Panasonic

Super Dynamic Full HD Dome Network Camera WV-SFN531



Full HD / 1,920 x 1,080 60 fps H.264 Network Camera featuring Super Dynamic

Key Features

- 1080p Full HD images up to 60 fps*1
- Approximate 1/2.8 inches, high sensitivity MOS image sensor
- Super high resolution at Full HD/1,920 x 1,080 created by 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 by enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- Maximum Screen Size is 2,048 x 1,536* @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.
- Multi process NR & 3D-DNR ensures noise reduction in various conditions.
 High sensitivity with Day & Night (ICR)* function:
- 0.07 lx (Color), 0.02 lx (B/W) at F1.7 *ICR: IR Cut filter Removal
- **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/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.
- 3x 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.(Optional)
- Can be added new intelligent extension software(Optional) 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

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



Specifications

Camera			
			Approx. 1/2.8 type MOS image sensor
	Effective Pixels		Approx. 2.4 mega pixels
		ng Mode	Progressive scan
	Scannir	ng Area	5.346 mm (H) x 3.336 mm (V) {7/32 inches(H) x 1/8 inches(V) }
	Minimu	m Illumination	Color: 0.07 lx, BW: 0.01 lx (F1.7, Maximum shutter: Max. 1/30s, Gain: On(High))
			Color: 0.005 lx, BW: 0.0007 lx (F1.7, Maximum shutter: Max. 16/30s, Gain: On(High)) *
	White E		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Light C	ontrol Mode	Outdoor scene : Automatic integration of ALC and ELC
			Indoor scene [50 Hz] : Automatic integration of ALC and ELC with flickerless
			Indoor scene [60 Hz] : Automatic integration of ALC and ELC with flickerless
	Shutter	Speed	[2 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 [2 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, 1/4000, 1/10000
	Super Dynamic*2		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		On / Off (Only when Super Dynamic / Adaptive black stretch: Off)
	AGC		On (Low, Mid, High) / Off
	Electronic Sensitivity UP		max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/120 s, max. 1/100 s,
			max. 1/60 s, max. 1/30 s, max. 2/120 s, max. 2/100 s, max. 2/30 s,
			max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
	Day & Night (ICR)		Off/ On/ Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Dynamic Range		133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
	Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity : 15 steps, Detection size : 10 steps
	Privacy Zone		Up to 8 zones
	VIQS		Up to 8 zones
	VIQS Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Camera Title (OSD) Focus Adjustment		AF / MANUAL
		stortion Compensation	256 steps
Lens	Vari Focal Length		2.8 - 9.5 mm {1/8 inches - 13/32 inches}
	Angular Field of View		[16 : 9 mode] Horizontal : 31.6° (TELE) - 110.4° (WIDE)
	Angular Field of View		Vertical : 17.9° (TELE) - 60.2° (WIDE)
			[4 : 3 mode] Horizontal : 26.8° (TELE) - 91.0° (WIDE)
			Vertical : 19.8° (TELE) - 66.4 (WIDE)
ŀ	Maxim	Im Aperture Ratio	1 : 1.7 (WIDE) - 1 : 3.5 (TELE)
	Maximum Aperture Ratio		0.3 m - ∞
Adjusting	Focusing Range		Horizontal: $\pm 180^\circ$, Vertical: 0-85°,
Aujusting	Angle		
n	Orrenti		Image tilt adjustment range: -100°(Left) to +100°(Right)
	Croppir	ig	H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3)
GUI			Up to 4 image capture areas can be specified
		a Control	Brightness, AUX On / Off
	Display	Mode	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 2		1x, 2x, 4x controlled by browser GUI
	Camera		Up to 20 alphanumeric characters
	Clock E		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
	Alarm (Reset
		ot Capture	A still picture will be displayed on a newly opened window.
