

HD Dome Network Camera WV-SC384



HD/1,280 x 960 H.264 PTZ Dome Network Camera.

Key Features

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier[®]", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- 18x optical zoom. 36x extra optical zoom at VGA resolution with 8x digital zoom enabling 288x zoom.
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function : 0.6 lx (Color), 0.5 lx (B/W) at F1.6 (Wide)
- Adaptive Digital Noise Reduction: 2D-DNR and 3D-DNR integration ensures reduced noise and motion blur in various conditions.
- Superior color reproduction by primary (RGB) color filter
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Outdoor / Indoor / Fixed electronic shutter Outdoor / Indoor: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level.
 Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- Panning with auto flip function can be performed 0 to 360 degrees.
- PTZ control can be taken on the user friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control.
 256 speeds available for system with WV-CU950 system controller.
- Up to 64 preset positions
- 360 map shot: 8 thumbnail images at 45 deg. intervals make it simple to direct the camera easily by clicking on a thumbnail.
- Industrial grade Pan/Tilt/Zoom mechanism for high reliability
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD is supplied to work with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic 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.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264/MPEG-4 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.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC) * Installation required except for English
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF compliant model

Standard Accessories

CD-ROM*1 1 pc. Installation Guide	Decorative Cover		
Camera Mount Bracket (w/safety wire)	*1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs. *2 This label may be required for network management. The network administrator shall retain the code label.		

Optional Accessories

Inner Dome Cover WV-Q157



(Clean W) (Small

Embedded Ceiling Mount Brackets
WV-Q155C
(Clear)
WV-Q155S
(Smoke)

Wall Mount Brackets
WV-Q154C (Clear)
WV-Q154S (Smoke)



