# JVC
## PROFESSIONAL

HIGH-DENSITY VIDEO
CASSETTE RECORDER

# SR-9168U

- Up to **240** hours of high-density recording
- 6-hour realtime recording
- Key lock function
- Aluminum diecast mechanism for long-lasting reliability
- Easy to maintain with solderless drum
- Optional RS-232C interface
- Series recording
- FDP counter display/ hour meter (on screen)
- Alarm/sensor recording
- Timer recording
- Automatic recording check mode
- Field recording/playback
- Auto tape eject function

# *Up to 240 hours* of high-density recording plus 6-hour realtime recording capability in an affordable, durable unit

Video surveillance is a key component of any security installation — whether it's in a bank or department store, a gas station or a convenience store. With JVC's SR-9168U, you can enjoy the peace of mind that comes from knowing that your property is watched over continuously by a reliable high-density recorder designed to withstand the rigors of long-term use. Affordable and easy to use, the SR-9168U offers continuous high-density recording of up to 30 hours of audio/video and up to 240 hours of video on a single tape, capturing a smooth stream of high-quality realtime images ideal for subsequent analysis and detection.  Housed in a rugged diecast aluminum chassis, the SR-9168U also features a convenient tape counter and usage hour meter display together with a full set of powerful security-related functions including alarm/sensor recording, series recording, automatic recording check function, tape end buzzer, key lock function and an optional RS-232C interface for integrated operation with a computer.

## *Recording Flexibility*

### 240-hour high-density recording with a 120-minute tape

Recording times are selectable from 6 hours (EP mode) or 18/30/48/72/96/120/168/240 hours (High-Density mode).  The SR-9168U uses a sophisticated high-density field recording system that makes it possible to record up to 240 hours of realtime surveillance images on a single 120-minute tape.  By using the VCR's EP heads to advance the tape at a finer pitch during high-density recording, the SR-9168U can record about three times as much information over the same period as a conventional timelapse recorder.  This type of recording does result in a slight degradation of picture quality compared to ordinary timelapse recordings, but this is more than made up for by the increased coverage which allows you to analyze the development of a situation in much greater detail.

### Realtime audio recording in 6H, L18H and L30H

Because the tape runs continuously in the 6H, L18H and L30H modes, the SR-9168U is able to record sound as well as images.  In the L18H and L30H modes, picture is recorded intermittently.  By providing both audio and video information, this function significantly enhances your surveillance capabilities.

### Time/date generator

Superimposes the month, date, year, hour, minute and second on the image during recording.  Also allows you to use the menu screen to display the number of alarms, alarm time, and the number of power failures.

| Display indication | Modes | Available recording time (hours) | | | | Recording/ playback interval (sec.) | Audio recording |
|---|---|---|---|---|---|---|---|
| | | T-30 | T-60 | T-90 | T-120 | | |
| 6H | EP | 1.5 | 3 | 4.5 | 6 | - | Possible |
| L18H | 18-hour Timelapse | 6 | 12 | 13.5 | 18 | 0.05 | Possible |
| L30H | 30-hour Timelapse | 7.5 | 15 | 22.5 | 30 | 0.08 | Possible |
| 48H | 48-hour Timelapse | 12 | 24 | 36 | 48 | 0.15 | N/A |
| 72H | 72-hour Timelapse | 18 | 36 | 54 | 72 | 0.22 | N/A |
| 96H | 96-hour Timelapse | 24 | 48 | 72 | 96 | 0.28 | N/A |
| 120H | 120-hour Timelapse | 30 | 60 | 90 | 120 | 0.35 | N/A |
| 168H | 168-hour Timelapse | 42 | 84 | 126 | 168 | 0.48 | N/A |
| 240H | 240-hour Timelapse | 60 | 120 | 180 | 240 | 0.68 | N/A |

### Timer recording function

Two types of timer recording are available: date-based daily (up to 8 programs) or day-of-the-week-based.  Date-based program cancellation for up to 16 days is also possible.  This makes it easy to integrate your surveillance schedule with your business schedule.  An easy-to-use on-screen menu makes programming simple.

