SuperLoLux HD™

High-Definition Surveillance Solutions

SuperLoLux™ Sensitivity | **Full HD 1920×1080** | **Multi Codec** | **H.264 High Profile** | **Clear Logic Video Intelligence C.L.V.I.** | **Onvif**

Envisioning Your Security.
Providing Optimal Solutions.

JVC's commitment to your security is crystal clear. That is why we provide a broad lineup of cameras offering high-quality images, high-reliability performance, easy installation and worry-free handling. Regardless of the environment where you put them to work, whether indoors or outdoors, there is a JVC HD Network Camera aimed at satisfying your needs and exceeding your expectations. See how they work for you.

Super LoLux HD™ Series Lineup

CS Mount
VN-H37U
VN-H57U
*Lens not included

Lens Integrated
VN-H137U

Mini Dome
VN-H237U
VN-H257U

Vandal Resistant IK10

Ceiling recessed instllation
with WB-S2205 optional bracket.

Outdoor/Vandal Dome
VN-H237VPU
VN-H257VPU

Vandal Proof

Outdoor Ready IP66

Housing Integrated
VN-H157WPU

Outdoor Ready IP66

Quick Comparison

Model	CS mount		Lens integrated	Mini dome		Outdoor dome		Housing integrated
Features	**VN-H37U**	**VN-H57U**	**VN-H137U**	**VN-H237U**	**VN-H257U**	**VN-H237VPU**	**VN-H257VPU**	**VN-H157WPU**
Lens integrated			✓	✓	✓	✓	✓	✓
20J vandal protection [IK10]				✓	✓			
50J vandal proof						✓	✓	
Dust/Water protect [IP66]						✓	✓	✓
Full HD resolution	✓	✓	✓	✓	✓	✓	✓	✓
H.264 High profile	✓	✓	✓	✓	✓	✓	✓	✓
C.L.V.I.	✓	✓	✓	✓	✓	✓	✓	✓
3DNR	✓	✓	✓	✓	✓	✓	✓	✓
Privacy mask	✓	✓	✓	✓	✓	✓	✓	✓
Smart motion detection	✓	✓	✓	✓	✓	✓	✓	✓
SD card recording	✓	✓	✓	✓	✓	✓	✓	✓
Analog video output	✓	✓	✓	✓	✓	✓	✓	✓
Active tampering detection	✓	✓	✓	✓	✓	✓	✓	✓
True Day/Night	✓	✓			✓	✓	✓	✓
Remote focus					✓		✓	✓
Remote back focus		✓						
Audio In/Out, Audio detection		✓			✓		✓	✓
Alarm In/Out		✓			✓		✓	✓
Power	PoE	PoE, AC24V	PoE	PoE	PoE, AC24V	PoE	PoE, AC24V	PoE, AC24V

High range / Middle range

JVC Quality: Clear Images with Precise Color All the Time

Super LoLux HD™ "COLOR IN VIRTUAL ZERO LUX"

JVC original technology enables superior color reproduction even in dim environments (0.15lx at color mode). Precise surveillance with color images is assured even during high resolution monitoring.

Normal camera

JVC Super LoLux HD™

3D Noise Reduction (3DNR)

3DNR is a powerful method of improving image quality even for images shot in the dark. Noise data is detected by comparing consecutive frames and reduced by blending it into other frames over time.

Competitor's

JVC 3DNR

Full HD Monitoring and Auto Patrol Function

Monitoring with high resolution 1920x1080 Full HD images. Since high resolution is achieved, you can cover a larger area with a smaller number of cameras. "Auto Patrol" is made possible with the Digital PTZ function. Select up to 20 areas as "Preset positions" to be clipped from within the original angle and distributed sequentially.

