

Super Dynamic HD Weatherproof Network Camera WV-SPW311AL



*i-VMD Type2: Intruder Detection / Loitering Detection / Direction Detection / Scene Change Detection / Object Detection / Cross Line Detection

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

Key Features

- 720p HD images up to 60 fps*1
- Approximate 1/3 inches, high sensitivity MOS image sensor
- Multiple H.264 (High profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Maximum Screen Size is 1,920 x 1,080* @30 fps, H.264
 Used by super resolution techniques
- Enhanced Super Dynamic^{*1} and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.
- Smart coding Technology: Group of Pictures (GOP) control function removes
 unnecessary information from the frame for realizing efficient encoding.
 With the latest bitrate reducing technology, GOP control,
 3D-MNR(Multi process Noise Reduction) and FDF(Frequency Divided Filter),
 the network bandwidth and the disk space of recorder can be saved.
- High sensitivity with Day/Night (ICR*) function:
 0.02 lx (Color), 0.01 lx (B/W) at F1.6
 *ICR: IR Cut filter Removal
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- IR LED is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- ABF (Auto Back Focus) ensures easy installation.
- Newly developed lens with aperture control function realizes the best focus in any environment.
- 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.
- Lens distortion compensation for the distorted images can be adjusted 256 steps.
- 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 extra optical zoom at 640 x 360 resolution
- 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.
- 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.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (H.264 / JPEG). Realize long-term recording and auto backup function.
- 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.
- HLC (High Light Compensation) technology reduces strong light sources such as vehicle headlights to prevent camera being blinded.
- SCC (Super Chroma Compensation) function realizes a better color reproducibility even in low illumination.
- 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.
- ONVIF compliant model
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.
- Dehumidification device for use with various weather conditions
- *1 Super Dynamic function is automatically set off on 60 fps mode.

