

# JVC

FULL HD NETWORK CAMERA

## SuperLoLux HD™



### Super LoLux HD™ Sensitivity

JVC original technology to assure excellent color reproduction even in low light. 0.15 lx at color mode

### Full HD Monitoring

Outputs high-resolution Full HD images of up to 1920x1080 pixels

### Super LoLux™ High Performance Multi Codec

Multi codec capability of H.264 High Profile, Motion JPEG, or MPEG4.

### Newly-developed C.L.V.I.

#### Clear Logic Video Intelligence

Incorporates Clear Logic Video Intelligence, JVC original technology to offer superior wide dynamic performance and anti-fog capability.

### JVC H.264 High Profile DSP

JVC H.264 High Profile DSP offers even higher compression efficiency and precision than H.264 Baseline Profile or H.264 Main Profile that is incorporated in ordinary cameras. It enables distribution of high resolution images while saving even more bandwidth.

### Powerful and various distribution

Max. 30 fps Full HD single distribution, 3 streams by various resolution simultaneously or dual stream by different codec at the same time.

### Reliable design - MTBF 30,000 h



## Super LoLux HD (TM)

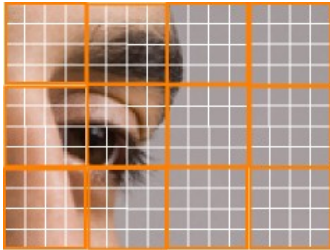
JVC original technology enables superior color reproduction even in dim environments. Precise surveillance with color images is assured even during high resolution monitoring.



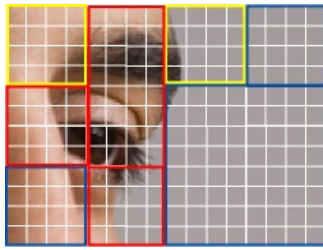
Normal camera



JVC Super LoLux HD™



Baseline/Main Profile  
Same compression rate by  
4x4 pixel blocks



H.264 High Profile  
Intelligent compression with  
variable compression rate  
depending image condition of  
each 4x4/8x8/4x8/8x4 pixel  
block

## H.264 High Profile

JVC H.264 High Profile DSP offers even higher compression efficiency estimated to reach into maximum 50 % lower than normal H.264 Baseline Profile or H.264 Main Profile with keeping precise image quality. H.264High Profile, really intelligent method of image compression, which can apply lower compression rate to precise area at the same time apply to very high compression to flat area to save bandwidth depending on the image condition. Against this, normal Baseline/Main profile applies to the same compression rate to all areas. This difference directly effects to image quality and bandwidths efficiency.



## C.L.V.I. Clear Logic Video Intelligence





Newly-developed 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 helps more precise recognition of monitoring objects.

(VN-H series only)



Super LoLux HD™

## Camera / Lens

	VN-H57U	VN-H157WPU	VN-H257U	VN-H257VPU
				
Image device	1/3 SUPER LOLUX CMOS, 1080p 2.2M			
Minimum Illumination <B&W mode>	0.15 lx (25% AGC HIGH) <0.025 lx (25% AGC HIGH)>			
Day/Night	True D/N			
Wide dynamic range	C.L.V.I. Clear Logic Video Intelligence			
3D Noise reduction	Yes (Normal / High)			
White balance	Manual / ATW / AWC			
Sense up	Off, x2 to x60			
Backlight compensation	4 patterns			
Scene file	8 patterns			
Privacy mask	Yes			
Detection	Motion detect / Audio detect			
Digital PTZ	20 preset positions, Auto patrol, Auto return, 8x digital zoom			
Lens	CS	3.0 - 9.0 mm 3x vari focal, F1.2		
Fine focus adjust mecha	-	Yes		
Focus adjustment	Remote / Auto back focus	Remote / Auto focus		

## Network





Image compression	H.264 (High Profile supported) / MPEG4 / Motion JPEG			
Picture resolution	H.264 : 1920x1280, 1280x960, 1280x720, 640x480, 640x360, 320x240, 320x180 MPEG4 : 640x480, 320x240 JPEG : 1920x1280, 1280x960, 1280x720, 640x480, 640x360, 320x240, 320x180			
Compression levels	JPEG : VFS 7 levels / AFS 40 - 350 KB H.264 : 64 - 8000 kbps MPEG4 : CBR/VBR/adjustable 64 - 8000 kbps			
Frame rate <single>	Max.30 fps (H.264, MPEG4), MAX.15fps (MJPEG)			
Frame rate <dual>	JPEG H.264HP	1920x1080 5 fps 1920x1080 10fps		
	JPEG H.264 HP	1920x1080 7.5 fps 1280x720p 15 fps		
<triple>	H.264 HP	10 fps of 1920x1080, 1280x720 and 640x360 each simultaneously		
Max. clients	20 users by unicast / unlimited users by multi cast			
Access protection	3 levels password, IP address filtering			
ONVIF/PSIA	Supported			
Protocol	TCP/IP, UDP/IP, FTP, ICMP, ARP, DHCP, SNTP, HTTP, DSCP, SMTP, RTP, RTSP, IGMP, IPv6, HTTPS, SNMP			