# Versatility

## Alarm recording function

When an alarm signal is input in the High-density Record mode, the 6/18/30-hour mode is automatically engaged. Alarm recording time can be selected from 5, 15, 30, 60, 120, or 180 sec., to tape end or it can be set manually.

An index code is automatically recorded when alarm recording starts. With the Index Search function, this allows quick access to alarm recording points.

## Sensor recording

Whenever an alarm signal is input in the Stop mode, the Record mode is automatically engaged, ensuring that you will always have a recording of any incident that occurs.

## Alarm/power loss memory

To help you pinpoint and track critical problem periods, up to 9 alarm inputs or power losses (failures) can be stored in memory. Added security is provided by a highly reliable standby power backup security system for automatic re-start of recording as soon as power is restored after a power failure.

## Still, field advance and reverse play

For a closer review of recordings, the SR-9168U offers still playback and field advance together with reverse play.

## External activation of recording

Recording start/stop can be controlled by transmitting a VCR activation signal from an external source.

# Reliability

## Recording Check function

Pressing the REC CHECK button during recording allows you to check the status of the recording in progress. When activated via the corresponding function menu switch, the built-in head cleaner automatically cleans the heads whenever inferior picture quality is detected during Recording Check. After cleaning, the Recording Check operation is executed again automatically (Auto Recording Check function).

## Key lock function

To prevent accidental or deliberate interference with VCR operation, a key operation can be locked with the front keys.

## Warning function

Error indications are shown on the front panel display. Error warnings include problems with cassette loading, cassette unloading, or the transport system operation mode.

# System Flexibility

## Series recording

Built-in series input/output connectors allow you to extend your recording capabilities indefinitely or take advantage of shorter realtime or high-density recording modes (6, 18, or 30 hours) for longer periods. Connect several VCRs in series and automatically switch recording from one unit to the next without interrupting the recording.

## Camera switching function

The SR-9168U is equipped with a camera select signal output to synchronize camera switching with timelapse recording intervals. Since switching is performed during pauses in recording, even when using multiple cameras, continuous coverage is assured during timelapse recording.

## Power-off video through-out function

Even when the power is off, the camera's EE input can be output from the VCR.
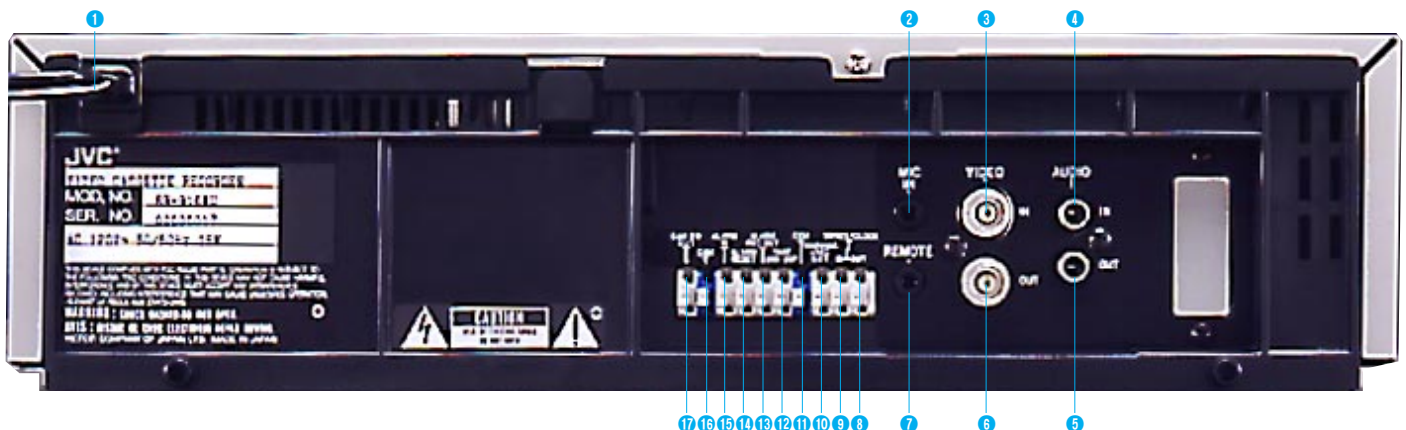
## Optional RS-232C interface