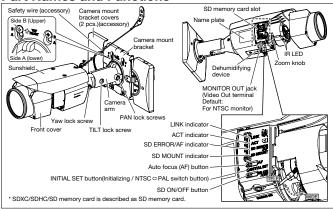
Camera			
	Image S	Sensor	Approx. 1/3 type MOS image sensor
	Scannir	ng Mode	Progressive scan
	Scannir		4.86 mm (H) x 3.89 mm (V) {3/16 inches (H) x 5/32 inches (V)}
	Minimu	m Illumination	Color: 0.02 lx, BW: 0.01 lx (F1.6, Maximum shutter: Max. 1/30s, Gain: On(High))
			BW: 0 lx (F1.6, Maximum shutter: Off(1/30 s), Gain: High, when the IR LED is lit) Color: 0.005 lx, BW: 0.0007 lx (F1.6, Maximum shutter: Max. 16/30s, Gain: On(High))*1
	IR I FD	Light	Off / Auto(High / Mid / Low)
	IR LED Light IR LED irradiation distance		Approx. 30 m {98.43 feet}
	White Balance Light Control Mode Shutter Speed		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
			Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter
			[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,
	Super Dynamic *2		1/1000, 1/2000, 1/4000, 1/10000 On(High) / On(Normal) / Off
	Super Dynamic *2 Face Super Dynamic		On / Off (only when Super Dynamic : On)
	Adaptive Black Stretch		On / Off (only when Super Dynamic : Off)
	Fog compensation		On / Off (only when Super Dynamic / Adaptive black stretch : Off)
	High light compensation(HLC)		On / Off (only when Super Dynamic / Adaptive black stretch : Off)
	AGC		On (Low) / On(Mid), On(High) / Off
	Maximum shutter		max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s, max. 2/100 s, max. 1/120 s
	D. Al. 11402		max. 2/120s, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
	Day/Night (ICR) Dynamic Range		Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
		Noise Reduction	133 dB typ. (Super Dynamic : On)
		Motion Detection	High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy		Up to 8 zones
	VIQS		Up to 8 zones
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Focus Adjustment		ABF / MANUAL (Html only)
		stortion Compensation	256 steps
Lens	Vari Focal Length		2.8 mm - 10 mm {1/8 inches - 13/32 inches}
	Angulai	Field of View	[16:9 mode] Horizontal: 28 ° (TELE) - 102 ° (WIDE)
			Vertical : 16 ° (TELE) - 55 ° (WIDE)
			[4:3 mode] Horizontal: 28 ° (TELE) - 102 ° (WIDE) Vertical: 21 ° (TELE) - 74 ° (WIDE)
	Maximu	ım Aperture Ratio	1 : 1.6 (WIDE) - 1 : 3.4 (TELE)
		ng Range	0.3 m - ∞
		Ceiling mounting	Horizontal: ±180° (PAN rotation part)
(Camera mou	int bracket)		Vertical : 0° to 90° (TILT rotation part)
			Yaw : -190° to +100° (YAW rotation part)
		Wall mounting	Horizontal: ±90° (TILT rotation part)*
			Vertical : ±90° (TILT rotation part)* Yaw : -190° to +100° (YAW rotation part)
Browser	Croppir	l .	Off / JPEG(1) / JPEG(2) / JPEG(3) / H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all
GUI	Огорра	19	Alarm action On / Off
	Camera Control Display Mode		Brightness, AUX On/Off
			Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
			screens or 16 split screen (JPEG only). 20 characters camera title available.
	Digital Zoom		1x, 2x, 4x controlled by browser GUI
	Camera		Up to 20 alphanumeric characters
	Clock Display Alarm Control		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual) Reset
		ot Capture	A still picture will be displayed on a newly opened window.
	Audio	or oupraro	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
	7.00.0		Audio Output : On / Off Volume adjustment : Low / Middle / High
	SD Memory Data Download		
	GUI / Setup Menu Language		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded.
		etup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	GUI / Se System	etup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal)
	System	etup Menu Language Log	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log
	System	etup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SDX/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8,
	System	etup Menu Language Log ted OS *3	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®
	System	etup Menu Language Log	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SDX/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8,
	System	etup Menu Language Log ted OS *3	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8, 1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),
Network	System Suppor Suppor	etup Menu Language Log ted OS *3 ted Browser	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8, 1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Nista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 108ase-T / 100Base-T / 10
Network	System Suppor Suppor	etup Menu Language Log ted OS "3 ted Browser	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 100 (Internal) Up to 100 (Internal) Up to 100 (Internal) Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 1848 Microsoft® Windows® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 19 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector •1.3 mega pixel [16: 9] (30/60 fps)
Network	System Suppor Suppor	etup Menu Language Log ted OS *3 ted Browser	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 100 (Internal) Up to 100 (Internal) Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 18, Microsoft® Windows® 7, Microsoft® Windows® Internet Explore® 10 (32 bit), Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 16 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
Network	System Suppor Suppor	etup Menu Language Log ted OS *3 ted Browser	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (ISDXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, FJ45 connector 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 1.3 mega pixel [16: 3] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 1.3 mega pixel [16: 3] (30 fps)
Network	System Suppor Suppor	etup Menu Language Log ted OS *3 ted Browser	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8.8, Microsoft® Windows® 18.8, Microsoft® Windows® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T /
Network	System Suppor Suppor	etup Menu Language Log ted OS *3 ted Browser	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 100 (Internal) Up to 100 (Internal) Up to 100 (Internal) Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 18, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base=T / 100Base=TX, RJ45 connector *1.3 mega pixel [16:9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4:3] (30 fps) 1,280 x 960 / 800 x 800 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [16:9] (30 fps mode) * Used by super resolution techniques
Network	System Suppor Suppor	etup Menu Language Log ted OS *3 ted Browser	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (ISDXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 18, Microsoft® Windows® 18, Microsoft® Windows® 18, Microsoft® Windows® 18, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [16: 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2)
Network	System Suppor Suppor	etup Menu Language Log ted OS *3 ted Browser	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 100 (Internal) Up to 100 (Internal) Up to 100 (Internal) Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 18, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base=T / 100Base=TX, RJ45 connector *1.3 mega pixel [16:9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4:3] (30 fps) 1,280 x 960 / 800 x 800 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [16:9] (30 fps mode) * Used by super resolution techniques