• VGA/4CIF/PAL
• Quad VGA
• Full HD

• Auto Patrol


Original angle (Home)

H.264 High Profile Saves Bandwidth with High Efficiency

JVC H.264 High Profile offers even higher compression efficiency, reducing data bulk to an estimated 30% lower than normal H.264 Baseline Profile or H.264 Main Profile while maintaining precise image quality. H.264 High Profile, a truly intelligent method of image compression, can apply a lower compression rate to fine areas while applying very high compression to flat areas to save bandwidth depending on the image condition. By comparison, normal Baseline/Main profile applies the same compression rate to all areas. This difference directly affects image quality and bandwidth efficiency.
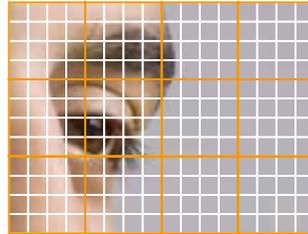
Baseline/Main Profile:
Same compression rate by 4x4 pixel blocks
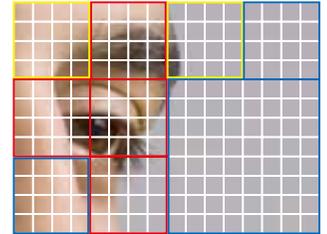
H.264 High Profile:
Intelligent compression with variable compression rate depending on image condition of each 4x4/8x8/4x8/8x4 pixel block

Dual/Triple Stream for Zero-Latency Switching

The camera is capable of outputting not just one, but actually two or even three video streams simultaneously. Simply switch channels to select a different stream with no noticeable time lag, such as when switching from normal bandwidth-saving VGA stream to a Full HD stream when an alarm is tripped or suspicious activity is detected. This enables observation of critical scenes with higher resolution and clearer details.

C.L.V.I. (Clear Logic Video Intelligence)

High performance image processing technology offers superior wide dynamic performance and anti-fog capability. It assures clear pictures by effectively compensating for strong backlighting such as car headlights or digitally removing ambient fog, haze, or smoke by intelligent image correction process electrically. Edge enhanced images contribute to more precise recognition of monitoring objects.

Normal camera

C.L.V.I.

JVC Simplicity: Easy to Install and Use Right Away

Designed for Easy Installation

• Flexible Outdoor Installation (VN-H157WPU)

VN-H157WPU is a housing-integrated model for outdoor use. It installs easily onto ceilings and walls. Its angle can be adjusted over a wide range. The sunshade position is adjustable, and it utilizes a non-reflective material to contribute to an ideal observation environment.

Attaching base | Ceiling installation | Wall installation | Sliding sunshade shields against direct sunlight

• Ceiling Recessed Installation (Mini-Dome Series)

With optional ceiling bracket WB-S2205, Mini-Dome Series is designed to be flush mountable so you can easily recess it into the ceiling.

Install the bracket. | Affix the camera | Attach the dome cover, and that's all.
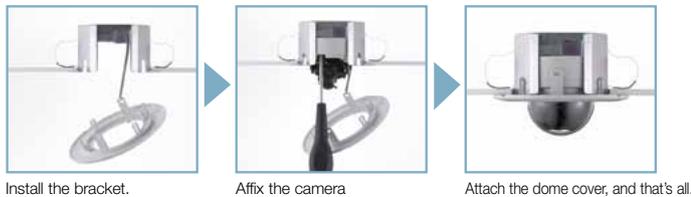
Powerful Focus Assist Technologies

• Fine Focus Adjustment Mechanism (Lens integrated models)

Extremely sensitive HD camera focus adjustment is facilitated with the use of an exclusive gear.

New "Fine Adjust" mechanism

Patent Pending

With a very subtle movement, finer, more accurate adjustment is possible.

Normal Focus ring and lock screw

• Auto/Remote Focus Adjustment (VN-H57/H157/H257 Series)

Focusing can be a headache with HD cameras, but with JVC the Auto Focus function makes it easy and efficient. Even after installation, focus settings can be adjusted remotely from the set-up page. Remote adjustment of back focus is also possible with VN-H57U.

Monitor Output for Quick Angle Adjustment

A convenient Monitor Output is equipped. With an external monitor unit connected, you can easily check the camera angle on the spot during installation.

# JVC Reliability: Built Tough for a Long Service Life

JVC Quality Vandal Protection

JVC dome cameras provide superior protection against vandalism. The Indoor Mini Dome offers IK10 level Vandal Resistance. Moreover, the camera is safeguarded by a protective cushion mechanism that absorbs shocks from the outside. The Outdoor/Vandal Proof model goes even further with 50J high impact resistance by virtue of its sturdy polycarbonate dome cover and aluminum die-cast camera body. It's the best choice for traffic, logistics and railways which require superior vandal-proof performance and water/dust protection.

