Panasonic

Super Dynamic HD Network Camera WV-SPN311 WV-SPN310



HD / 1,280 x 720 60 fps H.264 Network Camera featuring Super Dynamic

Key Features

- 720p HD images up to 60 fps*1
- Approximate 1/3 inches, high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- Enhanced Super Dynamic^{*1} and ABS (Adaptive Black Stretch) technologies deliver **133 dB** wider dynamic range compared to conventional cameras.
- Multi process NR & 3D-DNR ensures noise reduction in various conditions.
- High sensitivity with Day & Night (IR) function (WV-SPN311 only) : 0.01 lx (Color), 0.003 lx (B/W) at F1.4
- ABF (Auto Back Focus) ensures easy installation. (WV-SPN311 only)
- VIQS (Variable Image Quality on Specified area) technology allows the designated **eight areas** to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- Cropping function enables to provide whole image and the part image simultaneously.

Up to 4 image capture areas can be specified, and it is also possible to control the sequence.

- Face Super Dynamic technology ensures clear face image.
- Electronic sensitivity enhancement: Auto (Up to 16/30s) / OFF
- Selectable light control modes :
- **Outdoor scene,Indoor scene (50 Hz) / Indoor scene (60 Hz),Fix shutter** Indoor scene (50 Hz/60 Hz) : Flicker caused by fluorescent lightning will be automatically compensated.
- 2x, 4x digital zoom controlled by browser
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 8 private areas, such as house windows and entrances/exits.
- Camera title display : Up to 20 alphanumeric characters on the browser
- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic alarm protocol output.

- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site. (WV-SPN311 only)
- JPEG Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control : One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- Face detection function detects the position of human face and the information is sent by XML or video stream. (Extension Software)
- Can be added new intelligent extension software in addition to built-in VMD (Video Motion Detection), alarm function.
- Fog compensation function equipped as standard.
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination. (WV-SPN311 only)
- H.264 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Internet mode : H.264 images can be transmitted over HTTP protocol.
- Multi-language : English / Italian / French / German / Spanish /
 Portuguese / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- HLC (High Light Compensation) : If a bright light source such as car headlights points in the direction of a camera, the camera corrects for strong lights and their surroundings to provide clear images of the areas.
- Onvif compliant model