Network	System Suppor Suppor	ted OS '3 ted OS '3 ted Browser is IF Resolution	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 18. Microsoft® 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), Safari, Google Chrome, Mozilla Firefox 10Base-T / 10DBase-TX, RJ45 connector •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [16 : 9] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •2 mega pixel [16 : 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 H.264(4) 640 x 360 / 320 x 180 / 160 x 90
Network	System Suppor Suppor	ted OS '3 ted Browser IF Resolution	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8.8, Microsoft® Windows® 7. Microsoft® Windows Vista® Microsoft® Windows® 1.1, Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 bit), Windows® Internet Explorer® 13 (32 bit), Windows® Internet Explorer® 16 (32 bit), Windows® Internet Explorer® 18 (32 bit), Windows® Intern
Network	System Suppor Suppor	tup Menu Language Log ted OS '3 ted Browser tel Browser tel Freesolution	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (BSXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [16: 9]30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 173 / 5 / 7.5 s / 10 / 12 / 15 / 20 / 30 / 60 fps
Network	Suppor Suppor Network Image F	ted OS '3 ted Browser IF Resolution	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Nations oft® 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), Safari, Google Chrome, Mozilla Firefox 10Base-T / 10DBase-TX, RJ45 connector •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [16 : 9] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •2 mega pixel [16 : 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 /
Network	Suppor Suppor Suppor Network Image F	ted OS '3 ted OS '3 ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows Vista® Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safan, Google Chrome, Mozilla Firefox 10Base-T / 1
Network	Suppor Suppor Network Image F	tup Menu Language Log ted OS '3 ted Browser ted Browser tel Fresolution Transmission Mode Frame Rate Bit Rate/Client Image Quality	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (BNXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 8, Microsoft® Windows® 18, Microsoft® Windows® 18 windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 20 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [16: 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,556 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960 fkbps Image quality (Constant bit rate / Best effort) :
Network	Suppor Suppor Suppor Network Image F	ted OS '3 ted OS '3 ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows Vista® Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 12 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safan, Google Chrome, Mozilla Firefox 10Base-T / 1
Network	Suppor Suppor Suppor Network Image F	tup Menu Language Log ted OS '3 ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rate/Best effort)	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8.8, Microsoft® Windows® 7, Microsoft® Windows® Nista® 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), Safari, Google Chrome, Mozilla Firefox 10Base-T / 10DBase-TX, RJ45 connector •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [16 : 9] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •2 mega pixel [16 : 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 H.264(4) 63 030 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12.288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960 kbps Image quality (Constant bitrate / VBR est effort) :
Network	Suppor Suppor Suppor Network Image F	ted OS '3 ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (constant bit rate/Best effort) Refresh interval	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8.8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 13 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 16 (32 bit), Windows® Internet Explorer® 17 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 10DBase-TX, RJ45 connector •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •2 mega pixel [16 : 9] (30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 H.264(3), H.264(4) 640 x 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 80 / 80 / 80 / 24,576 / 30720 / 40960 kbps Image quality (Constant bitrate / VBR / Best effort / Lage quality (Constant bitrate / VBR / Best effort / Rest effort / Normal / Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 1 / 00 steps
Network	Suppor Suppor Suppor Network Image F	tup Menu Language Log ted OS '3 ted Browser ted Browser ted Browser transmission Mode Frame Rate Bit Rate/Client Image Quality Constant bit rate/Past effort) Transmission Type Image Quality Refresh interval Transmission Type Image Quality Refresh interval	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (BSXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® (Windows® 8.1, Microsoft® Windows® 8.8), Microsoft® Windows® 18, Microsoft® Windows® Internet Explorer® 10 (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), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [16: 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 H.264(3), H.264(4) 640 x 360 / 320 x 180 / 160 x 90 Constant Ditrate / VBB f. Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,383 / 16,384 / 2,480 / 2,487 / 30720 / 4,0960 * kbps Image quality (Constant bit rate / Best effort) : Low(Motion priority) / Normal/ Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 0.1 sps. 30 ps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.
Network	Suppor Suppor Suppor Networker Image F	tup Menu Language Log ted OS '3 ted Browser ted Browse	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (ISNX/ISDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 18 Microsoft® Windows® 18 Microsoft® Windows® 18 Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector •1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [4: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [16: 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 1,638 / 2,0480 / 24,576 / 307207 40960* kbps Image quality (Constant bit rate / Best effort) : Low(Motion priority) / Normal/ Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 0.5 / 1/2 / 3 / 4 / 5s Unicast / Multicast 10 steps 0.1 fps 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.
Network	System Suppor Suppor Suppor Network Image F	ted Browser Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rale/Best effort) Refresh interval Transmission Type Image Quality Refresh interval Transmission Type	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 13 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 19 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-T / 100Base-T / 132 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-T / 100Bas