The SR-9168U can easily be integrated in a centralized, computer-controlled security system with the optional RS-232C interface (SA-K97U) for direct computer connection.

## Other Features

- On-screen menu setting functions
- Automatic head cleaning
- Quick-response full-loading mechanism
- Picture control (normal/sharp)
- Digital hour meter display
- Repeat recording
- Alarm recording, tape end and warning electronic buzzer
- Summer time compensation function
- Wired remote control (optional)
- Tape end signal output function
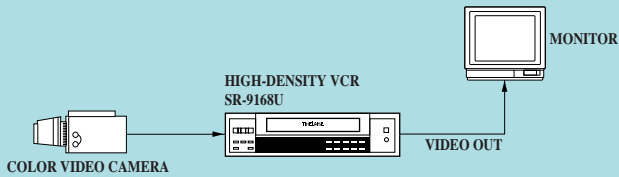- Clock adjust
- Auto tape eject function

## Rear panel

1. Power cable
2. [MIC IN] connector
3. [VIDEO IN] connector (BNC)
4. [AUDIO IN] connector (RCA)
5. [AUDIO OUT] connector (RCA)
6. [VIDEO OUT] connector (BNC)
7. [REMOTE] connector
8. [SERIES/CLOCK OUT] terminal
9. [SERIES/CLOCK IN] terminal
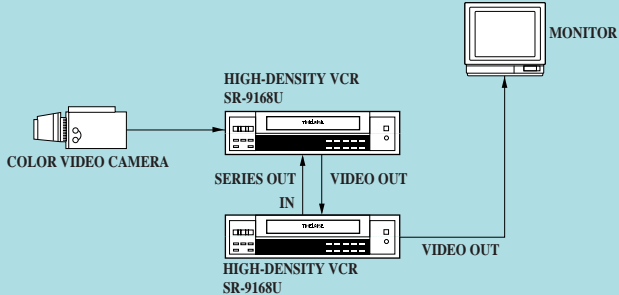10. [WARNING/REC OUT] warning signal output terminal
11. [COM] common ground terminal
12. [TAPE END OUT] tape end signal output terminal
13. [ALARM REC OUT] alarm recording mode signal output terminal
14. [ALARM RESET] alarm signal reset input terminal
15. [ALARM IN] alarm signal input terminal
16. [COM] common ground terminal
17. [CAM SW OUT] camera switching signal output terminal

# Design Your Own System Configuration

## System 1 — Basic System



COLOR VIDEO CAMERA
HIGH-DENSITY VCR SR-9168U
VIDEO OUT
MONITOR

## System 2 — Long Duration Surveillance



COLOR VIDEO CAMERA
HIGH-DENSITY VCR SR-9168U
SERIES OUT    VIDEO OUT
IN
VIDEO OUT
HIGH-DENSITY VCR SR-9168U
MONITOR

## System 3 — Multi-Camera Sequential Recording System



CAMERA SW OUT
SEQUENTIAL SWITCHER
VIDEO IN
HIGH-DENSITY VCR SR-9168U
VIDEO OUT
MONITOR
COLOR VIDEO CAMERA
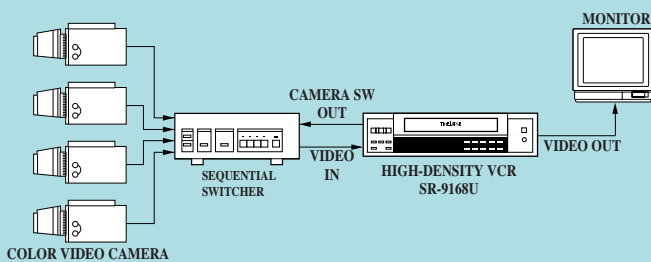
## System 4 — Multi-Camera Multi-Screen Recording System