*1 Super Dynamic function is automatically set off on 60 fps mode

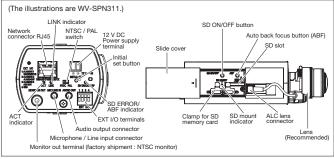
Specifications

Spec		ations	
- Camera	Image		Approx. 1/3 type MOS image sensor, Built-in primary color filter
	Effective Pixels		Approx. 1.3 mega pixels
	Scanning Mode		Progressive scan
	Scanning Area Minimum Illumination		5.38 mm (H) x 3.02 mm (V) {7/32 inches(H) x 1/8 inches(V) } SPN311
		In numination	Color: 0.01 lx, BW: 0.003 kr (F1.4, Maximum shutter : Max.: Off(1/30s),Gain : On(High)) Color: 0.0007 lx, BW: 0.0002 kr (F1.4, Maximum shutter : Max.16/30s,Gain : On(High))*1
			SPN310 Color : 0.01/x, BW : 0.008 /x (F1.4, Maximum shutter : Max.: Off(1/30s),Gain : On(High))
	White Balance		Color : 0.0007 kx, BW : 0.0005 kx (F1.4, Maximum shutter : Max.16/30s,Gain : On(High)) ¹¹ AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)
	Light Control Mode		Outdoor scene, Indoor scene (50 Hz) / Indoor scene (60 Hz) : ELC / Fix shutter
	Shutter Speed		[1.3 mega pixel [16 : 9] (60 fps mode)] OFF(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000,1/10000
			Other than [1.3 mega pixel [16 : 9] (60 fps mode)] OFF(1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250,1/500, 1/1000, 1/2000, 1/2000, 1/2000
	Super Dynamic*2		1/1000, 1/2000, 1/4000, 1/10000 On(High) / On(Normal) / Off
	Face Super Dynamic		On/Off (only when Super Dynamic : On)
	Adaptive Black Stretch		On/Off (only when Super Dynamic : Off)
	Fog compensation High light compensation (HLC)		On/Off (only when Super Dynamic / Adaptive black stretch : Off) On/Off (only when Super Dynamic / Back light compensation : Off)
	AGC		On (Low) / On (Mid) / On (High) / Off
	Maximum shutter		max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/120 s, max. 2/120 s, max. 1/100 s, max. 2/100 s, max. 1/60 s, max. 1/30 s, max. 2/30 s,
	Day & Night		max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s WV-SPN311(IB) : Off/On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Dynamic Range		WV-SPN310(Electrical) : On/Off 133 dB typ. (Super Dynamic : On)
	Digital Noise Reduction		High / Low
	Video Motion Detection Privacy Zone		On/Off, 4 areas, Sensitivity : 15 steps, Detection size : 10 steps On/Off (up to 8 zones available)
	VIQS		On/Off (up to 8 zones available)
	Camera Title (OSD)		On/Off, Up to 20 characters (alphanumeric characters, marks)
Browser		cus (WV-SPN311 only)	Auto/ Preset/ Fix Off / JPEG(1) / JPEG(2) / JPEG(3) / H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all)
GUI	Cropping		Alarm action : On/Off
			Up to 4 image capture areas can be specified
		a Control	Brightness, AUX On/Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
	Display Mode		screens or 16 split screen (JPEG only). 20 characters camera title available.
	Digital Zoom		1x, 2x, 4x controlled by browser GUI
	Clock E		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset
	Alarm Control One Shot Capture		A still picture will be displayed on a newly opened window.
	Audio		Mic (Line) Input : On/Off Volume adjustment : Low / Middle / High
	SD Memory Data Download		Audio Output : On/Off Volume adjustment : Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card
	GUI / Setup Menu Language		can be downloaded. English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	System Log		Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
	Supported OS *3		Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 7, Microsoft® Windows Vista®
	Supported Browser		Windows® Internet Explorer® 11 (32-bit)
			Windows [®] Internet Explorer [®] 10 (32-bit)
			Windows [®] Internet Explorer [®] 9 (32-bit) Windows [®] Internet Explorer [®] 8 (32-bit)
			Windows® Internet Explorer® 7 (32-bit)
Network	Network		10Base-T / 100Base-TX, RJ45 connector
	Image	Image Capture Mode: 1.3 mega pixel [16:9] (30/60fps)	1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
	nesolution	Image Capture Mode: 1.3 mega pixel [4:3] (30fps)	1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
		Transmission Mode Frame Rate	Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 /
	H.264		6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 kbps
	*4	Image Quality	Constant bit rate, Best effort : Low(Motion priority) / Normal / Fine(Image quality priority)
		Refresh interval	VBR : 0 Super fine / 1 Fine / 2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s
			U.270.2570.3370.57172737475s
		Transmission Type	
		Image Quality	10 steps
	JPEG	Image Quality Refresh interval	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)
		Image Quality Refresh interval Transmission Type	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push
	Audio (Image Quality Refresh interval Transmission Type Compression	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5
	Audio (Audio M Authen	Image Quality Refresh interval Transmission Type Compression Mode tication for Audio	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users
	Audio (Audio M Authen Bandw	Image Quality Refresh interval Transmission Type Compression Mode tication for Audio idth control	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited
	Audio (Audio M Authen Bandw	Image Quality Refresh interval Transmission Type Compression Mode tication for Audio	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP
	Audio (Audio M Authen Bandw	Image Quality Refresh interval Transmission Type Compression Vode tication for Audio dith control ted Protocol	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Puil / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SMMP,
	Audio M Audio M Authen Bandw Suppor	Image Quality Refresh interval Transmission Type Compression Vode tication for Audio dith control ted Protocol	10 steps 0.1 fps - 30 fps (JPEG trame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'S Off / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPAP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional
	Audio (Audio N Authen Bandw Suppor	Image Quality Refresh interval Transmission Type Compression Vode tication for Audio dth control ted Protocol	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UP-N, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions)
	Audio (Audio N Authen Bandw Suppor	Image Quality Refresh interval Transmission Type Compression Mode tication for Audio dith control ted Protocol ent Simultaneous Users SDHC/SD	10 steps 0.1 fps - 30 fps (JPEG trame rate will be restricted when displaying both JPEG and H.264 images.) Puil / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Flaif duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,046 / 4,096 / 6,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available). Up to 14 users (Depends on network conditions) H.264 recording : Manual REC / Alarm REC (Pre/PS) / Schedule REC /
	Audio (Audio M Authen Bandw Suppor FTP Clie No. of S SDXC/S Memor	Image Quality Refresh interval Transmission Type Compression Mode tication for Audio dith control ted Protocol ent Simultaneous Users SDHC/SD y Card (Option) ctured by Panasonic	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP DHCP, UDS, DDNS, NTP, SNMP, UP-P, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network rafilure Compatible JPEG recording : Manual REC / Alarm REC (Pre/Post) /
	Audio (Audio N Authen Bandw Suppor FTP Clie No. of S SDXC/S Memor * Manufa (SD spe * Use the	Image Quality Refresh interval Transmission Type Compression Mode tication for Audio dith control ted Protocol ent Simultaneous Users SDHC/SD y Card (Option) curred by Panasonic ed class 4 or higher) Bo memoy card that	10 steps 0.1 fps - 30 fps (JPEG trame rate will be restricted when displaying both JPEG and H.264 images.) Puil / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Flail duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 2.048 / 4.096 / 8.192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP IPv4 : TCP/IP, UDP/IP, HTTP, STSP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPNP, IGMP, ICMP, ARP IPv4 : TCP/IP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available.) Up to 14 users (Depends on network failure Compatible JPEG recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible
	Audio (Audio I Authen Bandw Suppor FTP Clie No. of S SDXC/3 Memor * Manufa (SD spo * Use the complies (Ultra hig	Image Quality Refresh interval Transmission Type Compression Vode tication for Audio dth control ted Protocol ent Simultaneous Users SDHC/SD y Card (Option) cctured by Panasonic eclass 4 or higher)	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC'5 Off / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 or higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP DHCP, UDS, DDNS, NTP, SNMP, UP-P, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network compatible JPEG recording : Manual REC / Alarm REC (Pre/Post) /

