

# JVC®

The Perfect Experience /

DIGITAL VIDEO RECORDERS

# VR-609 VR-616



VR-616



VR-609

- High-definition recording of 60 ips (NTSC)/50 ips (PAL)
- 16-ch (VR-616)/9-ch (VR-609) real-time monitoring with multi-screen display
- Various search functions
- Triplex working enables live, recording and playback all at the same time
- Optional system controller
- Built-in 240GB hard disk
- Wavelet compression
- Covert channel function
- Remote surveillance via network
- Digital audio recording/playback
- AVI file conversion
- Image sequence function
- Convenient manual search with Jog & Shuttle
- Mail notification
- Automatic check and recovery function

# User-friendly, high-quality digital recording system with optional system controller — ideal for advanced remote controlled surveillance



When it comes to security, you can't afford to take half measures. That's why you need a video surveillance recorder that's fully equipped to meet the requirements of today's most sensitive industrial and commercial surveillance systems. And that's exactly what you'll get with the VR-609 or the VR-616 from JVC. 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, PC-based GUI operation, and an optional system controller are supported by a host of critical security functions like alarm-linked e-mail alerts, video authentication, and multi-screen real-time displays in either 9 (VR-609) or 16-channel (VR-616) versions. Superb digital picture quality makes event analysis more reliable and more efficient, while the optional system controller and PC-based remote monitoring/control capability give you the flexibility you need to optimize your system to suit your requirements.



GSC-2000J/VR  
System Controller

## User-friendly operation

### ■ Optional system controller

The new system controller provides swift operation for a single DVR and up to 16 JVC cameras via RS-485. A multi-directional joystick enables to control various functions of DVR and JVC cameras, making the system more user-friendly.

### ■ 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.

## Menu



User define screen menu



System log menu

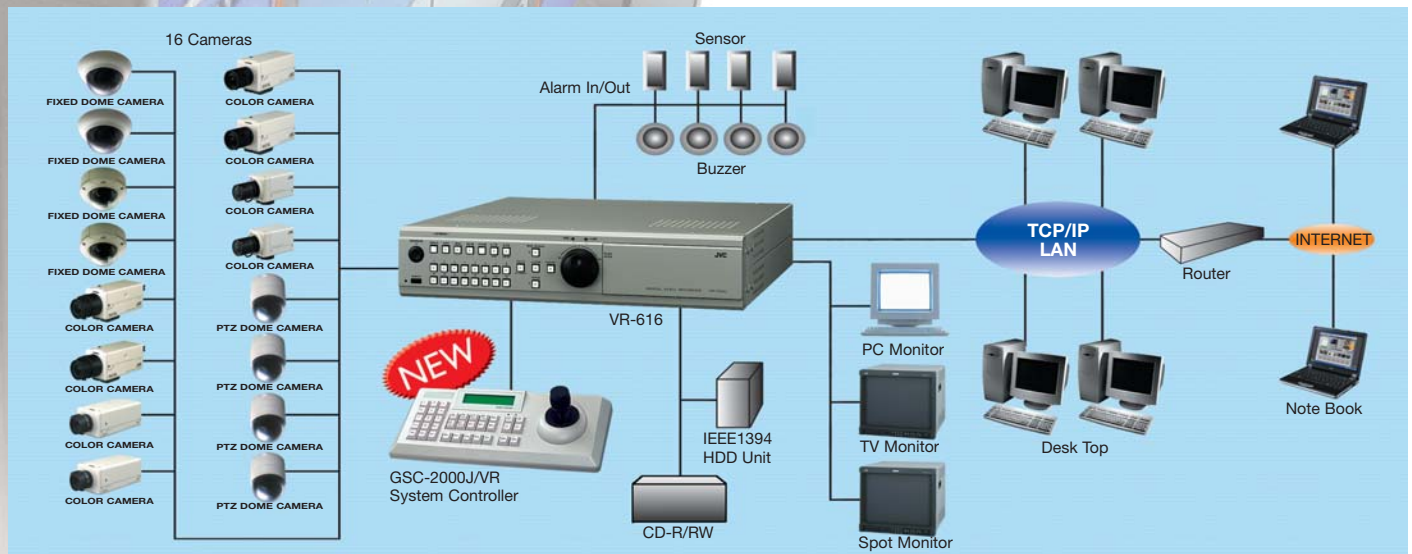


Camera setup menu



Recording setup menu

## System Configuration



### 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.

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

The VR-616 can record up to 16 asynchronous 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.

