 field at a time, ensuring that you'll be able to locate and analyze content to find the exact recorded image you need to see.

■ PC viewing software included

Versatile, easy-to-use PC software is provided to enable remote monitoring and operation of both the digital video recorder and cameras.

■ Built-in 240GB Hard Disk

With a built-in 240GB hard disk drive, these recorders are ready to handle even the most extensive and demanding surveillance requirements. But if you need even more recording space, an additional expansion bay is provided so you can add another hard disk if necessary.

■ IR remote control unit

An infrared remote control unit is provided for operation of both the digital video recorders and cameras. Settings such as brightness can be specified for each input channel.

High-quality digital recording

■ Wavelet compression

Advanced wavelet compression protocols minimize loss of video quality while offering a higher compression rate (1/4 of JPEG video rate) for more efficient use of disk space. As a result, high-resolution (720x240) digital recording and playback is possible with less noticeable block noise.

■ High-definition recording of 60 ips (NTSC)/50 ips (PAL)

With 60/50 ips recording you get twice as much information as you would from 30/25 ips machines.

■ Digital audio recording and playback

Digital audio compression enables you to record channel 1 audio signals for extended periods when cameras equipped with microphones are used.

■ Spot monitor output

In addition to the standard monitor output, a spot monitor output is provided to output the image from a selected camera.

Versatility

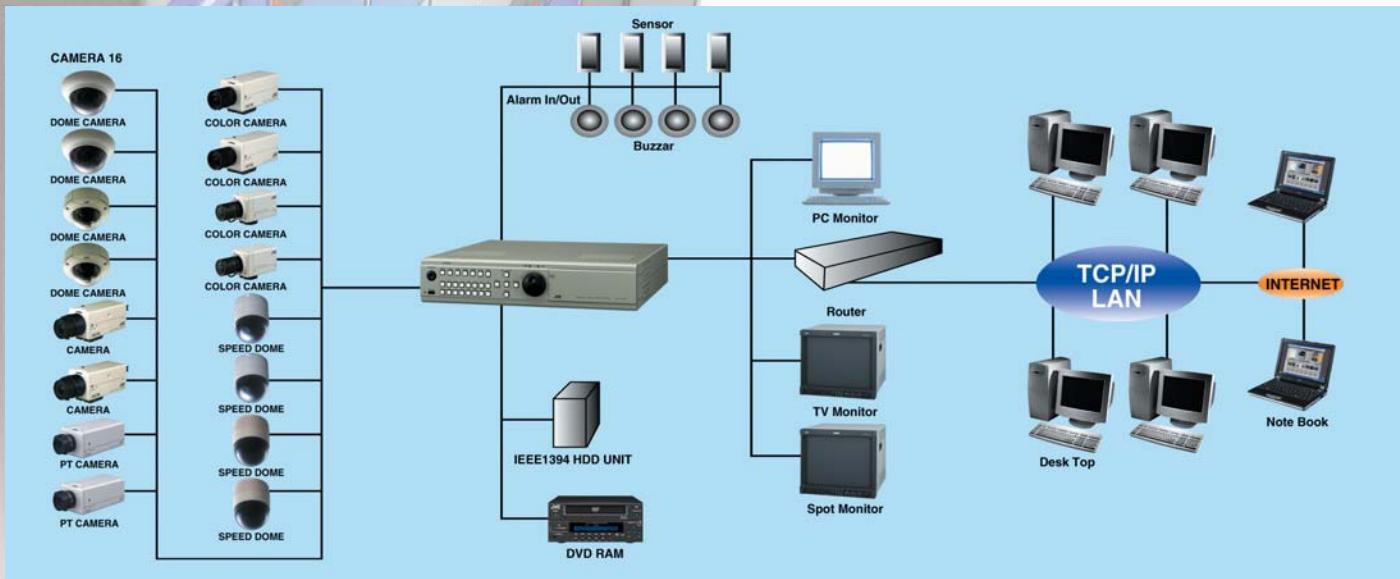
■ 16-ch (VR-616)/9-ch (VR-609) real-time monitoring with multi-screen display

For a more complete view of any given situation, the monitor screen can be divided into multiple windows. Five different variations are possible and live images can be displayed simultaneously with the PIP playback window.

■ Covert channel function

Ideal for critically sensitive applications, the covert channel function allows selection of channels as covert, allowing only the system administrator to monitor or play back video from those cameras.

System Configuration



■ Triplex working enables live, recording and playback all at the same time

The VR-616 can record up to 16 synchronous video signals. Recording, live monitoring and playback can be performed simultaneously. Images stored on any channel can be played back during recording and monitoring.

■ Pre/post-alarm and alarm recording function

In addition to the post-alarm start of recording when an alarm is detected, a pre-alarm function is also provided to start recording before the alarm signal is received.

System flexibility

■ Remote surveillance via network (built-in web server/bundled software)

Built-in network compatibility means that cameras can be operated remotely and surveillance images can be viewed from any location via a web browser — either over a dedicated network connection or via the Internet. No special software is required — the system is fully compatible with any operating system and hardware that supports Internet browsing, including PCs, PDAs, and Macs.

Menu



User define screen menu



System log menu



Camera setup menu



Recording setup menu

■ Pan/tilt dome & speed dome camera control

No special equipment is required to control the Speed Dome camera. It supports RS-485 protocols and is assigned an ID for parallel connection. A user-friendly GUI interface makes it easy to install and the Jog Shuttle can be used for control.

■ Variety of interfaces

Standard interfaces include an Ethernet connector for LAN and Internet hookup, IEEE 1394 for transfer of moving pictures, and USB for still image capture. In addition, an RS-485 connector is provided for camera control and a VGA OUT for image display on a computer monitor or large-screen PDP or LCD display. As a basic function, 2 BNC connectors are available for main and spot monitoring.