	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
			Audio Output : On / Off Volume adjustment : Low / Middle / High
		nory Data Download	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
	System	Log	Up to 100 (Internal)
	Cycloin Log		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,
	Suppor	ted OS *3	
	Suppor	ted OS *3	Microsoft® Windows® 8,
	Suppor	ted OS *3	
	Suppor	ted OS *3	Microsoft® Windows® 8,
			Microsoft® Windows® 8, Microsoft® Windows® 7,
		ted OS *3	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit),
			Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®
			Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit),
			Microsoft® Windows® 8, Microsoft® Windows 7, Microsoft® Windows 7, Microsoft® Windows 13ta® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 8 (32-bit),
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 10, Windows® Internet Explorer® 11 (32-bit), 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)
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Viste® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 10Base-TX, RJ45 connector
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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), Windows® Internet Explorer • (32-bit), • Windows® Internet Explorer • (32-bit),
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 1 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 8 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 10Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-TX / 10Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [4:3] (30 fps)
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Viste® 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® 7 (32-bit), UDBase-T, 100Base-T, 8,145 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1,000 x 1,200 / 1,280 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit), UBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [14:3] (30 fps) 1,600 x 1,200 / 1,280 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps)
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Network	Suppor	ted Browser IF Resolution	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Viste® 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® 8 (32-bit), Windows® Internet Explorer® 8 (32-bit), UDBase-T / 100Base-TX, RJ 45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [14:3] (30 fps) 1,000 x 1,200 / 1,280 x 800 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 2,048 x 1,536' 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 'Used by super resolution techniques
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® 1, Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 8 (22-bit), Windows® Internet Explorer® 7 (22-bit) 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 2,048 x 1,587 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 "Used by super resolution techniques
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	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Viste® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 2,048 x 1,586 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * Jose the explored for the chinques Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps
	Suppor	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® 1, 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) 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [4:3] (30 fps) 1,600 × 1,200 / 1,280 × 720 / 640 × 360 / 400 × 300 / 320 × 240 / 160 × 120 2,048 × 1,536' / 1,280 × 960 / 600 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 ° Used by super resolution techniques Constant Ditrate / 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 / 6,192 / 10,240 / 1,228 / 14,336 / 16,384 / 20,440 / 24,576 kbps
	Suppor Network Image I	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 640 × 460 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [12 / 126 / 20 / 30 / 60 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 151 / 768 / 1,024 / 1,538 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 1,2288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine
	Suppor Network Image I	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Viste® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Uindows® Internet Explorer® 1 (30/60 fps) 1,600 x 1,200 / 1,280 x 960 / 600 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 "Used by super resolution techniques Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 6 / 128 / 266 / 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 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s
	Suppor Network Image I	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1.920 x 1.080 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1.600 x 1200 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 2.048 x 1,536' / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4:3] (30 fps) 2.048 x 1,536' / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * Used by super resolution techniques Constant Ditrate / Framerate pirotify / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 266 / 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 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast
	Suppor Network Image I	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 640 × 460 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,583 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 1,228 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 0.2 / 0,25 / 0,33 / 0,5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps
	Suppor	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1.920 x 1.080 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1.600 x 1200 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 2.048 x 1,536' / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4:3] (30 fps) 2.048 x 1,536' / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * Used by super resolution techniques Constant Ditrate / Framerate pirotify / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 266 / 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 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast
	Suppor Network Image I	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 640 × 460 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,583 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 1,228 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 0.2 / 0,25 / 0,33 / 0,5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps
	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Viste® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UDBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4:3] (30 fps) 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 6 / 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 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 steps 0.1 fps - 30 fps
	Suppor Network Image I H.264 '4	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30/60 fps) 1,800 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 2,048 x 1,585' / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • Used by super resolution techniques Constant Ditrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 4 / 128 / 266 / 384 / 512 / 768 / 1,024 / 1,586 / 2,048 / 3,072 / 4,096 / 6,144 / 8, 1 / 9 z 10,240 / 1,228 / 133 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 10 ateps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images)
	Suppor Network Image I H.264 '4	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UDBase-T / 10DBase-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 2,048 x 1,536 / 1,280 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * Used by super resolution techniques Constant bitrate / 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 kbps Low / Normal / Fine 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), Pull / Push 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AC-LC
	Suppor Network Image I H.264 '4	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1.920 x 1,080 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [14:3] (30/60 fps) 1.600 x 1.200 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 120 • 3 mega pixel [14:3] (30 fps) 2.044 x 1,585' / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • Used by super resolution techniques Constant Ditrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 4 / 128 / 266 / 384 / 512 / 768 / 1.024 / 1.586 / 2.048 / 3.072 / 4.096 / 6,144 / 8, 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast 1 0 ateps 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 Off / Mic (Line) input / Audio output / Interactive (Haif duplex) /
	Suppor Network Image I H.264 '4 JPEG Audio C	ted Browser	Microsoft® Windows® 7, Microsoft® Windows® 7, 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® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UDBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [14:3] (30 fps) 1,600 x 1200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 1,600 x 1200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 1,820 x 1,080 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 10 steps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 151 / 768 / 1,024 / 1,586 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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.) 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)
	Network Image I H.264 -4 JPEG Audio 0 Authen	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Aode tication for Audio	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (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) 10Base-T / 10DBase-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [4:3] (30 fps) 1,900 × 1,080 / 1,280 × 720 / 640 × 360 / 420 × 300 / 320 × 240 / 160 × 120 * 3 mega pixel [4:3] (30 fps) 2,048 × 1,536 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * Used by super resolution techniques Constant Ditrate / 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 / § 1/26 / 33 / 0.5 / 1 / 2 / 3 / 4 / 55 Unicast / Multicast 10 steps 0.1 fps - 30 fps (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)
	Suppor Network Image I H.264 '4 JPEG Audio C	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Aode tication for Audio	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [14:3] (30/60 fps) 1,900 x 1,200 / 1,280 x 960 / 900 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [14:3] (30 fps) 2,046 x 1,587 / 1,280 x 960 / 900 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • Used by super resolution techniques Constant Ditrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 266 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 1 / 3 s = 30 fps Low / Normal / Fine 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 H264 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 / 1,024 / 2,048 / 4,096 / 8,192 kbps /