Waterproof

Dustproof

Shock-resistant

Cushion mechanism
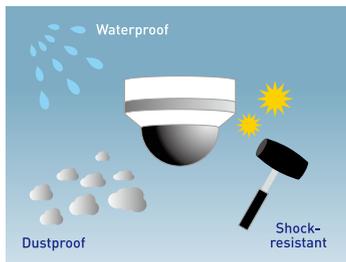
Super Long-Life Design with Thorough Temperature Simulation

Heat accumulation has a major impact on the lifespan of a camera. JVC's know-how in heat dissipation design allows our cameras to deliver long quality and long life. The expertise we've gained in the analog camera field gives our cameras industry-leading service life. The same holds true for our HD cameras.
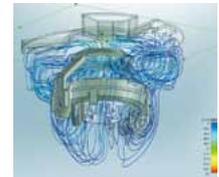
Various Alarm Functions

Incorporating various alarm functions including external alarm, tampering alarm, audio detection and motion detection, integrated operation with recording systems is possible. Suspicious activity will not go undetected.

Local Recording on SD Card

It is possible to record onto SD Card, including regular recording, Pre/Post Alarm recording, and more. Files recorded on SD Card can be downloaded and used on a PC.

Super LoLux HD™ Series Meets Three Global Standards of Security Cameras

1. Eco-Friendly Super Low Power Consumption

JVC Super LoLux HD™ Series saves 20% more energy than various competitors' models.

JVC VN-H37/H237 Series
120mA / 5.8W

Brand A
143mA / 6.8W

Brand B
145mA / 7.0W

Brand C
158mA / 7.6W

2. ONVIF/PSIA Support

Supports ONVIF and PSIA – world standard protocols for network cameras. It expands the possibility for various system integration.

3. Various VMS Support

Partnership with various VMS companies including Milestone for systems flexibility and upgradability.