Ceiling Mount Bracket
WV-Q105

^{*} Not compatible with optional accessories of conventional cameras

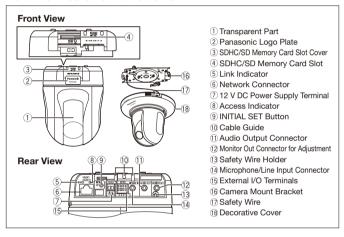
Specifications

TV System Camera	Image Sc-	cor	NTSC 1/3 type MOS Sensor	PAL
oamera	Image Sen Effective P		1/3 type MOS Sensor Approx. 1.3 megapixel	
	Scanning N		Progressive scan	
	Scanning A		4.8 mm (H) x 3.6 mm (V) (3/16" (H)	× 5/32" (V))
	Minimum II		Color: 0.6 lx (F1.6, Auto slow shutte	
			0.038 lx (F1.6, Auto slow shutter: n	
			BW: 0.5 lx (F1.6, Auto slow shutter: Off (1/30 s), AGC: High)	
			0.031 lx (F1.6, Auto slow shutter: max. 16/30 s, AGC: High)	
	White Balance		ATW1 / ATW2 / AWC	
	Light Conti	rol Mode	Indoor scene (50 Hz / 60 Hz) / Outo	door scene / Fix shutter
	Shutter Sp	eed	1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500,	
			1/1,000, 1/2,000, 1/4,000, 1/10,000	כ
	Wide Dyna	mic Range	ON / OFF	
		Dynamic Range	ON / OFF	
		llack Stretch		
	AGC			
	Auto Slow			
		and White Mode		
		se Reduction	High / Low	
	Video Motion Detection		ON / OFF, 4 areas available	
	Privacy Zo		ON / OFF (up to 2 zones available)	
	Up Side Down		Ceiling mount only	
	Image Stabilizer		ON / OFF	
1	Camera Title (OSD)		ON / OFF	
Lens	Focal Length		4.7 mm ~ 84.6 mm	at VGA resolution)
	Zoom Ratio Digital (Electronic) Zoom		18x / 36x with extra optical zoom (at VGA resolution)	
	Angular Fie		8x (Max. 288x combined with extra optical zoom under VGA)	
		Aperture Ratio	H: 3.2° (Tele) ~ 55.2° (Wide), V: 2.4° (Tele) ~ 42.1° (Wide)	
	Focus Ran		1 : 1.6 (Wide) ~ 2.8 (Tele) 1.5 m ~ ∞	
	Aperture R		F1.6 ~ 22. Close	
Pan and Tilt	Panning Ra		0° ~ 350°	
. an and till	Panning No		Manual: approx. 0.5°/s ~ 100°/s, P	reset: up to approx. 300°/s
	Tilting Ran		-30° ~ 90° (upward-level-downward)	
		-	Tilting angle limit: 10° / 5° / 3° / 0° / –3° / –5° / –10° / –15° / –20° / –25° / –30°	
	Tilting Speed		Manual: approx.0.5°/s ~ 100°/s, Preset: up to approx. 100°/s	
	Proportional Pan/Tilt Control		Yes	
	Number of Preset Positions		64	
	Auto Mode		Auto pan / Preset sequence / 360	map-shot / Preset map-shot
	Image Hold		ON / OFF	
	PTZ Position Display		ON / OFF	
	Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min	
	Pan/tilt flip *1		ON / OFF	
	Map Shot		360 map shot / preset map shot	
Browser GUI	Camera Control		Pan/Tilt (16 steps), Zoom, Focus, (
	Display Mode Camera Title		Preset position call and program, A Spot, Quad: Image from 16 cameras	
			screens or 16 split screen (JPEG only). 20 characters camera title available. Up to 20 characters (alphanumeric characters, marks), Character size: Small	
	Clock Display		Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual/AUTO)	
	Alarm Control		Reset	e browser, Summer time (Manday AOTO)
	One Shot Capture		A still picture will be displayed on a	newly opened window
	Audio		Mic (Line) Input: ON / OFF Volume	
	SD Memory Data Download GUI/Setup Menu Language System Log		Audio Output: ON / OFF Volume a	
			Still or motion images recorded in the SD	
			English, French	English, French, Italian, Spanish,
			(Installation required for French)	German, Russian (Installation
				required except for English)
			Up to 100 (Internal), Up to 4,000 (S	DHC/SD memory when the
			recording format is set to JPEG.) e	rror logs
	Supported	os	Microsoft® Windows® 7 Profession	
	'		Microsoft® Windows Vista® Busin	
			Microsoft® Windows® XP Profess	
			The language of the OS must be sa	
	Supported	Browser		osoft® Windows® 7 Professional 64 bit/32 bit),
			Windows® Internet Explorer® 7.0 (Microsoft®	
			Microsoft® Internet Explorer® 6.0 SP3 (Micros	
Network	Network IF		10Base-T / 100Base-TX, RJ-45 co	
- VOLVVOIK				30) / QVGA (320 x 240), up to 30 fps
i 4€tWUIK	Image	Aspect ratio:		(000 040) 1- 00 (
I 4GTMOLK	Image Resolution		MPEG-4: VGA (640 x 480) / QVGA	
I 4GLWUIK	Image	[4:3]	MPEG-4: VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 640	x 480 / 320 x 240, up to 30 fps
I VOLWUIK	Image Resolution	[4:3] Aspect ratio:	MPEG-4: VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 32	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps
i vetWUIK	Image Resolution *2 *3	[4:3] Aspect ratio: [16:9]	MPEG-4: VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 32 JPEG (MJPEG): 1,280 x 720 / 640	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps
THE LIVE IN	Image Resolution *2 *3	[4:3] Aspect ratio: [16:9] Transmission Mode	MPEG-4: VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort
THE THE STATE OF T	Image Resolution *2 *3 H.264/ MPEG-4	[4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate	MPEG-4: VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3/5/7.5/10/12/15/20/30 fps
NOLWOIK	Image Resolution *2 *3	[4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64/128/256/384/512/768/1	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps ,024 / 1,536 / 2,048 / 3,072 /