	Network Image I H.264 '4 JPEG Audio C Audio N Authen Total B	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 10DBase-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 · 2 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 · 2 mega pixel [14:3] (30 fps) 1,800 × 1200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 · Used by super resolution techniques Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 1512 / 768 / 1,024 / 1,588 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,363 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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.) 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 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited
	Network Image I H.264 '4 JPEG Audio C Audio N Authen Total B	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Aode tication for Audio	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® 11 (32-bit), Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [4:3] (30 fps) 1,800 × 1,200 / 1,280 × 720 / 640 × 360 / 400 × 300 / 320 × 240 / 160 × 120 * 3 mega pixel [4:3] (30 fps) 2,048 × 1,536' / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * Used by super resolution techniques Constant Ditrate / 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 / 1,228 / 14,336 / 16,384 / 20,480 / 2,076 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 55 Unicast / Multicast 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 Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 onity / Level 2 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,
	Network Image I H.264 '4 JPEG Audio C Audio N Authen Total B	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), UBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 × 1,080 / 1,290 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [14:3] (30 fps) 1,600 × 1,200 / 1,280 × 960 / 900 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1,200 / 1,280 × 960 / 900 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • Used by super resolution techniques Constant Ditrate / 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 / 81/92 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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) Pul / 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 / 2,048 / 4,096 / 8,192 kbps / Unimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP
	Network Image I H.264 '4 JPEG Audio C Audio N Authen Total B	ted Browser	Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® 1, Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UDBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [4:3] (30 fps) 1,600 x 1200 / 1,280 x 960 / 600 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 - 2048 x 1,537 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 - Used by super resolution techniques Constant bitrate / 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 / 8,182 / 10,240 / 12,288 / 13,263 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 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.) Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Iteractive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unimited 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,
	Network Image I H.264 "4 JPEG Audio I Authen Total B Suppor	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Adde tication for Audio ti Rate ted Protocol	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1.920 x 1,080 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1.800 x 1200 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 fps) 1.800 x 1200 / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * 3 mega pixel [4:3] (30 fps) 2.048 x 1,586' / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * Used by super resolution techniques Constant Ditrate / 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 1 / 9 steps 1 .0 incast / Multicast 1 0 steps 0.1 fps - 30 fps (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) Level 1 onity / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, RTP, MLD, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, STSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SMNP, UPnP, IGMP, IG
	Network Image I H.264 '4 JPEG Audio C Audio N Authen Total B	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Adde tication for Audio ti Rate ted Protocol	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 7, Microsoft® Windows® 11 (32-bit), Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit) 10Base-T / 10DBase-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [14:3] (30/60 fps) 1,800 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,000 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,000 × 1,200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • Used by super resolution techniques Constant Ditrate / 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 / 81/92 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 11 / 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) Pul / 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 / 2,048 / 4,096 / 8,192 kbps / Unimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP

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 Up to 50,000 logs for each SD memory card Schedule Alarm / WID / Access permission / H.264 recording / Scene file nput/ Monitor Output VBS : 1.0 V [p-p]/75 0, NTSC / PAL composite, d3.5mm min jack MONITOR OUT composite, d3.5mm min jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable. 03.5 mm monaural input / Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance. Approx. 2 kΩ (unbalanced) Audio Output 03.5 mm stereo mini jack (monaural output) Output impedance: Approx. 06.00 (unbalanced) External I/O Terminals ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT)	Network	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