Specifications

• Super LoLux HD™

	VN-H37U	VN-H57U	VN-H137U	VN-H157WPU	VN-H237U	VN-H257U	VN-H237VPU (US market only)	VN-H257VPU
Camera/Lens								
Image device	1/3-type Super LoLux CMOS, 1080p 2.2M							
Minimum illumination	0.15 lx (25% AGC HIGH)		0.15 lx (25% AGC HIGH)	0.15 lx (25% AGC HIGH)	0.15 lx (25% AGC HIGH)	0.15 lx (25% AGC HIGH)		
B&W mode	0.025 lx (25% AGC HIGH)		0.1 lx (25% AGC HIGH)	0.025 lx (25% AGC HIGH)	0.1 lx (25% AGC HIGH)	0.025 lx (25% AGC HIGH)		
Day/Night	True D/N		Easy D/N	True D/N	Easy D/N	True D/N		
Wide dynamic range function	C.L.V.I. (Clear Logic Video Intelligence)							
3DNR	Yes (Low / Mid / High)							
White balance	Manual / ATW-Wide / ATW-Narrow / AWC							
Sens-up	Off, x2 to x60							
BLC	4 patterns							
Scene file	8 patterns							
Privacy mask	Yes							
Smart motion detection	Yes							
Advanced audio function	–	Yes	–	Yes	–	Yes	–	Yes
Digital PTZ	20 preset positions, Auto patrol, Auto return, 8x digital zoom							
Lens	CS		2.8 - 10.5 mm 3.75x vari focal, F1.2	3.0 - 9.0 mm 3x vari focal, F1.2	2.8 - 10.5 mm 3.75x vari focal, F1.2	3.0 - 9.0 mm 3x vari focal, F1.2	2.8 - 10.5 mm 3.75x vari focal, F1.2	3.0 - 9.0 mm 3x vari focal, F1.2
Fine focus adjust mechanism	–		Yes					
Focus adjustment	Manual	Remote / Auto back focus	Manual	Remote / Auto focus	Manual	Remote / Auto focus	Manual	Remote / Auto focus
Network								
Image compression	H.264 High Profile / H.264 Main Profile / MPEG4 / Motion JPEG							
Picture resolution	H.264 High Profile : 1920x1080, 1280x960, 1280x720, 640x480, 640x360, 320x240 MPEG4: 640x480, 320x240 JPEG: 1920x1280, 1280x960, 1280x720, 640x480, 640x360, 320x240							
Compression levels	JPEG:VFS 7 levels / AFS 5 KB - 320 KB H.264 High Profile 64 kbps - 8000 kbps MPEG4: CBR/VBR/adjustable 64 kbps - 4000 kbps							
Maximum frame rate	H.264 High Profile : 30 fps JPEG : 15 fps MPEG4 : 30 fps							
Distribution	Triple stream by the same encoding simultaneously by different resolution, Dual stream by H.264+JPEG or MPEG4+JPEG, or Single stream							
Max. clients	20 users by unicast / unlimited users by multi cast							
Access protection	3 levels password, IP address filtering							
FTP recording	Yes							
ONVIF/PSIA	Supported							
Protocol	TCP/IP, UDP/IP, FTP, ICMP, ARP, DHCP, SNTP, HTTP, DSCP, SMTP, RTP, RTSP, IGMP, IPv6, HTTPS, SNMP, AMX Device Discovery							
General								
Web viewer	Core2Duo (3GHz), 2GB RAM, Windows Vista Business (SP2) / Windows XP pro (SP3) / Windows 7 pro							
Video management	VR-X1600U/3200U, Milestone and other leading VMS software							
Maintenance tool	IP address setup, device search, batch updater							
Monitor out	Yes							
Audio communication	–	Line in/out, two-way(full/half duplex), μ-law 64kbps, AD/DA 16bits Fs=8kHz	–	Line in/out, two-way(full/half duplex), μ-law 64kbps, AD/DA 16bits Fs=8kHz	–	Line in/out, two-way(full/half duplex), μ-law 64kbps, AD/DA 16bits Fs=8kHz	–	Line in/out, two-way(full/half duplex), μ-law 64kbps, AD/DA 16bits Fs=8kHz
Memory slot	SDHC							
Tamper alarm	Yes							
Alarm In/Out	–	In x2 / Out x 2	–	In x2 / Out x 2	–	In x2 / Out x 2	–	In x2 / Out x 2
Power	PoE	PoE / AC24V	PoE	PoE / AC24V	PoE	PoE / AC24V	PoE	PoE / AC24V
Power consumption	120 mA	150 mA	120 mA	150 mA	120 mA		150 mA	
Dust and water proof	–			IP66	–		IP66	
Vandal protection	–			Vandal resistant IK10 level [20J]	–		Vandal proof [over 50J]	
Working temperature	-10 °C to 50 °C						-10 °C to 50 °C with KA-ZH215U optional heater	
Dimensions (WxHxD)	55mm x 61mm x 121 mm	55mm x 61mm x 124 mm	55mm x 61mm x 170 mm	140mm x 167mm x 257 mm	ø111mm x H 117m		ø160mm x H 126m	
Weight (approx.)	340 g	360 g	390 g	1.8 kg	450 g	480 g	1.3 kg	