#### ■ 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.

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 an internal HDD, removable HDD, external HDD or CD-R/RW.

#### ■ Auto diagnostic function

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

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

## VR-609



## VR-616



### Recording Time List

#### VR-609

Quality (NTSC ONLY)	Field Rate													
	6F/1S	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 Recording : OFF														
HQ3	18	22	27	36	55	110	221	332	443	554	665	887	998	
HQ2	18	22	27	36	55	110	221	332	443	554	665	887	998	
HQ1	18	22	27	36	55	110	221	332	443	554	665	887	998	
Q4	18	22	27	36	55	110	221	332	443	554	665	887	998	
Q3	18	22	27	36	55	110	221	332	443	554	665	887	998	
Q2	27	33	41	55	83	166	332	499	665	832	998	1331	1497	
Q1	36	44	55	73	110	221	443	665	887	1109	1331	1775	1997	

(Unit : Hour)

### Specifications

Video	Input	16-ch (BNC) NTSC/PAL (VR-616) 9-ch (BNC) NTSC/PAL (VR-609)
Audio	Input/Output	1-ch (Mono RCA Jack)
Display	Speed	60 fps (NTSC), 50 fps (PAL)
	Split Screen	1, 4, 6, 7, 9, 10, 16, PIP (VR-616) 1, 4, 6, 7, 9, PIP (VR-609)
Recording	Speed	60 fps (max.), 30 fps/1-ch (NTSC) 50 fps (max.), 25 fps/1-ch (PAL)
	Resolution	720x240 (NTSC) 720x288 (PAL)
	Compression Method	WAVELET
	Image Quality	Selectable 7 steps
Playback	Mode	Motion Detection, Sensor, Schedule
	Display	1, 4, 9, 16 (VR-616) 1, 4, 9 (VR-609)
Monitor	Search Mode	Date, Time, Channel, Event
	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 Protocol	Via Web Browser/Bundled software TCP/IP
	Others	Watch Dog: Self-recover O/S: Embedded Linux Power Source: AC 120 V, 50/60 Hz (NTSC) AC 220 V — 240 V, 50/60 Hz (PAL)
Built-in Device	HDD	240 GB
	Removable Rack	1 pcs
	USB (1.0)	2 ports
	IEEE 1394	1 port
	LAN (RJ-45)	10Base-T/100Base-TX
Operating Temperature	5°C-40°C (41°F-104°F)	
Dimensions (W x H x D)	432 x 88 x 431 mm (VR-609/VR-616) (17-1/16" x 3-1/2" x 17-3/4")	
Weight (VR-609/VR-616)	9 kg (19.8 lbs.)	

#### VR-616

Quality	Field Rate										
	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 Recording : OFF											
HQ3	20	31	62	124	187	249	312	374	499	998	
HQ2	20	31	62	124	187	249	312	374	499	998	
HQ1	20	31	62	124	187	249	312	374	499	998	
Q4	20	31	62	124	187	249	312	374	499	998	
Q3	20	31	62	124	187	249	312	374	499	998	
Q2	31	46	93	187	280	374	468	561	748	1497	
Q1	41	62	124	249	374	499	624	748	998	1997	

(Unit : Hour)

### Optional GSC-2000J/VR System Controller

- Operates a single DVR and up to 16 cameras
- User-friendly multi-directional joystick
- Controls various functions of DVR and JVC cameras
- Dimensions (W x H x D): 380 x 97 x 175 mm (15" x 3-7/8" x 6-15/16")



### Related Equipment

1/3" CCD color video camera with 535 TVL resolution



■ TK-C920

1/3" CCD color video camera with DSP for Super LoLux shooting



■ TK-C750

Color video camera with automatic day/night operation



■ TK-C1460

1/4" CCD fixed color dome camera with 535 TVL resolution



■ TK-C205

1/3" wide dynamic range series camera with 14-bit digital processing



■ TK-WD310

Color video camera with automatic day/night operation



■ TK-C1430E

1/4" CCD fixed color dome camera with vandal-resistant structure



■ TK-C205VP

Color video camera with Super LoLux shooting



■ TK-C1480

1/4" CCD color dome camera with Super LoLux shooting



■ TK-C676E/TK-C655E

Design and specifications subject to change without notice.



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