* Use the SD memory card (SD speed class 4 or higher), and in the case of SD Speed Class 10, that complex with UHS-1(Ultra High Speed-1). JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backupu upon network failure Compatible SD (SDHC/SDXC) card: Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 46GB** model UHS-1(Ultra High Speed-1). Cellular Phone Compatibility UHS-1(Ultra High Speed-1). *SDHC card, ** SDXC card (except miniSD card and microSD card). Cellular Phone Compatibility UHS-1(Ultra High Speed-1). *SDHC card, ** SDXC card (except miniSD card and microSD card). Alarm Source 3 terminals input, VMD, Command alarm, Audio detection alarm Indication on browser, FTP image transfer, Panasonic protocol output. Alarm Actions 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 d3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input Microphone/Line Input MIC IN and Line IN are selectable, 63.5 mm monaural mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output a3.5 mm stereo mini jack (monaural output) Output ALARM IN 1(DAY/NIGHT IN), ALARM IN 3(AUX OUT). Safety UL (ULG0805.0-1), C-UL (CAN/CSA C22.2 No.60950-1), C.F. (EC60950-1), C-UL (CAN/CSA C22.2 No.60350-1), C.F. (EC60950-1), C-UL (CAN/CSA C22.2 No.60350-1), C.F. (EC60950-1) Safety UL (ULG0805.0-1), C-UL (CAN/CSA C22.2 No.60350-1), C.F. (EC60950-1)		SDXC/SDHC/SD	H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC/
manufactured by Pariasonic (SD Speed class 4 or higher), and in the case of SD Speed class 10, that complies with UHS-1 (Ultra High Speed-1). Backup upon network failure Compatible SD (SDHC/SDXC) card: Panasonic Callular Phone Complex with UHS-1 (Ultra High Speed-1). Compatible SD (SDHC/SDXC) card: Panasonic Callular Phone Complex with UHS-1 (Ultra High Speed-1). Mobile Terminal Complex with UHS-1 (Ultra High Speed-1). 2GB, 4 GB, 4 GB, 4 GB, 4 GB, 2 GB, 4			Backup upon network failure
(SD speed class 4 or higher), and in the case of SD Speed Class 10, that complies with UHS-1(Ultra High Speed-1). SDHC card, ** SDXC card (except miniSD card and microSD card) 2 GB, 4 GB', 8 GB', 16 GB', 32 GB', 64GB** model U-ST-1(Ultra High Speed-1). Cellular Phone Compatibility JPEG image, AUX control (by access level) Mobile Terminal Compatibility JPEG image, AUX control (by access level) Mobile Terminal Compatibility JPEG image, AUX control (by access level) Alarm Source 3 terminals input, VMD, Command alarm, Audio detection alarm Indication on browser, FTP image transfer, Panasonic protocol output Alarm Log With SDX/CSDHC/SD memory card: Up to 50,000 logs for each SD memory card Alarm Log With SDX/CSDHC/SD memory card Monitor Output VBS 1: 10 V [P-p/75 G), NTSC / PAL composite, e3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input/ MIC IN and Line IN are selectable, a3.5 mm monaural impl (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V input impedance: Approx. 2 kΩ (unbalanced) Audio Output a3.5 mm stereo mini jack (monaural output) Output External I/O Terminals ALARM N 1(DA/VINGHT IN), ALARM IN 3(AUX OUT), ALARM IN 3(AUX OUT) External I/O Terminals ALARM N 1(DA/VINGHT IN), ALARM MO 2(ALARM MN 3(AUX OUT), Cle LEGCOBOSCI Power Source and Power Consumption CC operts cupply: DC12 V / 540 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.			JPEG recording : Manual REC / Alarm REC (Pre/Post) /
and in the case of SD Speed Compatible SD (SDHC/SDXC) card: Panasonic Class 10, that complex with 2 GB, 4 GB, 8 GB', 16 GB', 32 GB', 64 GB'' model UHS-1Ultra High Speed-1). *SDHC card, *SDXC card (except miniSD card and microSD card) Cellular Phone Compatibility JPEG image, AUX control (by access level) Mobile Terminal Compatibility Mobile Terminal Compatibility JPEG image, AUX control (by access level) Mobile Terminal compatibility 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 nput/ Monitor Output VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite, (for adjustment) ø3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable .03.5 mm monaural mini jack (monaural output) Audio Output ø3.5mm stereo mini jack (monaural output) Audio Output G3.5 mm stereo mini jack (monaural output) Audio Output ALARIM N 1(DA/NIGHT IN), ALARM IN 2(ALARM OUT), ALARIM IN 3(AUX OUT Audio Outpu			Backup upon network failure
UHS-1(Utra High Speed-1). *SDHC card, ** SDXC card (except miniSD card and microSD card) Cellular Phone Compatibility JPEG image, AUX control (by access level) Mobile Terminal Compatibility JPEG image, AUX control (by access level) Marm Alarm Source 3 terminals input, VMD, Command alarm, Audio detection alarm Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Alarm Log With SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Alarm Log With SDXC/SDHC/SD memory card Schedule Alarm / VMD / Access permission / H.264 recording / Scene file nput/ Monitor Output VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite, (for adjustment) ø3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable. ø3.5mm monaural mini jack Microphone/Line Input MIC IN and Line IN are selectable. ø3.5mm monaural output) Audio Output ø3.5mm streen mini jack (monaural output) Output impedance: Approx. 2 kΩ (unbalanced) AJS mm streen mini jack (monaural output) Audio Output Ø3.5mm streen mini jack (SO0.2 (Los ACS2.2 No 80950-1), CE, IEC60950-1 External V/O Terminals ALARM N 1(DAV/NIGHT IN		and in the case of SD Speed	