Reliability

■ Automatic check and recovery function

Designed for continuous, fault-free operation, these recorders feature built-in, self-monitoring functions that keep track of the status of all system components, automatically restarting and recovering the system if a failure occurs.

■ Various image backup functions

Massive amounts of video can be stored in a separate, removable HDD or recorded on a compatible CD-RW via IEEE 1394 connector.

■ Linux-based system with auto diagnostic function

The combination of rugged, highly durable hardware and a stable Linux-based operating system makes this system extremely reliable. An auto diagnostic function provides immediate warnings and troubleshooting advice to enable repairs to be performed quickly and effectively in the event of a system failure.

Others

- Multiple languages (English/French/Spanish)
- Motion detection (area/sensing speed adjustable)
- Digital zoom function
- Timer-recording function

VR-609



Recording Time List

VR-609

Field Rate														
Quality	6F/1S (NTSC ONLY)	5F/1S	4F/1S	3F/1S	2F/1S	1F/1S	1F/2S	1F/3S	1F/4S	1F/5S	1F/6S	1F/8S	1F/9S	
Record Condition HDD : 240 Gbytes, Audio Sampling Rate : NONE														
7	27	33	41	55	83	166	332	499	665	832	998	1331	1497	
6	36	44	55	73	110	221	443	665	887	1109	1331	1775	1997	
5	46	55	69	92	138	277	554	832	1109	1386	1664	2219	2496	
4	55	66	83	110	166	332	665	998	1331	1664	1997	2662	2995	
3	64	77	97	129	194	388	776	1165	1553	1941	2330	3106	3495	
2	73	88	110	147	221	443	887	1331	1775	2219	2662	3550	3994	
1	92	110	138	184	277	554	1109	1664	2219	2773	3328	4438	4993	

(Unit : Hour)

Specifications

Video	Input	16-ch (BNC) NTSC/PAL (VR-616) 9-ch (BNC) NTSC/PAL (VR-609)
Audio	Input	1-ch (Mono PCA/Mic Jack)
Display	Speed	480 fps (VR-616), 270 fps (VR-609)
	Split Screen	1, 4, 6, 8, 9, 16, PIP, SPLIT (VR-616) 1, 4, 6, 8, 9, PIP, SPLIT (VR-609)
Recording	Speed	60 fps (max.), 30 fps/1-ch
	Resolution	720x240 (NTSC) 720x288 (PAL)
	Compression Method	WAVELET
	Image Size	Selectable 7 steps
	Mode	Motion Detection, Sensor, Schedule
Playback	Display	1, 4, 9, 16, 3+4, 2+8, 1+12 (VR-616) 1, 4, 9 (VR-609)
	Search Mode	Date, Time, Channel, Event
Monitor	Output	2-Monitor (BNC) 1-Spot (BNC) 1 VGA 1 S-Video
Control	Sensor Input	16 points (VR-616), 9 points (VR-609)
	Relay Output	4 points
	Pan/Tilt/Zoom	16-ch (VR-616), 9-ch (VR-609)
Network	Transmission Speed	Real-time
	Remote View	Via Web Browser/Bundled software
	Media	TCP/IP
Others	Watch Dog	Self-recover
	O/S	Embedded Linux
	Power Source	AC 120 V, 50/60 Hz (NTSC) AC 115 V/230 V, 50/60 Hz
Built-in Device	HDD	240 GB (external HDD model)
	Removable Rack	1 pcs
	USB (1.0)	2 ports
	IEEE 1394	1 port
	LAN (RJ-45)	10/100M base
Dimensions	(WHD)	432 x 88 x 431 mm (17-1/16" x 3-1/2" x 17-3/4")

VR-616



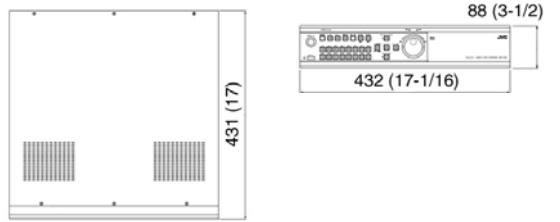
VR-616

Field Rate											
Quality	3F/1S	2F/1S	1F/1S	1F/2S	1F/3S	1F/4S	1F/5S	1F/6S	1F/8S	1F/16S	
Record Condition HDD : 240 Gbytes, Audio Sampling Rate : NONE											
7	31	46	93	187	280	374	468	561	748	1497	
6	41	62	124	249	374	499	624	748	998	1997	
5	52	78	156	312	468	624	780	936	1248	2496	
4	62	93	187	374	561	748	936	1123	1497	2995	
3	72	109	218	436	655	873	1092	1310	1747	3495	
2	83	124	249	499	748	998	1248	1497	1997	3994	
1	104	156	312	624	936	1248	1560	1872	2496	4993	

(Unit : Hour)

Dimensions

VR-616



Unit: mm (inches)

Related Equipment

1/3-inch CCD color video camera with 535 TVL resolution	1/4-inch CCD fixed color dome camera with 535 TVL resolution	1/4-inch CCD fixed color dome camera with vandal-resistant structure
■ TK-C920	■ TK-C205	■ TK-C205VP
1/3-inch CCD color video camera with DSP for Super LoLux shooting	1/3-inch wide dynamic range series camera with 14-bit digital processing	1/3-inch CCD color video camera with Super LoLux shooting
■ TK-C750	■ TK-WD310	■ TK-C1480
1/3-inch CCD DSP color/B&W video camera with auto infrared switching	1/4-inch dome color camera with 27x optical zoom and super LoLux shooting	1/4-inch dome color camera with 25x optical zoom and super LoLux shooting
■ TK-C1460	■ TK-C676	■ TK-C655

Design and specifications subject to change without notice.