

Super Dynamic Full HD Dome Network Camera WV-SFN531



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

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 1/3 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 F1.6 *ICR: IR Cut filter Removal
- ABF (Auto Back Focus) ensures easy installation.
- **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

Image S		
	Sensor	Approx. 1/3 type MOS image sensor
Effective Pixels		Approx. 2.4 mega pixels
	ng Mode	Progressive scan
Scannir	ig Area	5.28 mm (H) × 3.30 mm (V) {7/32 inches(H) x 1/8 inches(V) }
Minimu	m Illumination	Color: 0.07 lx, BW: 0.01 lx (F1.6, Maximum shutter: Max. 1/30s, Gain: On(High))
		Color: 0.005 lx, BW: 0.0007 lx (F1.6, Maximum shutter: Max. 16/30s, Gain: On(High)) *1
White B		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
Light Co	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 D)ynamic*2	On(High) / On(Normal) / Off
Face St	uper Dynamic	On / Off (Only when Super Dynamic : On)
		On / Off (Only when Super Dynamic : Off)
		On / Off (Only when Super Dynamic / Adaptive black stretch: Off)
AGC		On (Low, Mid, High) / Off
	nic 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) Dynamic Range Digital Noise Reduction		Off/ On/ Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
		133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
		High / Low
		4 areas, Sensitivity : 15 steps, Detection size : 10 steps
		Up to 8 zones
		Up to 8 zones
		Up to 20 characters (alphanumeric characters, marks)
		ABF / MANUAL(Html only)
		256 steps
		2.8 - 9.5 mm {1/8 inches - 13/32 inches}
Vari Focal Length Angular Field of View		[16 : 9 mode] Horizontal : 32° (TELE) - 110° (WIDE)
		Vertical : 18° (TELE) - 110° (WIDE)
		[4 : 3 mode] Horizontal : 27° (TELE) - 91° (WIDE) Vertical : 20° (TELE) - 66° (WIDE)
Focusing Range		1 : 1.6 (WIDE) - 1 : 3.3 (TELE)
		0.3 m - ∞
Angle		Horizontal: +120°(right) to -240°(left), Vertical: ±85°,
		Image tilt adjustment range: -100°(Left) to +100°(Right)
Croppir	ıg	H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3)
		Up to 4 image capture areas can be specified
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 Title		Up to 20 alphanumeric characters
Clock Display		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
Alarm Control		Reset
One Shot Capture		A still picture will be displayed on a newly opened window.
Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
		Audio Output : On / Off Volume adjustment : Low / Middle / High
SD Men	nory Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
		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 logs
Suppor	tod OS *3	
oupported oo		IVIICIOSOIte WINDOWSe 8.1,
	leu OS 9	Microsoft® Windows® 8.1, Microsoft® Windows® 8,
	led US v	Microsoft® Windows® 8,
	160 03 0	Microsoft® Windows® 8, Microsoft® Windows® 7,
Suppor		Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®
Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit),
Suppor		Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 10 (32-bit),
Suppor		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),
Suppor		Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 8 (32-bit), Windows® Internet Explorer® 8 (32-bit),
	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® 1, Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 8 (22-bit), Windows® Internet Explorer® 8 (22-bit), Windows® Internet Explorer® 7 (22-bit)
Network	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), Undows® Internet Explorer® 7 (32-bit) 10Base-TX / 10Base-TX / RJ45 connector
Network	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), Vindows® Internet Explorer® 7 (32-bit), Vindows® Internet Explorer® 7 (30/60 fps)
Network	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® 8 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (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
Network	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) 10Base-TV / 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	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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 4 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 600 / 640 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
Network	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® 8 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 8 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer • 2 mega pixel [16:9] (30/06 fps) 1,600 x 1,200 / 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 600 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
Network	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vist® 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, 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 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps) 2,048 × 1,587 / 1,280 × 800 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps)
Network	ted Browser IF Resolution	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Viste® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 10 (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 fps) 1,600 x 1,200 / 1,280 x 800 / 600 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
Network	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 / 100Base-TX, RJ45 connector • 2 mega pixel [163] (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 560 / 600 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 '2 Misel [4:3] (30 fps) 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
Network	ted Browser IF Resolution Transmission Mode Frame Rate	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® 7 (32-bit), UDBase-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) 1,600 × 1200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps) 1,600 × 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
Network Image F	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Viste® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (12-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (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 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 • 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
Network Image F	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client	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 / 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 / 600 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 / 600 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 'Used by super resolution techniques Constant Ditrate / Framerate pirotiry / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 /256 / 384 / 512 / 768 / 10,24 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kps
Network Image F	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vist® Windows® Internet Explorer® 10 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), UDBase-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) 1,600 × 1200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps) 1,610 × 120 / 120 / 120 / 50 / 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 / 512 / 768 / 1,024 / 1,336 / 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
Network Image F	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Viste® Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 9 (12-bit), Windows® Internet Explorer® 9 (32-bit), Windows® Internet Explorer® 7 (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 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 * Used by super resolution techniques Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 726 / 10,24 / 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
Network Image F	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, 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 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 720 / 640 x 360 / 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 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8.192 / 10.240 / 12.288 / 14.336 / 15.84 / 20.480 / 24.576 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s Unicast / Multicast
Network Image F	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality	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® 7 (32-bit), UDBase-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 / 640 x 460 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [14:3] (30 fps) 1,600 x 1200 / 1,280 x 960 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [14:3] (30 fps) 1,600 x 1200 / 1,280 x 960 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [14:3] (30 fps) 1,600 x 1200 / 1,280 x 960 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 128 db y 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 / 10,244 / 1,358 / 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