Cellular Phone Compatibility JPEG image, AUX control (by access level) Mobile Terminal Compatibility JPEG image, AUX control (by access level) Mobile Terminal Compatibility IPad, IPhone, IPod touch (IOS 4.2.1 or later), Android TM mobile terminals Alarm Source 3 terminals input, VMD, Command alarm, Audio detection alarm Alarm Actions SDXC/SDH(CSD memory recording, E-mail notification, HTTP alarm notification Alarm Log With SDXC/SDH(CSD memory card: Up to 50,000 logs for each SD memory card Up to 50,000 logs for each SD memory card Nonitor Output VBS 1.0 V [P-p)/75 0, NTSC / PAL composite, Monitor Output VBS 1.1 ov [P-p)/75 0, NTSC / PAL composite, Microphone/Line Input MIC IN and Line IN are selectable, a3.5 mm monaural impl. (Applicable microphone: Pug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output external I/O Terminals ALARM IN 1(DAY/NIGHT IN), ALARM IN 3(AUX OUT) Queut time totages, LicESupply: Ocl2 2./ 540 mol / Approx. 6.72 W (Class 2 device) Power Source and DC power supply: DCl2 V / 540 mA / Approx. 6.72 W (Class 2 device) Output OL power supply: Ocl2 V / 540 mA / Approx. 6.72 W (Class 2 device) Power Consumption DC power supply: DCl2 V / 540 mA /		Class 10, that complies with	
Mobile Terminal Compatibility IPad, IPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals Narm Alarm Source 3 terminals input, VMD, Command alarm, Audio detection alarm Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, ITTP alarm motification 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 : Up to 50,000 logs for each SD memory card Schedule Alarm / VMD / Access permission / H.264 recording / Scene file Nonitor Output VBS 1.0 V [p-p]/75 Ω, NTSC / PAL composite, (for adjustment) OS 5.10 V [p-p]/75 Ω, NTSC / PAL composite, (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V input impedance: Approx. 2 kΩ (unbalanced) Audio Output G3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 000 Ω (unbalanced) Output imgedance: Approx. 2 kΩ (unbalanced) Safety UL (ULC0050-1), C-UL (CAN/CSA C22.2 No.50502 ClassB, EN56024 Power Source and Power Source and Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.72 W (Class 2 device) • ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature • 10°C (14 °F to 122 °F) Ambient Operating Temperature • 10°C (14 °F to 122 °F) Calass 1.0ES000 (Hobilis Class 2 device) • 00.12 °S mm x 101 mm (H) (65-3732 inches x 3-31/32 inches (H))			*SDHC card, ** SDXC card (except miniSD card and microSD card)
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 nput/ Monitor Output VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite, (for adjustment) ø3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable. Ø3.5mm monaural mini jack Audio Output Ø3.5mm streer omini jack (monaural output) Audio Output Ø3.5mm streer omini jack (monaural output) Audio Output Ø3.5mm streer omini jack (monaural output) Stertmal I/O Terminals ALARIM IN 1(DA/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) Atardis FC (Parti 5 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption PC De Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) * ONNECT DC12 V CLASS 2 POWER SUPLY. Ambient Operating Temperature -10°C to 145°		Cellular Phone Compatibility	JPEG image, AUX control (by access level)
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: Lip to 50,000 logs for each SD memory card Up to 50,000 logs for each SD memory card schedule Alarm / VMD / Access permission / H.264 recording / Scene file nput/ Whotitor Output VBS 1.10 V [0-p/75 0, INTSC / PAL composite, (for adjustment) e3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable, a3.5 mm monaural input / (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced) Output e3.5 mm stereo mini jack (monaural output) Output fungedance: Approx. 600 Ω (unbalanced) External I/O Terminals ALARM IN 1(DAV/IIGHT IN), ALARM IN 2(ALARM MU 3(AUX OUT), ALARM IN 3(AUX OUT), CUL (CANCSA C22.2 No.60805-1), C.E, LEGC09501 Beneral Safety UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60805-1), C.E, LEGC09502 EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature: -10°C to +50°C (14 °F to 122 °F) Ambient O		Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android [™] mobile terminals
Alarm Log 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 nput/ Monitor Output VBS : 1.0 V [p-p]/75 0, NTSC / PAL composite, or adjustment) Microphone/Line Input VBS : 1.0 V [p-p]/75 0, NTSC / PAL composite, disc MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable, a3.5 mm monaural inni jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V a.05 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output ø3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 0.00 0 (unbalanced) External I/O Terminals ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) Output impedance: Approx. 6.00 0 (unbalanced) Safety UL (ULC0050-1), C-UL (CAN/CSA C22.2 N.0.60950-1), CE, IEC60950-1 FIGC (Part 15 ClassA), ICES9003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) - ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to -50°C (14 °F to 122 °F) Ambient Operating Temperature -10°C ton 450	Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm
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 nput/ Monitor Output VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite, do a Jarm / VMD / Access permission / H_264 recording / Scene file Monitor Output VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite, do a Jarm / VMD / Access permission / H_264 recording / Scene file Microphone/Line Input MIC IN and Line IN are selectable. do 3.5 mm monaural mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ± 0.5 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output do 3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 600 Ω (unbalanced) External I/O Terminals ALRRM N1 (DAV/NIGHT IN), ALARM N1 2(ALARM N13 (AUX OUT Output impedance: Approx. 600 Ω (unbalanced) Safety UL (UL60950-1), C-LU (CAN/CSA C22: 2.1 x 0.60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption OC Bevice: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 °F to 122 °F) Ambient Operating Temperature Ambient Operating Humidity 10		Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification