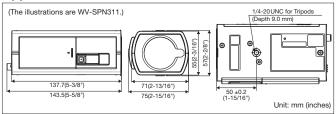
Network	Cellular Phone Compatibility	JPEG image, AUX control (by access level)
	Mobile Terminal Compatibility*6	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android [™] Terminal
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification
		Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC/SDHC/SD memory card : Up to 50,000 logs for each SD memory card
Schedule	Schedule mode	Alarm permission / VMD permission / Access permission / H.264 recording /
		Audio detection permission / Scene file / FTP periodic image transmission
Input/	Monitor Output	VBS: 1.0 V [p-p] / 75 Ω, composite, RCA jack
Output	(for adjustment)	An NTSC or PAL signal can be outputted from camera.
		(use the selector switch or software to select either NTSC or PAL signal).
	Microphone Input	ø3.5 mm monaural mini jack
	(WV-SPN311 only)	Input impedance : Approx. 2 kΩ (unbalanced)
		Recommended applicable microphone : Plug-in power type
		Supply voltage : 2.5 V ±0.5 V
		Recommended sensitivity of microphone : -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz
	Built-in microphone	Electret condenser microphone
	(WV-SPN310 only)	
	Line Input	Input level : Approx. –10 dBV
	(WV-SPN311 only)	
	Audio Output	ø3.5 mm stereo mini jack (monaural output)
	(WV-SPN311 only)	Output impedance : Approx. 600 Ω (unbalanced)
		Output level : -20 dBV
	External I/O Terminals	WV-SPN311 : ALARM IN 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT),
		ALARM IN 3 (AUX OUT)
		WV-SPN310 : ALARM IN 1, ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT)
General	Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
	EMS	FCC (Part15 ClassA), ICES-003 ClassA, EN 55032 ClassB, EN55024
	Power Source and	WV-SPN311 : DC 12 V : 350 mA / Approx. 4.2 W
	Power Consumption	PoE DC 48 V : 140 mA / Approx. 6.8 W (Class 2 device)
		WV-SPN310 : DC 12 V : 310 mA / Approx. 3.8 W
		PoE DC 48 V : 120 mA / Approx. 5.8 W (Class 2 device)
	Ambient Operating Temperature	-10°C ~ +50°C (14 °F ~ 122 °F)
	Ambient Operating Humidity	20 ~ 90 % (no condensation)
	Dimensions	75.0 mm (W) x 57.0 mm (H) x 143.5 mm (D)
		{2-15/16 inches (W) x 2-1/4 inches (H) x 5-21/32 inches (D)}
		(excluding lens / power cord plug)
	Mass (approx.)	WV-SPN311 : Approx. 400 g {0.88 lbs}
	excluding lens	WV-SPN310 : Approx. 370 g {0.82 lbs}
	Finish	Main body : PC / ABS resin (Sail white)
	1	

⁶ Traismission to 4 streams can be individually set.
 ⁷S When recording audio on an SD memory card, only AAC-LC (Advanced Audio Coding - Low Complexity) can be used.
 ⁶ For further information about compatible devices, refer to our website (http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions



Appearance



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Important - Safety Precaution: Carefully read the Important Information, Installation Guide and operating

instructions before using this product. Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

Masses and dimensions are approximate.
 Specifications are subject to change without notice.



http://security.panasonic.com

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