Network Image F H.264 4	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 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), 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 [14:3] (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 * 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
Network Image F	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality	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 / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 x 1,080 / 1,220 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 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 1,536' / 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 / 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 / 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).
Network Image F H.264 4	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality	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), 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 [14:3] (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 * 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
H.264 4	IF Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval	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 / 100Base-TX, RJ45 connector • 2 mega pixel [16:3] (30/60 fps) 1,920 x 1,080 / 1,220 x 720 / 640 x 360 / 320 x 180 / 160 x 90 • 2 mega pixel [4:3] (30 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 1,536' / 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 / 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 / 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).
H.264 4	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression	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® 9 (32-bit), Windows® Internet Explorer® 7 (32-bit), Windows® Internet Explorer® 7 (32-bit), 10Base-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 * 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 G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
Network Image P 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	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® 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) 1,800 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 [14:3] (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 priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 786 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 1,228 / 14.33 / 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) /
Network Image F H.264 4 JPEG Audio C	IF Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Transmission Type Compression Mode	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 [4:3] (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 × 1200 / 1,280 × 800 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps) 1,600 × 1200 / 1,280 × 800 / 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 / 1,536 / 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 rame 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)
H.264 JPEG Audio C Audio N	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Node ication 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® 8 (22-bit), Windows® Internet Explorer® 8 (22-bit), 10Base-T / 100Base-TX, RJ45 connector • 2 mega pixel [163] (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 / 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 bitrat / Framerate pirotity / 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 / 1,2288 / 14,336 / 16,384 / 20,480 / 20,476 kps 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 only / Level 2 higher / All users
Network Image F 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 Node ication for Audio	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® 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) 1,800 x 1,200 / 1,280 x 980 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 • 3 mega pixel [14:3] (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 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 / 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 /
H.264 4 JPEG Audio C Audio N Authent Total Bi	IF Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Mode iccation for Audio t Rate	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), UDBase-T / 100Base-TX, RJ45 connector • 2 mega pixel [4:3] (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 × 1200 / 1,280 × 720 / 640 × 360 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [4:3] (30 fps) 1,600 × 1200 / 1,280 × 800 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 · 2 mega pixel [4:3] (30 fps) 1,600 × 1200 / 1,280 × 800 / 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 / 1,586 / 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) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unimited
H.264 4 JPEG Audio C Audio N Authent Total Bi	ted Browser IF Resolution Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Node ication for Audio	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® 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) 1,600 × 1,200 / 1,280 × 960 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * 3 mega pixel [4:3] (30 fps) 2,048 × 1,536' / 1,280 × 960 / 640 × 640 / 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 / 24,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,356 / 1,6384 / 20,480 / 2,468 / 3,072 / 4,096 / 6,144 / 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) Level 1 only / 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,
H.264 4 JPEG Audio C Audio N Authent Total Bi	IF Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Mode iccation for Audio t Rate	Microsoft® Windows® 7, 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-TX, RJ45 connector • 2 mega pixel [16:3] (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 × 1200 / 1,280 × 960 / 900 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 1,280 × 960 / 900 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 • 3 mega pixel [14:3] (30 fps) 1,600 × 1200 / 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 / 1,538 / 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 / 55 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 / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP
H.264 4 JPEG Audio C Audio N Authent Total Bi	IF Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Mode iccation for Audio t Rate	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), UDBase-T / 100Base-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) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [4:3] (30 fps) 1,600 × 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 / 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 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 IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP,
H.264 4 JPEG Audio C Audio N Authent Total Bi Suppor	ted Browser IF Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Sompression Adde ication for Audio t 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 / 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 • 3 mega pixel [4:3] (30 fps) 2.048 × 1.586' / 1.280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * Jsec 14, 1280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * Jsec 14, 1280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 120 * Jsec 14, 128 / 128 / 128 / 152 / 138 / 15, 38 / 2, 048 / 3, 072 / 4, 096 / 6, 144 / 8, 129 / 10, 240 / 12, 288 / 16, 384 / 20, 480 / 24, 576 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 58 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) 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
H.264 4 JPEG Audio C Audio N Authent Total Bi	ted Browser IF Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Sompression Adde ication for Audio t 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), UDBase-T / 100Base-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) 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 • 2 mega pixel [4:3] (30 fps) 1,600 × 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 / 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 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 IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP,
	Shutter Super D Super	Electronic Sensitivity UP Day/Night (ICR) Day/Night (ICR) Dynamic Range Dynamic Range Dynamic Range Dynamic Range Cocus Adjustment ens Distortion Compensation fari Focal Length Angular Field of View daximum Aperture Ratio cocusing Range Angle Cropping Camera Control Display Mode Digital Zoom Samera Title Disck Display Nam Control Done Shot Capture