Up to 50,000 logs for each SD memory card Schedule Alarm / VMD / Access permission / H.264 recording / Scene file mput/ Wonitor Output VBS : 1.0 V [P-p/75 Ω, INTSC / PAL composite, for adjustment) ø3 5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable. ø3.5 mm monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V input impedance: Approx. 2 kΩ (unbalanced) Gutput Audio Output ø3.5 mm stereo mini jack (monaural output) Output GJ.5 mm stereo mini jack (monaural output) Output GJ.5 mm stereo mini jack (monaural output) Output GJ.5 mm stereo mini jack (monaural output) Output UL (UL60960-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 Safety UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.72 W (Class 2 device) Power Consumption PC E Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) Ambient Operating Temperature: -10°C to +50°C (14 °F to 122 °F) Ambient Operating Temperature: -10°C to +50°C (14 °F to 122 °F) Ambient Operating Temperature: -10°C to +50°C (14 °F to 122 °F) Ambient Operating Temperature: -10°C to +50°C (14			Indication on browser, FTP image transfer, Panasonic protocol output
Schedule Alarm / VMD / Access permission / H.264 recording / Scene file nput/ Monitor Output VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite, Output (f) or adjustment) g3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable. g3.5 mm monaural mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V a.0.5 V input impedance: Approx. 2 kΩ (unbalanced) Supply voltage: 2.5 V a.0.5 V input impedance: Approx. 2 kΩ (unbalanced) Audio Output g3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 0.60 Ω (unbalanced) External I/O Terminals ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) Safety UL (UL09050-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) -0.VLY CONNECT DC12 V / CLASS 2 POWER SUPPLY. Ambient Operating Temperature Ambient Operating Temperature -10°C (C + 50°C (14 ° to 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-332 inches x 3-31/32 inches (H))		Alarm Log	With SDXC/SDHC/SD memory card :
nput/ Dutput Monitor Output (for adjustment) VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite, ø3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MiC IN and Line IN are selectable, ø3.5mm monaural mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V 4.0.5 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output ø3.5mm streer onimi jack (monaural output) Output ø3.5mm streer onimi jack (monaural output) Stems streer onimi jack (monaural output) Output impedance: Approx. 600 Ω (unbalanced) External I/O Terminals ALARM N1 (DAV/NIGHT IN), ALARM N1 2(ALARM ND), ALARM N1 3(AUX OUT (UL (UL60950-1), C-LU (CAN/CSA C22:2.0 x 60950-1), CE, IEC60950-1 Beneral Safety UL (UL60950-1), C-LU (CAN/CSA C22:2.0 x 60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption * ORLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 ° ft to 122 °F) Ambient Operating Temperature -10°C to +50°C (14 ° ft to 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))		-	Up to 50,000 logs for each SD memory card
Dutput (for adjustment) a3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable. a3.5 mm monaural mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V 20.5 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output a5.5 mm stereo mini jack (monaural output) Output a5.5 mm stereo mini jack (monaural output) External I/O Terminals ALARM N1 (DAY/MIGHT IN), ALARM IN 2(ALARM OUT), ALAM IN 3(AUX OUT Safety UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassA, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption > OE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) Ambient Operating Temperature: -10°C to +50°C (14 °F to 122 °F) Ambient Operating Temperature: -10°C to +50°C (14 °F to 122 °F) Ambient Operating Temperature: -10°C to +50°C (14 °F to 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))		Schedule	Alarm / VMD / Access permission / H.264 recording / Scene file
Dutput (for adjustment) a3.5mm mini jack MONITOR OUT conversion plug included Microphone/Line Input MIC IN and Line IN are selectable. a3.5 mm moural mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output a5.5 mm stereo mini jack (monaural input) Output a5.5 mm stereo mini jack (monaural input) External I/O Terminals ALARM N 1(DA/VIIGHT IN), ALARM IN 2(ALARM OLT), ALAM IN 3(AUX OUT) Safety UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.72 W (Class 2 device) Power Consumption > OE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) Ambient Operating Temperature: -10°C to +50°C (14 ° fto 122 ° F) Ambient Operating Temperature: -10°C to +50°C (14 ° fto 123 ° F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))	Input/	Monitor Output	VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite,
(monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output 63 5 mm stereo mini jack (monaural output) Output impedance: Approx. 600 Ω (unbalanced) External I/O Terminals ALARM IN 1(DAV/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT Output impedance: Approx. 600 Ω (unbalanced) Barteral External I/O Terminals ALARM IN 1(DAV/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT Output impedance: Approx. 600 Ω (unbalanced) Beneral EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and Power Consumption DC power supply: DC12 V / 540 mA / Approx. 6.48 W Poer Consumption PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature * 010 to 90 % (no condensation) Dimensions o1295 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))	Output	(for adjustment)	ø3.5mm mini jack MONITOR OUT conversion plug included
Supply voltage: 2.5 V 20.5 V Input impedance: Approx. 2 kΩ (unbalanced) Audio Output 63.5 mm stereo mini jack (monaural output) Output Output impedance: Approx. 600 Ω (unbalanced) External I/O Terminals ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OLT), ALARM IN 3(AUX OLT) Safety UL (UL60960-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICE5003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.49 W Power Consumption POE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) • ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature: -10°C to +50°C (14 ° fto 122 ° F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))		Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack
Audio Output 63.5 mm stereo mini jack (monaural output) Output 03.5 mm stereo mini jack (monaural output) Output 0utput impedance: Approx. 600 Ω (imbalanced) 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 (GAN/CSA C22.2 No.60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 m / Approx. 6.48 W Power Consumption PoE Device: DC48 V / 140 m / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 ° ft to 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))			(monaural input) (Applicable microphone: Plug-in power type)
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) Safety UL (UL60950-1), C-UL (CAN/CSA C22.2 No 60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 ° F to 122 ° F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))			Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced
External I/O Terminals ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) Safety UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.49 W Power Consumption Poetrice: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) • ONLY CONNECT DC12 V / CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 ° F to 122 ° F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions 0129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))		Audio Output	ø3.5 mm stereo mini jack (monaural output)
Safety UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 EMS FCC (Part15 ClassA), ICE5003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 °F to 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))			Output impedance: Approx. 600 Ω (unbalanced)
EMS FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 Power Source and DC power supply: DC12 V / 540 mA / Approx. 6.48 W Power Consumption PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V / 540 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 ° fto 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))		External I/O Terminals	ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT
Power Source and Power Consumption DC power supply: DC12 V / 540 mA / Approx. 6.48 W PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature Ambient Operating Humidity - 10°C to +50°C (14 °F to 122 °F) Ambient Operating Humidity - 10°C to +50°C (14 °F to 122 °F) Ambient Operating Humidity - 10°C to 90 % (no condensation) Dimensions 0129.5 mm x 101 mm (H) (65-3/32 inches x 3-31/32 inches (H))	General	Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
Power Consumption PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device) * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 °F to 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (o5-3/32 inches x 3-31/32 inches (H))		EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
* ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. Ambient Operating Temperature -10°C to +50°C (14 °F to 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) (o5-3/32 inches x 3-31/32 inches (H))		Power Source and	DC power supply: DC12 V / 540 mA / Approx. 6.48 W
Ambient Operating Temperature -10°C to +50°C (14 °F to 122 °F) Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions o129.5 mm x 101 mm (H) {e5-3/32 inches x 3-31/32 inches (H)}		Power Consumption	PoE Device: DC48 V / 140 mA / Approx. 6.72 W (Class 2 device)
Ambient Operating Humidity 10 to 90 % (no condensation) Dimensions ø129.5 mm x 101 mm (H) (ø5-3/32 inches x 3-31/32 inches (H))			* ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.
Dimensions Ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)}		Ambient Operating Temperature	-10°C to +50°C (14 °F to 122 °F)
		Ambient Operating Humidity	10 to 90 % (no condensation)
Dome radius 40 mm {1-9/16 inches}		Dimensions	ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)}
			Dome radius 40 mm {1-9/16 inches}
Mass (approx.) Approx. 0.59 kg {1.30 lbs}		Mass (approx.)	Approx. 0.59 kg {1.30 lbs}
Finish Main body : ABS resin, sail white		Finish	Main body : ABS resin, sail white
Dome section: Clear acrylic resin			Pomo soction: Clear acrilic rasin

*1 Converted value

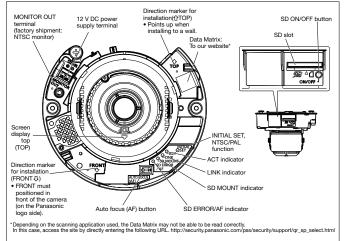
*2 Super Dynamic function is automatically set off on 60fps mode.

3 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8.1" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8.1 or

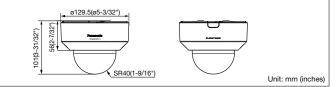
Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®

*4 Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



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