NOLWUI K	Image Resolution *2 *3 H.264/ MPEG-4	[4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate Bit Rate/Client	MPEG-4: VCA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 640 x 360 / 3: JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3: JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64/128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * H	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps ,024 / 1,536 / 2,048 / 3,072 /
NOLWUIK	Image Resolution *2 *3 H.264/ MPEG-4	[4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * H LOW / NORMAL / FINE	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7 . 5 / 10 / 12 / 15 / 20 / 30 fps .024 / 1,536 / 2,048 / 3,072 / .264 mode Only
NOLWUI K	Image Resolution *2 *3 H.264/ MPEG-4	[4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10/ 15/20/ 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192° kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s /	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7 . 5 / 10 / 12 / 15 / 20 / 30 fps .024 / 1,536 / 2,048 / 3,072 / .264 mode Only
NOLWUIK	Image Resolution *2 *3 H.264/ MPEG-4	[4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	MPEG-4: VCA (640 x 480) / OVCA H.264: 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64/128/256/384/512/768/1 4,096/8,192* kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / 20 x 180 x 20 x
NEWUIK	Image Resolution *2 *3 H.264/ MPEG-4 *2	[4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type	MPEG-4: VCA (640 x 480) / OVCA H.264: 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64/128/256/384/512/768/1 4,096/8,192* kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7 . 5 / 10 / 12 / 15 / 20 / 30 fps .024 / 1,536 / 2,048 / 3,072 / .264 mode Only
rectivUIK	Image Resolution *2 *3 H.264/ MPEG-4 *2	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1 LOW / NORMAL / FINE LOW / NORMAL / FINE UNICAST / MULTICAST 0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NC	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 0.024 / 1,536 / 2,048 / 3,072 / 264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9)
reciwUK	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG)	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64/128/256/384/512/768/1 LOW / NORMAL / FINE LOW / NORMAL / FINE UNICAST / MULTICAST UNICAST / MULTICAST O SUPER FINE / 1 FINE / 2/3/4/5 NC PULL / PUSH Other And Publish (JPEG frame rate v both JPEG and H.264/MPEG-4 im	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3/5/7.5/10/12/15/20/30 fps .024 / 1,536 / 2,048 / 3,072 / .264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) vill be restricted when displaying ages.)
NEWUK	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG)	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type On Interval	MPEG-4: VCA (640 x 480) / OVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3/5/7.5/10/12/15/20/30 fps .024 / 1,536 / 2,048 / 3,072 / .264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) vill be restricted when displaying ages.)
NEWUK	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST OURDER JPER JPE / 1 FINE / 2/3 / 4 / 5 NC PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate both JPEG and H.264/MPEG-4 im, G.726 (ADPCM) 32 kbps / 16 kbps	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / 20 x 180 / 20 / 30 fps y / 20 x 180 / 30 fps y
NEWUK	Image Resolution "2 "3 H.264/ MPEG-4 "2 JPEG (MJPEG) Transmissi Audio Com Audio Mod	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64/128/256/384/512/768/1 LOW / NORMAL / FINE LOW / NORMAL / FINE UNICAST / MULTICAST UNICAST / MULTICAST 0 SUPER FINE / 1 FINE / 2/3/4/5 NC PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate v both JPEG and H.264/MPEG-4 im G.726 (ADPCM) 32 kbps / 16 kbps G.756 (ADPCM) 32 kbps / 16 kdbps G.756 (ADPCM) 32 kdps / 16 kdbps G.756 (ADPCM) 32 kdps / 16 kdbps G.756 (ADPCM) 32 kdps / 16 kdbps	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3/5/7.5/10/12/15/20/30 fps 0.024 / 1,536 / 2,048 / 3,072 / .264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9 will be restricted when displaying ages.) , G.711 64 kbps active (Half duplex) / Interactive (Full duplex sers
NEWUIK	Image Resolution "2 "3 H.264/ MPEG-4 "2 JPEG (MJPEG) Transmissi Audio Com Audio Mod	[4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval pression le tion for Audio	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64/128/256/384/512/768/1 LOW / NORMAL / FINE LOW / NORMAL / FINE UNICAST / MULTICAST UNICAST / MULTICAST 0 SUPER FINE / 1 FINE / 2/3/4/5 NC PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate v both JPEG and H.264/MPEG-4 im G.726 (ADPCM) 32 kbps / 16 kbps G.756 (ADPCM) 32 kbps / 16 kdbps G.756 (ADPCM) 32 kdps / 16 kdbps G.756 (ADPCM) 32 kdps / 16 kdbps G.756 (ADPCM) 32 kdps / 16 kdbps	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3/5/7.5/10/12/15/20/30 fps 0.024 / 1,536 / 2,048 / 3,072 / .264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) will be restricted when displaying ages.) c, G.711 64 kbps active (Half duplex) / Interactive (Full duplex) sers