## General

Web viewer	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), $\mu$ -law 64kbps, AD/DA 16bits Fs=8kHz			
SD Card Slot	Yes			
Tamper alarm	Yes			
Alarm I/O	In / Out			
Power	PoE / AC24V			
Power consumption	Less than 6.5W			
Dust/Water proof	-	IP66	-	IP66
Vandal protection	-	-	Vandal resistant	Vandal proof
Working temperature	-10 deg C to 50 deg C			
Dimensions (WxHxD)	2-3/16 x 2-7/16 x 5 inches	5-9/16 x 6-5/8 x 10-1/8 inches	dia4-3/8xH4-5/8 inches	Dia6-1/4xH4-7/8 inches
Weight	500 g (1.1 lbs)	1.9 kg (4.2 lbs)	800 g (1.8 lbs)	1.3 kg (2.9 lbs)



## Camera / Lens

	VN-H37U	VN-H137U	VN-H237U	VN-H237VPU
				
Image device	1/3 SUPER LOLUX CMOS, 1080p 2.2M			
Minimum Illumination <B&W mode>	0.15 lx (25% AGC HIGH) <0.025 lx (25% AGC HIGH)>	0.15 lx (25% AGC HIGH) <0.1 lx (25% AGC HIGH)>	0.15 lx (25% AGC HIGH) <0.025 lx (25% AGC HIGH)>	
Day/Night	True D/N	Easy D/N		True D/N
Wide dynamic range	C.L.V.I. Clear Logic Video Intelligence			
3D Noise reduction	Yes (Normal / High)			
White balance	Manual / ATW / AWC			
Sense up	Off, x2 to x60			
Backlight compensation	4 patterns			
Scene file	8 patterns			
Privacy mask	Yes			
Detection	Motion detect			
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		
Fine focus adjust mecha	-		Yes	
Focus adjustment	Manual			




## Network

Image compression	H.264 (High Profile supported) / MPEG4 / Motion JPEG			
Picture resolution	H.264 : 1920x1280, 1280x960, 1280x720, 640x480, 640x360, 320x240, 320x180 MPEG4 : 640x480, 320x240 JPEG : 1920x1280, 1280x960, 1280x720, 640x480, 640x360, 320x240, 320x180			
Compression levels	JPEG : VFS 7 levels / AFS 40 - 350 KB H.264 : 64 - 8000 kbps MPEG4 : CBR/VBR/adjustable 64 - 8000 kbps			
Frame rate <single>	Max.30 fps (H.264, MPEG4), MAX.15fps (MJPEG)			
Frame rate <dual>	JPEG H.264HP	1920x1080 5 fps 1920x1080 10fps		
	JPEG H.264 HP	1920x1080 7.5 fps 1280x720p 15 fps		
<triple>	H.264 HP	10 fps of 1920x1080, 1280x720 and 640x360 each simultaneously		
Max. clients	20 users by unicast / unlimited users by multi cast			
Access protection	3 levels password, IP address filtering			
ONVIF/PSIA	Supported			
Protocol	TCP/IP, UDP/IP, FTP, ICMP, ARP, DHCP, SNTP, HTTP, DSCP, SMTP, RTP, RTSP, IGMP, IPv6, HTTPS, SNMP			

## General

Web viewer	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	-			
SD Card Slot	Yes			
Tamper alarm	Yes			
Alarm I/O	-			
Power	PoE			
Power consumption	Less than 6.5W			
Dust/Water proof	-			IP66
Vandal protection	-	-	Vandal resistant	Vandal proof
Working temperature	-10 deg C to 50 deg C			
Dimensions (WxHxD)	2-3/16 x 2-7/16 x 5 inches	2-3/16x2-7/16x6-15/16	dia4-3/8xH4-5/8 inches	Dia6-1/4xH4-7/8 inches
Weight	500 g (1.1 lbs)	550 g (1.2 lbs)	750 g (1.7 lbs)	1.3 kg (2.9 lbs)