Network	Suppor Suppor Suppor Network Image F	tup Menu Language Log ted OS '3 ted Browser ted Browse	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (BNXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 18.1, Microsoft® Windows® 18.2 Microsoft® Windows® 18.2 Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [6: 9](30 ps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 800 / 300 x 100 / 600 x 90 *1.28 (30 x 900 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 900 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,2 x 900 / 640 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,2 x 900 / 640 x 300 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,2 x 900 / 640 x 300 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fp
Network	Suppor Suppor Network Image F H.264 '4 JPEG Audio O Audio O Authen	tup Menu Language Log ted OS '3 ted Browser IF- Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rate/Best effort) Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Mode Lication for Audio	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 17 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector •1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •2 mega pixel [16: 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7,5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960 *kbps Image quality (Constant bit trate / Best effort) : Low(Motion priority) / Normal/ Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 150 / 12 / 12 / 3 / 4 / 5s Unicast / Multicast 10 steps 0.1 fps 30 /ps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Network	Suppor Suppor Suppor Network Image F H.264 4 JPEG Audio N Authen Authen	ted Description of the Residual Reference of the Residual Reference of the Residual Reference of the Residual Reference of the Reference of th	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Nista® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •2 mega pixel [16 : 9] (30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 H.264(3), H.264(4) a 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960 kbps Image quality (Constant bitrate / VBR / Best effort) : Low(Motton priority) / Normal/ Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps 0.1 fps - 30 fps (PFG frame rate will be restricted when displaying both JPEG and H264 images Pulli / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,044 / 4,096 / 8,192 kbps / Unlimiter 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,044 / 4,096 / 8,192 kbps / Unlimiter 64 / 128 / 256 / 384 / 512 / 768 / 1,044 / 1,044 / 4,096 / 8,192 kbps / Unlimiter 64 / 128 / 256 / 384 / 512 / 768 / 1,0
Network	Suppor Suppor Suppor Network Image F H.264 4 JPEG Audio N Authen Authen	tup Menu Language Log ted OS '3 ted Browser IF- Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rate/Best effort) Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Mode Lication for Audio	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (BNXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 18.1, Microsoft® Windows® 18.1, Microsoft® Windows® 18.1, Microsoft® Windows® Internet Explorer® 19.2 bit), Windows® Internet Explorer® 10.32 bit), Windows® Internet Explorer® 9.82 bit), Windows® Internet Explorer® 8.82 bit), Windows® Internet Explorer® 9.82 bit), Windows® Internet Explorer® 8.82 bit), Windows® Internet Explorer® 7.62 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 960 / 640 x 800 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [6: 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960* kbps Image quality (Constant bit rate / Best effort): Low(Motion priority) / Normal/ Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps 0.1 fps - 30 fs (App CM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC 0ff / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users
Network	Suppor Suppor Suppor Network Image F H.264 4 JPEG Audio N Authen Authen	ted Description of the Residual Reference of the Residual Reference of the Residual Reference of the Residual Reference of the Reference of th	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Nista® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •2 mega pixel [16 : 9] (30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 H.264(3), H.264(4) a 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960 kbps Image quality (Constant bitrate / VBR / Best effort) : Low(Motton priority) / Normal/ Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps 0.1 fps - 30 fps (PFG frame rate will be restricted when displaying both JPEG and H264 images Pulli / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,044 / 4,096 / 8,192 kbps / Unlimiter 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,044 / 4,096 / 8,192 kbps / Unlimiter 64 / 128 / 256 / 384 / 512 / 768 / 1,044 / 1,044 / 4,096 / 8,192 kbps / Unlimiter 64 / 128 / 256 / 384 / 512 / 768 / 1,0
Network	Suppor Suppor Suppor Network Image F H.264 4 JPEG Audio N Authen Authen	ted Description of the Residual Reference of the Residual Reference of the Residual Reference of the Residual Reference of the Reference of th	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) up to 4,000 (SIXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector •1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •2 mega pixel [16: 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 Constant bitrate / VBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 18 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30720 / 40960 *kbps Image quality (Constant bit rate / Best effort) : Low(Motion priority) / Normal/ Fine (Image quality priority) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps 0.1 fps 30 /ps (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 Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,078 / 1
Network	Suppor Suppor Suppor Network Image F H.264 4 JPEG Audio N Authen Authen	tup Menu Language Log ted OS '3 ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality (Constant bit rate/Best effort) Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Aode tication for Audio t Rate ted Protocol	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4,000 (BNXC/SDHC/SD memory when the recording format is set to JPEG.) error log Microsoft® (Windows® 8.1, Microsoft® Windows® 8.1, Microsoft® Windows® 18, Microsoft® Windows® 18, Microsoft® Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari, Google Chrome, Mozilla Firefox 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *2 mega pixel [16: 9](30 fps mode) *Used by super resolution techniques H.264(1), H.264(2) 1,920 x 1,080 / 640 x 360 / 320 x 180 / 160 x 90 H.264(3), H.264(4) 640 x 360 / 320 x 180 / 160 x 90 Constant birate / VBB / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 1,024 / 1,288 / 16,383 / 16,384 / 2,480 / 2,487 / 3,0720 / 4,096 / 6,144 / 8,192 / 1,024 / 1,288 / 1,383 / 1,6384 / 2,480 / 2,487 / 3,0720 / 4,096 / 6,144 / 8,192 / 1,024 / 1,288 / 1,383 / 1,6384 / 2,480 / 2,487 / 3,0720 / 4,096 / 6,144 / 8,192 / 1,024 / 1,288 / 1,383 / 1,6384 / 2,480 / 2,480 / 3,072 / 4,096 / 6,144 / 8,192 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 1,024 / 1,536 / 2,048 / 4,096 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144 / 1,926 / 6,144