NEWUK	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Mood Audio Mood Audio Mod Audio M	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 (ps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 0.3 UPICR FINE / 1 FINE / 2 / 3 / 4 / 5 NC PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate v both JPEG and H.264/MPEG-4 im G.726 (ADPCM) 32 kbps / 16 kbps 0FF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / All u 64 / 128 / 256 / 384 / 512 / 768 / 1,024	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9 will be restricted when displaying ages.) , G. 711 64 kbps active (Half duplex) / Interactive (Full duplex sers / 2,048 / 4,096 / 8,192 kbps / Unlimited
NO.WUIK	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Mod Authentica Total Bit R:	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 (ps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 0.3 UPICR FINE / 1 FINE / 2 / 3 / 4 / 5 NC PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate v both JPEG and H.264/MPEG-4 im G.726 (ADPCM) 32 kbps / 16 kbps 0FF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / All u 64 / 128 / 256 / 384 / 512 / 768 / 1,024	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 2 / 3 / 3 / 4 / 3 / 3 / 3 / 3 / 3 / 3 / 3
NO.WUIK	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Mod Authentica Total Bit R:	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval	MPEG-4: VCA (640 x 480) / OVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 y 640 / 32 JPEG (MJPEG): 1,280 x 720 / 30 JPEG (MJPEG): 1,280 x 720 / 30 JPEG (MJPEG): 1,280 x 720 / 30 JPEG (MJPEG): 1,280 x 720 JPEG): 1,280 x 720 JPEG (MJPEG): 1,280 x 720 JPEG): 1,280 x 720 JPEG (MJPEG): 1,280 x 720 JPEG): 1,280 x 720 JPEG (MJPEG): 1,280 x 720 JPEG): 1,280 x 720 JPEG (MJPEG): 1,280 x 720 JPEG): 1,280 x 720 JPEG (MJPEG): 1,280	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3/5/7.5/10/12/15/20/30 fps 0.024 / 1,536 / 2,048 / 3,072 / .264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) will be restricted when displaying ages.) c, G.711 64 kbps active (Half duplex) / Interactive (Full duplex) sers / 2,048 / 4,096 / 8,192 kbps / Unlimited / 2, FTP, SMP, DHCPVE PS, RTSP, RTP, RTP/RTCP, PS, RTSP, RTP, RTP/RTCP,
we(wu) K	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Mod Authentica Total Bit R:	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval Appression le tion for Audio ate Protocol	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5 / 10/15/20/30 (ps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 0.3 UPICR PIRE / 1 FINE / 2 / 3 / 4 / 5 NC PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate v both JPEG and H.264/MPEG-4 im G.726 (ADPCM) 32 kbps / 16 kbps 0FF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / All u 64 / 128 / 256 / 384 / 512 / 768 / 1,024 IPNG: TCP/P, UDP/P, HTTP, HTTP, FTTF FTP, SMTP, DHCP, DNS, DDNS, N	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1/3/5/7.5/10/12/15/20/30 fps 0.024 / 1,536 / 2,048 / 3,072 / .264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) will be restricted when displaying ages.) c, G.711 64 kbps active (Half duplex) / Interactive (Full duplex) sers / 2,048 / 4,096 / 8,192 kbps / Unlimited / 2, FTP, SMP, DHCPVE PS, RTSP, RTP, RTP/RTCP, PS, RTSP, RTP, RTP/RTCP,
NEWUK	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Mod Authentica Total Bit R. Supported	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval Appression le tion for Audio ate Protocol	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5 / 10/15/20/30 (ps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 0.3 UPICR PIRE / 1 FINE / 2 / 3 / 4 / 5 NC PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate v both JPEG and H.264/MPEG-4 im G.726 (ADPCM) 32 kbps / 16 kbps 0FF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / All u 64 / 128 / 256 / 384 / 512 / 768 / 1,024 IPNG: TCP/P, UDP/P, HTTP, HTTP, FTTF FTP, SMTP, DHCP, DNS, DDNS, N	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 2 / 3 / 3 / 4 / 3 / 3 / 3 / 3 / 3 / 3 / 3
NO.WUIK	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Mod Authentica Total Bit R. Supported	[4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type on Interval Appression Ide tion for Audio ate Protocol	MPEG-4: VCA (640 x 480) / CVCA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 y 640 / 34	x 480 / 320 x 240, up to 30 fps 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / 2 / 2 / 3 s / 4 s / 5 s 2 / 2 / 3 s / 4 s / 5 s 2 / 3 s / 4

