

## PTZ NETWORK DOME CAMERA VN-V685U/V686BU OUTDOOR PTZ NETWORK DOME CAMERA VN-V686WPBU

Dual Stream Network Cameras with 27x/36x Optical Zoom and Accurate Direct Drive Motor Mechanism

VN-V686WPBU





- Direct Drive Motor for Extra Precision and Silence
  - Super Accurate Positioning (±0.03° precision)
  - Super Fast & Super Slow Pan/Tilt (400°/sec to 0.04°/sec variable)
  - Super Silent Operation (Ideal for hospitals, libraries, and museums)
- Day/Night Function with IR Cut Filter Automatic switching between day and night modes for reliable round-theclock surveillance
- Effective Backlight Compensation
   Easy Wide-D Function provides clear images even in backlit situations
   Progressive Output Capability

Can output clear, smooth images without jaggy even for moving objects

- MPEG-4/Motion JPEG Full-Frame Dual Stream Simultaneous distribution of MPEG-4 and Motion JPEG VGA images at full frame rate (30fps for each stream)
- Super LoLux<sup>™</sup> Sensitivity 0.04 lx at B&W mode (25 % video level, F1.6, AGC SUPER) 0.5 lx at color mode (25 % video level, F1.6, AGC SUPER)
- PoE for Saving Installation and Cable Costs Built-in PoE (Power over Ethernet) allows the camera to be activated through a LAN cable connection.
- Quick and Easy Installation
   One-touch lock mechanism for quick and easy installation and maintenance
- Dust- and Waterproof Design (VN-V686WPBU) IP66-standard robust design suitable for outdoor monitoring system

# All the Precision and Quality to Capture the Crucial Moment

System with Maximum Reliability and Versatility.



## VN-V686WPBU

## External Dome Design

Made to IP66 standards, the housing provides complete protection from the elements but still provides crisp, clear images of its surroundings. Materials used will provide long-lasting service over years of harsh weather conditions.





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#### Quick Comparison

	VN-V685U	VN-V686BU	VN-V686WPBU
Туре	Indoor	Indoor	Outdoor
PoE	•	٠	<ul> <li>(without heater)</li> </ul>
Zoom Ratio	27x Optical	36x Optical	36x Optical
Direct Drive Motor	•	۰	•
Dust & Waterproof			•



# Direct Drive Motor – Breakthrough mechanism for more accurate and reliable camera movement

The VN-V685/V686 Series incorporates a newly-developed Direct Drive Motor for Pan/Tilt operation. Instead of a conventional belt-type mechanism, it can provide monitoring with more precision, less operation noise, and superior durability.

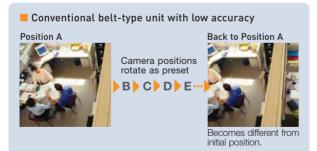
## See what's good about Direct Drive Motor Mechanism!

### Super Fast (400°/sec) & Super Slow (0.04°/sec) Pan/Tilt Performance

With a maximum 400°/sec. movement, you won't miss a crucial scene. Even when pan/tilting manually, the mechanism is very responsive allowing stress-free joystick operation. Furthermore, extremely slow movement of  $0.04^{\circ}$ /sec. is possible, so you can take a good look at the scene even at high zoom rates, thanks to the slow and smooth movement.

### Super Accuracy of ±0.03° for Preset Positions

With an accuracy of 0.03°, it can precisely maintain preset camera positions even after frequent panning and tilting, which becomes especially important at high zoom magnifications. With an ordinary camera (with low accuracy such as 0.1°), the camera position gradually shifts each time the camera is panned or tilted, so that after frequent usage the position becomes totally different from the initial correct position.



#### Direct Drive Motor with 0.03° accuracy



Back to Position A

Maintains almost the same position.

Images are explanatory purposes and are not actual images attained using this product.

## **Super Silent Operation**

The mechanical noises of a belt-driven PTZ camera are absent. In fact, the operating noise of the PoE Direct Drive is approx. 20% lower than normal belt-driven PTZ. This makes it ideal for usage in locations where noise should be avoided, such as hospitals, museums, libraries and offices.



## Super Durability and Reliability

Direct Drive is a very simple mechanism. The number of parts in the Direct Drive is far less than that of the belt-driven PTZ, so one can expect the durability to be approximately 160%. And since the Direct Drive is completely belt-less, there is no possibility of malfunction due to belts that will break on a regular basis. The simplified mechanism greatly reduces the chances of malfunction and increases reliability.



## 36x Optical Zoom for Incredible Magnification (VN-V686BU/V686WPBU)





The VN-V686BU and VN-V686WPBU come with a powerful 36x optical zoom to provide incredible magnification with full optical quality. It is powerful enough to allow identification of a face or a license plate located far away. (27x zoom for the VN-V685U)

## Quick and Easy Installation and Maintenance

Thanks to its "One-touch lock" mechanism, installation is extremely easy. Simply insert the camera unit to the bracket, and that's all, greatly reducing time and cost for installation and maintenance.