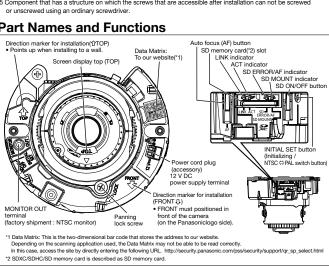
Network	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC/
	Memory Card (Option)	Backup upon network failure
	* Use the SD memory card	JPEG recording : Manual REC / Alarm REC (Pre/Post) /
	manufactured by Panasonic (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
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model
		*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 terminals
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, NTSC / PAL composite,
Output	(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 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	ø3.5 mm stereo mini jack (monaural output)
		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
	EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and	DC power supply: DC12 V / 450 mA / Approx. 5.4 W
	Power Consumption	PoE Device: DC48 V / 110 mA / Approx. 5.3 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	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. 0.49 kg {1.08 lbs}
	Finish	Main body : ABS resin, sail white
		Dome section: Clear acrylic resin
	Others	Tamper-resistant enclosure *5

*1 Converted value

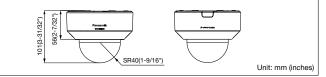
¹ Somerica Values ² Super Dynamic function is automatically set off on 60 fps mode. ³ Refer to "Notes on Windows Vistae" / Windows⁹ 8 / Windows⁸ 8.1st on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows⁸ 8.1 or Microsoft® Windows⁸ 8 or Microsoft® Windows⁹ 7 or Microsoft® Windows Vista⁸.

*4 Transmission for 4 streams can be individually set. *5 Component that has a structure on which the screws that are accessible after installation can not be screwed or unscrewed using an ordinary screwdriver

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.
 - iPad, iPhone and iPod touch are registered trademarks of Apple Inc.
 - Android is a trademark of Google Inc.

UniPhier is a registered trademark of Panasonic Corporation.
 "'PRO SmartHD" logo is trademark or registered trademark of Panasonic Corporation.
 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

Important
 Important
 Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.
 Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

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

DISTRIBUTED BY:

Panasonic

http://security.panasonic.com

http://www.facebook.com/PanasonicNetworkCamera (2A-142CA)