Network	SDXC/SDHC/SD	H.264 recording:
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC/ Backup upon network failure Compatible
	* Manufactured by Panasonic	JPEG recording :
	(SD speed class 4 or higher)	Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
	* Use the SD memory card that complies with UHS-1	Compatible SD (SDHC/SDXC) card:
	(Ultra High Speed-1) in the case of	Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB** model
	SD Speed Class 10.	*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image, AUX control (by access level)
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile 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	Alarm / VMD / Access permission / H.264 recording / Scene file
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
Output	(ioi dajaotinont)	(either press the INITIAL SET switch quickly (within 1 second) or
		use software to select either NTSC or PAL signal).
	Microphone/Line Input	ø3.5 mm stereo mini jack
	morophone, zano input	(stereo input) (Applicable microphone: Plug-in power type)
		Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced)
	Audio Output	ø3.5 mm stereo mini jack (stereo output)
	, iddio odipat	Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN), 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
acriciai	FMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and	When IR LED is On
	Power Consumption	DC power supply: DC 12 V / 770 mA / Approx. 9.24 W
	Tower consumption	PoE (IEEE802.3af compliant): DC 48 V / 200 mA / Approx. 9.6 W* (Class 0 device)
		* Maximum power consumption on the camera power input side.
		** ONLY CONNECT DC 12 V CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	-40 °C to +50 °C (-40 °F to 122 °F)
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Water and Dust Resistance	
	Dimensions	95 mm (W) x 99 mm (H) x 334.5 mm (L)
	* Installing using the base bracket	3-3/4 inches (W) x 3-57/64 inches (H) x 1ft 1-11/64 inches (L)}
	_	
	Mass (approx.)	Approx. 1.6 kg {3.5 lbs}
	Finish	Main body : Aluminum die cast, light gray
	1	Front cover section clear part : Clear polycarbonate resin

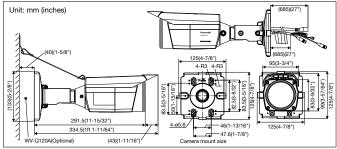
- *1 Converted value
- 2 Super Dynamic function is automatically set off on 60 fps mode.
 3 Refer to *Notes on Windows Vista* / Windows* 7 / Windows* 8 / Windows* 8.1* on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoff* Windows* 8.1. or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

 *4 Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



Trademarks and registered trademarks

- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
 "i-PRO SmartHD" logo is trademark or registered trademark of Panasonic Corporation.
 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
 All other trademarks identified herein are the property of their respective owners.

- 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.

DISTRIBUTED BY:

Panasonic