• Network Video Recorder

|	VR-X1600U	VR-X3200U
Camera channel	16 (Up to 32-ch in total by additional channel option)	32 (Up to 64-ch in total by additional channel option)
Video compression	H.264 High Profile/JPEG/MPEG-4	
Audio compression	μ-law (64kbps) A/D 8-bit, Fs 8 KHz	
Frame rate (720p, H.264)	Recording/Display/Distribution: 100/100/100 (simultaneous)	Recording/Display/Distribution: 150/150/150 (simultaneous)
CPU and memory	Intel G6950 Dual-Core (2.8 GHz) RAM: 4 GB	Intel Core i3 (3 GHz) RAM: 4 GB
HDD capacity	1 TB	
Additional HDD	3 TB (Optional bracket VR-HDD0U is required.)	
NAS	Yes	
RAID	1/5/10, 6 (optional)	
Master slave configuration	Yes	
Export function	Export media: USB memory, CD-R/RW or DVD-R/RW (USB external) Export format: AVI (video), JPEG (image), database (internal format)	
Recording function	Alarm recording, Scheduled recording, Manual recording	
Playback function	Normal/Slow/Fast playback, fast forward and reverse, Frame-by frame playback, simultaneous playback/recording	
Search function	Time/Date search, Alarm search, Motion detection on playback images	
Security	Protected by user name and password	
Language	English	
Supported protocol	HTTP, SMTP (client), TCP, DHCP (client/IP lease), ARP, DNS (client), NTP, SNMP (Ver. 1 and 2c), DDNS, SMNP	
Minimum requirements for remote PC	OS: Microsoft Windows XP Professional*, Windows Server 2003*, Windows Server 2008 R1*/R2*, Windows Vista (Business*, Enterprise*, Ultimate*), Windows 7 (Professional*, Enterprise*, Ultimate*) CPU: Intel Core2 Duo, 2.4 GHz or higher RAM: 1 GB Network: Ethernet, 100 Mbit or higher Graphic card: AGP or PCI-Express, minimum 1024 × 768 (1280 × 1024 recommended), 16-bit color HDD capacity for installation: Minimum 100 MB free Software: DirectX 9.0 or newer required to run Playback Viewer application. Microsoft .NET 3.5 Framework SP1, or newer *32-bit or 64-bit	
Remote PC operation	Live viewing, Playback of recording images, Camera control, Data export	
I/F	LAN 1: 1000 BASE-TX, 10 BASE-T LAN 2: 1000 BASE-TX, 10 BASE-T Serial: USB 2.0 × 6 Display output: × 6, DVI × 1 (Digital only) External storage: eSATA × 1 Audio in: mini jack Audio out: mini jack Alarm terminal: Alarm in × 8, Alarm reset in, OPE on/off, Warning out, REC tally	
Power supply	120 VAC – 240 VAC	
Power consumption	Max. 1.2 A (120 VAC)	
Operating temperature	5 °C to 40 °C	
Dimension (W×H×D)	420 mm × 140 mm × 350 mm	
Weight (approx.)	9.1 kg excluding power supply	
Accessories	Startup guide, Power cord, Rack mount brackets, Screws	

• Dimensions

VN-H37U

VN-H57U

VN-H137U

VN-H157WPU

VN-H237U
VN-H257U

VN-H237VPU
VN-H257VPU
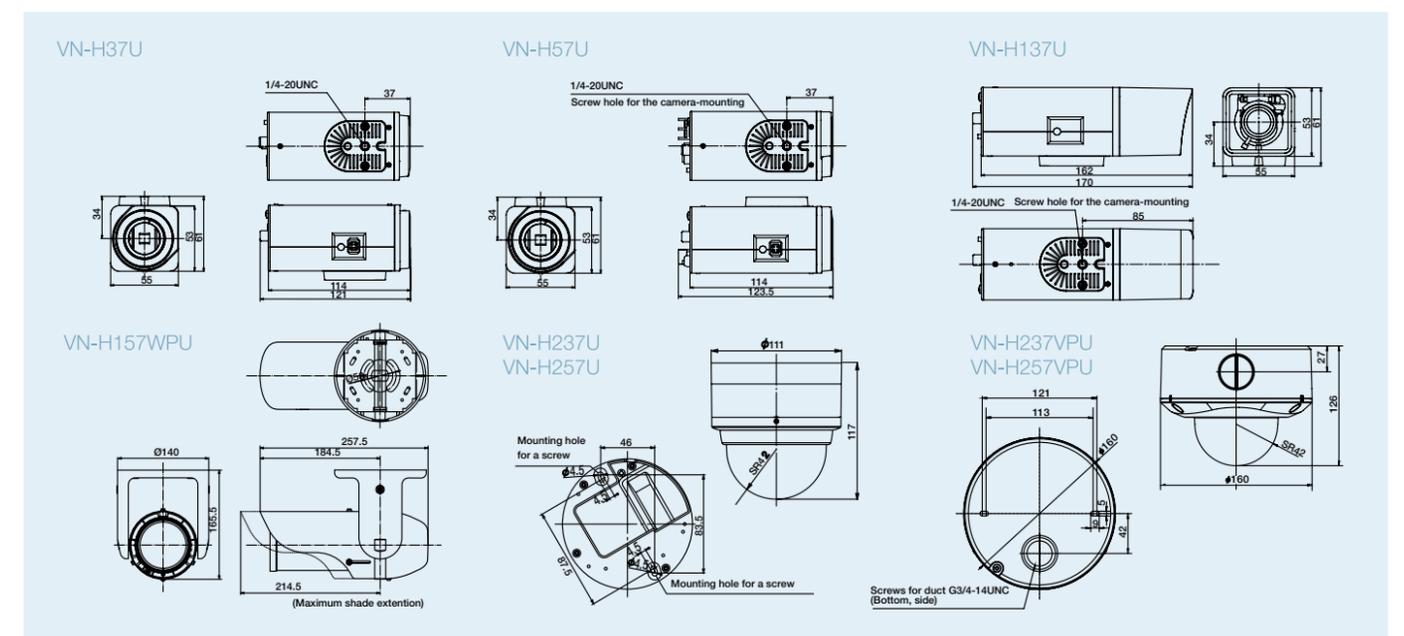
Multi-Codec Network Video Recorder
VR-X1600U/X3200U

