

## KR4096HN/KR4168HN

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### 24-HOUR REAL-TIME HIGH-DENSITY RECORDER (96-HOUR AND 168-HOUR)

The KR4096HN and KR4168HN real-time/high-density recorders are advanced, high-quality audio/video recorders designed for video surveillance systems. Capable of recording in color and black-and-white, both recorders have extensive programming capabilities and provide outstanding picture quality.

These high performance units provide 24-hour virtual real-time recording, 20 fields per second, in L18H-hour mode, in addition to providing high-density time-lapse modes up to 96 or 168 hours. Various search and playback functions allow quick access to recorded events, while the 400 line super resolution mode meets the needs of the most demanding applications.

This adds up to a powerful surveillance system for banks, office buildings, convenience stores, boutiques, casinos and parking lots, as well as a convenient observation tool for numerous time-intensive processes.

**Features:**

- Super resolution mode of over 400 lines on standard VHS tapes
- Continuous recording at 20 fps in L18-hour mode (24 hours with T-160 tape)
- Audio rec. up to 40 hours using a T-160 tape
- Self-diagnosis for automatic problem detection
- RS-232C interface for remote operation
- Variety of search & playback functions via jog dial/shuttle ring
- Multiple language menus
- 1-year limited warranty on parts & labor, 6-month limited warranty on heads



KR4096HN



KR4168HN

**ORDERING:**

<b>KR4096HN</b>	96-hr. High Density Recorder
<b>KR4168HN</b>	168-hr. High Density Recorder

**Note:** Honeywell reserves the right, without notification, to make changes in product design or specifications.

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# KR4096HN/KR4168HN

## SPECIFICATIONS:

Tape Speed and Recording Time for 96-hour model:

T-120		T-160		Recording Interval (Sec/Field)	Recording Fields per Second	Audio Signal
Mode	Time (Hour:Minute)	Mode	Time(Hour:Minute)			
6H (EP)	6:00	8H (EP)	8:00	0.0167	60	Recordable
L18H (EP)	18:00	L24H (EP)	24:00	0.050	20	Recordable
L30H (EP)	30:00	L40H (EP)	40:00	0.083	12	Recordable
48H (EP)	54:00	64H (EP)	72:00	0.150	6.7	Not Recorded
72H (EP)	78:00	96H (EP)	104:00	0.217	4.6	Not Recorded
96H (EP)	102:00	128H (EP)	136:00	0.284	3.5	Not Recorded

Tape Speed and Recording Time for 166-hour model:

T-120		T-160		Recording Interval (Sec/Field)	Recording Fields per Second (Fields/Sec)	Audio Signal
Mode	Time (Hour:Minute)	Mode	Time(Hour:Minute)			
6H (EP)	6:00	8H (EP)	8:00	0.0167	60	Recordable
L18H (EP)	18:00	L24H (EP)	24:00	0.050	20	Recordable
L30H (EP)	30:00	L40H (EP)	40:00	0.083	12	Recordable
48H (EP)	54:00	64H (EP)	72:00	0.150	6.7	Not Recorded
72H (EP)	78:00	96H (EP)	104:00	0.217	4.6	Not Recorded
96H (EP)	102:00	128H (EP)	136:00	0.284	3.5	Not Recorded
120H (EP)	126:00	160H (EP)	168:00	0.350	2.9	Not Recorded
168H (EP)	174:00	224H (EP)	232:00	0.484	2.1	Not Recorded

### GENERAL:

<b>Ambient Temperature</b>	41°F - 104°F (5°C - 40°C)
<b>Ambient Humidity Max.</b>	80% (non-condensing)

### OPTIONS:

<b>MI-R9100</b>	Optional remote control
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## SPECIFICATIONS:

Electrical	
<b>Video Signal Format:</b>	NTSC standard, (525 lines, 60 fields)
<b>Video Record. System:</b>	4 rotary heads.
<b>Luminance Signal:</b>	Frequency modulation recording
<b>Color Signal:</b>	Low frequency conversion, sub-carrier phase shift recording
<b>Audio Track:</b>	1 track
<b>Video Input:</b>	1.0Vp-p, 75 ohms, BNC
<b>Video Output (rear):</b>	1.0Vp-p, 75 ohms, BNC
<b>Video Output (front):</b>	1.0Vp-p, 75 ohms, RCA
<b>Video S/N Ratio:</b>	> 43dB
<b>Video Resolution:</b>	> 400 horizontal lines (super resolution mode) > 240 horizontal lines (VHS mode)
<b>Audio Input:</b>	308mv (RMS), 50kohms, RCA plug
<b>Audio Output:</b>	388mv (RMS), 1kohms, RCA plug
<b>Audio S/N Ratio:</b>	> 43dB
<b>Microphone input:</b>	0.346mv (RMS), 600 ohms mini jack
<b>Audio Freq. Response:</b>	70Hz - 7kHz (6 hour mode)
<b>Alarm Recording Time:</b>	Timed: 15 sec/30 sec/45 sec/1 min, 2 min/5 min/10 min, Manual 1, Manual 2
<b>Timer Program:</b>	8 programs, Daily start and stop time for one week
<b>Battery Backup:</b>	Up to 31 days
<b>Power Source:</b>	100 to 230V ac, 60/50 Hz.
<b>Power Consumption:</b>	Approx. 20W

### Mechanical

<b>Tape Format:</b>	VHS 1/2" width high-density video cassette tape
<b>Fast Forward/Rewind Time:</b>	Approx. 120 sec. with T-120 tape
<b>Heads Video:</b>	4 rotary heads
<b>Audio/Control:</b>	1 stationary head
<b>Erase:</b>	1 full track head
<b>Motors:</b>	3 motors-drum/capstain direct drive system.
<b>Connectors:</b>	
<b>ALM Input:</b>	Screw terminal for starting alarm recording
<b>RST Input:</b>	Screw terminal for finishing alarm recording or for adjusting on-screen clock
<b>REC Input:</b>	Screw terminal for starting/finishing recording or for series recording
<b>GND:</b>	Screw terminal for ground
<b>ALM Output:</b>	Screw terminal for alarm output
<b>CLK Output:</b>	Screw terminal to command camera switching
<b>MODE Output:</b>	Screw terminal for indication of VCR selected mode
<b>CALL Output:</b>	Screw terminal for external warning device or for series recording
<b>REMOTE Jack:</b>	Jack for connecting remote control unit
<b>RS-232C Interface:</b>	D-SUB 9-pin connector
<b>Dimensions (W x H x D):</b>	16.7W x 3.7H x 12.3D in (425W x 95H x 313D mm)
<b>Weight:</b>	9.0 lbs (4.2kg)