• VN-V685U/V686BU (Eg.: Ceiling recessed installation with WB-S685U\*) \* Note: WB-S685U ceiling recessed bracket is not available on the US market due to specific building code regulations.



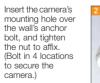




Push the camera straight up into the ceiling mount section. If done correctly, you will hear a click as it locks into place.

• VN-V686WPBU (Eg.: Wall mount installation)









 Easy Maintenance and Replacement

VN-V685/V686's plug-and-play design makes maintenance easy too. You can replace only the camera unit with the base unit remaining attached. All preset settings will resume so that you can minimize operation downtime due to maintenance.



To remove, press the Lock buttons located on both sides of the camera to release the locks, then pull the camera straight down.



## Ecology-Conscious PoE for Saving Power and Costs

Built-in PoE (Power over Ethernet) allows the camera to be activated through a LAN cable connection. Both power supply and video transmission are covered by a single cable, reducing costs for cables, installation, and power. With a power consumption 30% lower than conventional models, the VN-V685/V686 Series can minimize impact on the environment.



## Full-featured intelligent security camera for a variety of environments

## **Progressive Output for Clearer Images**

The VN-V685/V686 series progressive output images are optimal for monitoring on LCD or TFT monitors. You can obtain jaggy-free noiseless images even for moving objects.





Progressive Output

#### Interlaced Output

## Easy Wide-D Function for backlight compensation

This function is equivalent to the conventional Wide Dynamic Range function, allowing pictures to be adjusted to identify details of the subject by adjusting gamma curve even in difficult backlit conditions.



Normal picture

Adjusted with Easy Wide-D

## IR Cut Filter for Round-the-Clock Surveillance

The IR cut filter automatically switches between ON and OFF according to the level of ambient light. In daytime it outputs a highquality colour image, and at night the filter mechanism removes the IR filter to output black-and-white images with greater sensitivity. (When utilising IR lamps, an external trigger for night mode is recommended.)

## Privacy Mask for Protecting Intrusive Monitoring

Up to 8 masked areas can be set as hidden areas to protect subjects from invasion of their privacy.





Without Privacy mask

With Privacy mask

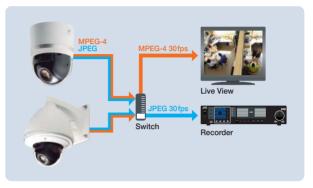
## Proven Reliability with JVC Standard

Assurance of reliability comes not only from JVC's long years of experience and solid track record, but also by inspecting every single product at our QC facility based on our strict quality standards. For all models, this includes grueling tests for Pan/Tilt and Zoom in/out movement accuracy, and for the outdoor model, severe tests against water, dust, and shocks are applied to ensure stable performance that conforms to the IP66 Standard.



## MPEG-4/Motion JPEG Full-Frame Dual Stream

The VN-V685/V686 series can stream both MPEG-4 and Motion JPEG VGA images simultaneously at the full frame rate (30fps for each stream). MPEG-4 distribution is ideal where monitoring with smooth, high frame rate images is required within a limited bandwidth. Motion JPEG images are useful when you need to record images as evidence data, because of the high quality still pictures it can provide.



## Electronic Sens-Up for Low-Light Situations

Electronic sense up function provides higher sensitivity level for monitoring in dark locations by lengthening the exposure time automatically.

## CRT/LCD Selectable Display Mode

By choosing the display mode that matches the monitor being used, you'll get images with optimal brightness regardless of whether you are using a CRT or LCD monitor.

### Image Stabilizer

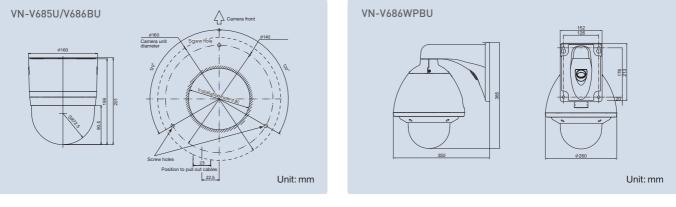
Even in cases where the camera is shook by the wind or vibrations coming from its surroundings, the Image Stabilizer function helps reduce image blur. This function is invaluable in outdoor setups, such as Pendant mount style installations which are especially susceptible to the effects of vibrations.

## Motion Detection and Tracking

This function outputs an alarm whenever movement is detected within a pre-specified area of the image. It can also be used to automatically track a moving object or person.