• Viewer

Milestone XProtect
Enterprise embedded

Powered by Milestone
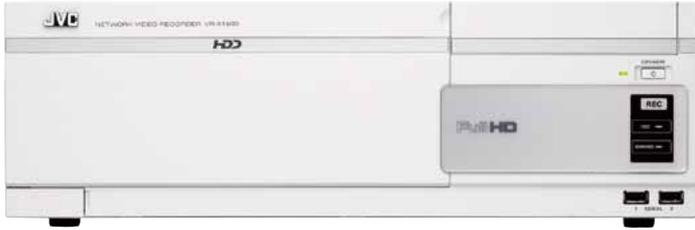
- Supports H.264 High Profile/Motion JPEG/MPEG-4 camera recording
- 2800 ips powerful recording maximum (H.264 VGA)
- Full HD 1920x1080 output for precise monitoring
- Pre-installed Milestone Xprotect Enterprise software for user-friendly interface and easy operation
- Master/Slave configuration for large system without any additional license or server PC
- VR-X3200U: Up to 32-ch recorder fully camera licensed, optional license up to 32 channels additionally
- VR-X1600U: Up to 16-ch recorder fully camera licensed, optional license up to 16 channels additionally
- Optional camera license JVCNVRCL available by one channel
- Built-in 1TB HDD with 3 additional expansion slot (optional bracket VR-HDD0U required)

- Available NAS archiving, Data export function
- Supports RAID 1, 5, 10 initially and RAID 6 optionally

Maintenance friendly HDD installation from the front panel

• Recording times (H.264 High Profile)

Unit: Hours

Resolution	Full HD	720p	Full HD	720p	VGA	VGA	VGA
Frame rate	30ips	30ips	15ips	30ips	30ips	15ips	15ips
Data size	3.6Mbps	2Mbps	1.8Mbps	1Mbps	660Kbps	330Kbps	128Kbps
1TB HDD (without audio recording)							
16ch	–	58	65	117	181	362	933
32ch	–	–	–	58	90	181	467
8TB HDD [4TB internal + 4TB external] (without audio recording)							
16ch	–	481	534	962	1492	2984	7692
32ch	–	–	–	481	746	1492	3846
2TB HDD [RAID10, 4TB internal] (without audio recording)							
16ch	65	117	130	237	368	736	1899
32ch	–	–	65	119	184	368	949

2 weeks   1 month   3 months +

• Dimensions

Unit: mm

44.7
350
1.5
420
132
140
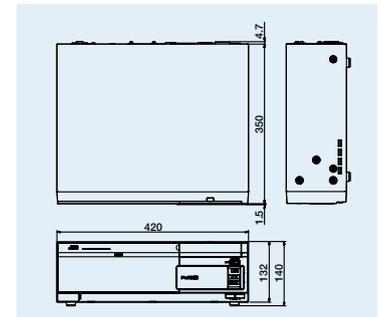
• Supported devices

JVC
- VN-V25U • VN-V26U • VN-V685U • VN-V686U • VN-V686BU • VN-V686WPBU • VN-V225U/VPU • VN-X235U/VPU • VN-C20U • VN-C655U • VN-C625U
- VN-E4U/E • VN-C215U • VN-X35U • VN-H37U • VN-H57U • VN-H137U • VN-H157WPU • VN-H237U • VN-H257U • VN-H237VPU • VN-H257VPU

AXIS
- M1054 • M1114 • M3014 • P1346

Over 1000 models supported by Milestone are connectable with VR-X1600/X3200U. Performance guarantee is applied to the models on above list only.

Design and specifications subject to change without notice.

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