MONITOR TV
VIDEO
CAMERA SW OUT
FRAME SWITCHER
VIDEO IN/OUT
HIGH-DENSITY VCR SR-9168U
COLOR VIDEO CAMERA
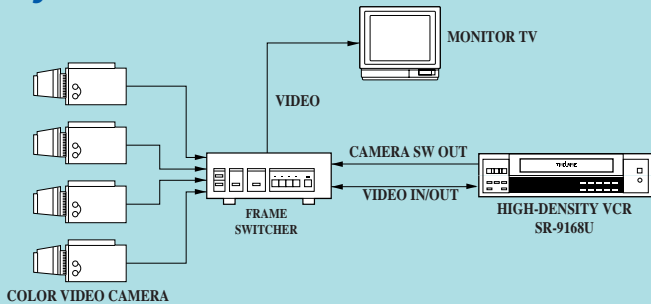
## DIMENSIONS (mm/inches)



360 (14-3/16)
288 (11-3/8)
94 (3-3/4)
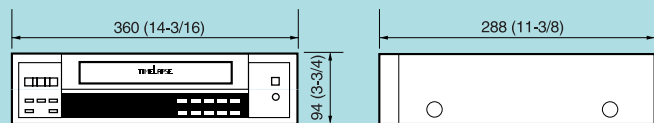
# SPECIFICATIONS

## GENERAL
Power requirement: AC 120 V, 50/60 Hz
Power consumption: Approx. 16 W (5 W in Standby mode)
Dimensions (mm): 360 (W) x 94 (H) x 288 (D) (14-3/16" x 3-3/4" x 11-3/8")
Weight: 5 kg (11.0 lbs.)
Temperature:
  Operating: +5˚C to +40˚C (41˚F to 104˚F)
  Storage: -20˚C to +60˚C (-4˚F to 140˚F)
Tape speed: 11.12 mm/sec., EP mode
Recording and playback time: 6 hours (EP mode)
6, L18, L30, 48, 72, 96, 120, 168, 240 hours
(High-density mode: field recording)
(with T-120 cassette)

## VIDEO
Signal system: NTSC-type color signal, 525 lines/60 fields
Recording system: Luminance: FM recording
                  Chrominance: Down converted direct recording
Signal input: 0.5 to 2.0 Vp-p, 75 ohms, unbalanced (BNC)
Signal output: 1.0 Vp-p, 75 ohms, unbalanced (BNC)
Horizontal resolution: Color mode: 230 lines or more (6H mode)
S/N ratio: 43 dB or more (6H mode)

## AUDIO
Number of tracks: 1 (normal)
Line input: -8 dBs, 50 kohms, unbalanced (RCA)
Mic input: -67 dBs, 600 ohms, unbalanced
Line output: -8 dBs, 1 kohm, unbalanced (RCA)
Frequency response: 100 Hz to 5 kHz (6H mode)
S/N ratio: 40 dB or more (6H mode)

## TIME/DATE GENERATOR
Display: Month, day, year, hours, minutes, seconds, recording mode
Display position: 4 positions
Character size: 16H
Power backup: Approx. five years

## ALARM
Input: Input-ground contact
Camera SW: Negative pulse output (approx. 5 ms)

## OPTIONAL ACCESSORIES
SA-K97U: RS-232C interface
RM-G30U: Remote control unit

*For information about Year 2000 compliance, refer to the JVC home page at http://www.victor.co.jp.*



SA-K97U          RM-G30U

*Design and specifications subject to change without notice.*



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Printed in Japan
CQN0067 CESR9168UUN906