#### Dimensions



#### Specifications

		VN-V685U	VN-V686BU	VN-V686WPBU		
Image device	9	1/4" IT CCD				
	Zoom ratio 27x optical and 32x digital 36x optical and 32x digital					
	Focal length	f=3.43mm to F=92.6mm	f=3.43mm to f=122mm			
Lens	Max. aperture ratio	F1.6 (WIDE) to F3.5 (TELE)	F1.6 (WIDE) to F4.5 (TELE)			
20.10	Max. close-range	Approx. 1.8m (TELE), Approx. 0.6m (WIDE)				
	Focus	Manual/Easy AF/One push AF				
Day/Night	10000	Automatic Day/Night IR cut filter				
Day/Hight	Color	1.0 lx (50%, AGC SUPER)				
Minimum		0.5 lx (25%, AGC SUPER)				
illumination	B&W	0.08 lx (50%, AGC SUPER)				
murmation	Davv	0.04 lx (25%, AGC SUPER)				
Pan/Tilt rang		Pan: 360° endless / Tilt: -5° to 185°				
Pan/Tilt speed		0.04° to 400°/sec				
Picture compression		Motion JPEG				
		MPEG-4: Part2 (ISO/IEC 14496-2), Profile: SP				
Picture resolutions		640x480, 320x240				
		Up to 30 fps per each stream of Motion JPEG and MPEG-4 in 640x480 resolution				
Frame rate and streaming		simultaneously (Full frame dual stream)				
Compression levels		JPEG: Variable (VFS) 7 levels / Average (AFS) VGA (10KB – 100KB), QVGA (3KB – 33KB)				
		MPEG-4: Constant (CBR) / Variable (VBR), Bit rate adjustable 64kbps – 8000kbps				
Image settings PTZ function		Configurable AGC, Sens-up, Day/Night, Shutter speed, BLC, ALC, White balance				
		(ATW/AWC), Gamma curve, Black level, Enhance range, Color level, Exposure value,				
		Noise reduction, Monitor type, Privacy mask (8 areas), Image stabilizer 100 preset positions, Auto flip, Auto pan, Auto trace, Auto patrol, Auto return, Motion detect,				
		100 preset positions, Auto flip, Auto pan, Auto trace, Auto patrol, Auto return, Motion detect, Auto tracking				
Shutter spee	d	Auto tracking 2.1sec (Sens-up) to 1/10000 s	000			
	0					
Security		3 levels password, IP address		or setting)		
Max. clients		20 simultaneous users, Unlimi		<u></u>		
Alarm/Event	management	Trigger: Built-in motion detection, External alarm input x 2 or Schedule				
		Event: Pre/post recording , FTP sending, Notification over TCP/UDP, E-mail,				
		External output x 2, Periodic FTP and Preset position, Pre/Post alarm buffer of 8MB				
Connectors		RJ-45 for Ethernet 10Base-T/100Base-TX				
		Terminal block for 2 alarm imput, 2 output				
		Alternative power connection		10.00		
	ter protection	-		IP66		
Power		24 VAC (50Hz/60Hz), 1.2A		24 VAC (50Hz/60Hz), 2.2A		
		48 VDC (PoE, IEEE802.3af cla	ass0), 12.95W	(With heater)		
				48 VDC (PoE, IEEE802.3af		
				class0), 12.95W (Without heater)		
Operating te	mperature	-10°C to 50°C/14°F to 122°F		-40°C to 50°C /-40°F to		
		(0°C to 40°C /32°F to 104°F n	recommended)	122°F, always power on		
				( 0°C to 40°C/32°F to		
				104°F recommended)		
	nd maintenance	Web based setting tool, Camera search tool, Firmware update over HTTP				
	led operating	OS: Windows Vista Business (		/Home (SP2)		
environment		CPU: Pentium4 2GHz, Memory: 1GB, HDD space: 512MB				
		Display and video card: 1024x768 True color (24bit or 32 bit), VRAM 8MB				
		Browser: IE7.0 for Windows Vista, IE6.0 for Windows XP				
System integration support		Open API for application integration, ActiveX Viewer, QoS, Embedded Linux				
		operating system				
Supported protocols		TCP/IP, UDP/IP, HTTP, FTP, ICMP, ARP, RTP, DHCP, SNTP, SMTP, DSCP, IGMP,				
		IPv6, VSIP, AMX Device Discovery				
Video manag		VR-N900U/1600U/1600E: JVC Network video recorder for viewing, recording and				
software/har	dware (Not included)	archiving up to 9/16 cameras				
		VN-RS800U: JVC free video management software for viewing, recording and				
		archiving up to 32 cameras (JPEG stream only)				
				=000ares (is al. have is a)		
Dimensions	(WxHxD)	ø160mm x 201mm (H)		ø260mm (incl. housing) x		
Dimensions	(WxHxD)	ø160mm x 201mm (H)		385mm (H: incl. bracket) x		
Dimensions (	(WxHxD)	ø160mm x 201mm (H)				



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