## Camera / Lens

	VN-T16U	VN-T216U	VN-T216VPRU
			
Image device	1/2.7 SUPER TELEX CMOS, 1080p 2.2M		
Minimum Illumination	0.3 lx (25% AGC HIGH, Color) / 0 lx (VN-216VP)		
Built-in IR LED	-		Yes
Day/Night	Easy D/N		True D/N
Noise reduction	Yes		
White balance	Manual / ATW(2,800 – 8,500K)		
Sens up	Yes		
Backlight compensation	Yes		
IR Distance	-		15 m
Privacy mask	Yes		
Detection	Motion detect		
Auto Gain Control	Yes		
Lens	CS	3 – 9 mm F1.2	
Sharpness	Yes		
Focus adjustment	Manual		

## Network

Image compression	H.264 (High Profile supported) / MPEG4 / Motion JPEG		
Picture resolution	1920x1080, 1280x720, 720x576, 720x480, 640x480, 352x288, 352x240		
Compression levels	JPEG: 3 - 90 H.264 : 1 – 31 MPEG4 : 1 - 31		
Frame rate <single>	Max. 30 fps by single stream at any compression		
Access protection	Multiple user access levels with password protection (1 Administrator, 5 viewers)		
Audio	Yes (In/Out)		
SD Card Slot	Yes		
ONVIF	Supported		
Protocol	TCP/IP, UDP/IP, FTP, ICMP, ARP, DHCP, SNTP, HTTP, HTTPS, SMTP, RTP, RTSP, IGMP, HTTPS, SNMP		

## General

Web viewer	Internet Explorer on Windows XP, Windows 7		
Video management	VR-X1600U/3200U, Milestone and other leading VMS software		
SD Card Slot	Yes		
Maintenance tool	IP finder		
Power	PoE IEEE802.3af, 12V DC, 24V AC		PoE IEEE802.3af, 24V AC
Power consumption	6W	6.5W	8W
Dust/Water proof	-		IP66
Vandal protection	-		Vandal Proof
Working temperature	-10 deg C to 50 deg C		
Dimensions (WxHxD)	56 x 68 x 125 mm	Φ126 x 106 mm	Φ155 x 112.7 mm
Weight	650 g	1000 g	1460g

# Series comparison

	Box			Bullet	Indoor Mini dome			Outdoor dome			Outdoor Bullet
	VN-H57U	VN-H37U	VN-T16U	VN-H137U	VN-H257U	VN-H237U	VN-T216U	VN-H257VPU	VN-H237VPU	VN-T216VPU	VN-H157WPU
Power	PoE/AC2 4V	PoE	PoE/AC/DC	PoE	PoE/AC2 4	PoE	PoE/AC/DC	PoE/AC24 V	PoE	PoE/AC	PoE/AC24 V
Focus adjust	Auto B/F				Remote /Auto focus			Remote/ Auto focus			Remote/ Auto focus
True D/N	Yes	Yes			Yes			Yes	Yes	Yes	Yes
Vandal protection					Vandal resistant			Vandal proof			
IP66								IP66	IP66	IP66	IP66
C.L.V.I.	Yes	Yes		Yes	Yes	Yes		Yes	Yes		Yes
3DNR	Yes	Yes	2D	Yes	Yes	Yes	2D	Yes	Yes	2D	Yes
SD slot	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Monitor out	Yes	Yes		Yes	Yes	Yes		Yes	Yes		Yes
Audio	Yes		Yes		Yes		Yes	Yes		Yes	Yes
Alarm	Yes		Yes		Yes		Yes	Yes		Yes	Yes

## Multi codec Network video recorder [VR-X1600U/X3200U]



- ✓ Pre-installed Milestone Xprotect Enterprise for user friendly interface
- ✓ 16ch / 32ch fully camera licensed, expandable up to 32ch / 64ch optionally
- ✓ H.264 High Profile / MPEG-4 / JPEG multi format
- ✓ Bi-directional audio with max 32 / 64 channels
- ✓ 2800 ips recording maximum [H.264 HP VGA]
- ✓ Master/Slave configuration for large system without any additional license or server PC
- ✓ Three HDD expansion slots for additional storage
- ✓ Maintenance friendly HDD installation mechanism from the front panel
- ✓ Dual monitor support [DVI+VGA]
- ✓ Support RAID 1, 5, 10 initially and 6 optionally
- ✓ Reliable and high performance components for industrial use provide durable and stable performance - MTBF 49,000 h

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# Super LoLux HD™