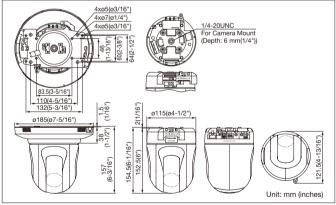
TV System		NTSC	PAL		
Network	Maximum Concurrent Access Number	Up to 14 (Depends on network conditions)			
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (PRE/Post) / Schedule REC			
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure			
	, , ,	Compatible SD (SDHC) card: Panasonic 256 MB, 512MB, 1GB, 2 GB, 4 GB*, 8 GB*, 16GB*, 32GB* model *SDHC card			
	Face Detection	ON / OFF (with XML notification)			
	Cellular Phone Compatibility	JPEG image, panning / tilting / zoom control, AUX control (by access level)			
Alarm	Alarm Source	3x Terminal inputs, VMD, Command alarm			
	Alarm Actions	SD memory recording, E-mail notification, Indication on browser,			
		Camera positioning, Preset position 1 ~ 64, FTP image transfer,			
		Terminal output, Panasonic protocol output			
	Alarm Log	With SD memory card: 5,000 logs, Without SD memory card: 1,000 logs			
	Schedule	Alarm/VMD/Access permission, Preset position call, Position refresh,			
		H.264 recording			
Input /	Monitor Output	1.0 V [p-p] / 75 Ω, NTSC composite,	1.0 V [p-p] / 75 Ω, PAL composite,		
Output	(for adjustment)	ø3.5 mm mini jack	ø3.5 mm mini jack		
	Microphone/Line Input	ø3.5 mm monaural mini jack, Input impedance: approx. 2 kΩ			
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level			
		Output impedance: Approx. 600 Ω, Line level			
	External I/O Terminals	ALARM IN 1, ALARM IN 2 / ALARM OUT, ALARM IN 3 / AUX OUT (x1 each)			
General	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA),			
		C-UL (CAN/CSA C22.2 No.60065),	EN55024), GOST (GOST R 51558)		
		DOC (ICES003 ClassA)			
	Power Source/	12 V DC, PoE (IEEE802.3af compliant)			
	Consumption	12 V DC : 690 mA, PoE 48 V : 10 W / 190 mA (Class 0 device)			
	Ambient Operating	−10 °C ~ +50 °C (14 °F ~ 122 °F),			
	Temperature/Humidity	90% or less (whitout condensation)			
	Dimensions	ø115 mm x 155 mm (H) (ø4-17/32" x 6-3/32" (H)) (excluding the 12 V DC power cord plug)			
	Mass (approx.)	900 g (1.99 lbs.)			

[&]quot;1 The pan/tilt-flip function cannot be activated by clicking live images. When the zoom ratio is adjusted to the "TELE" side, images will be partially hidden even if the pan/tilt-flip function is activated. "2 H.264 and MPEG-4 are alternative. "3 [4:3] and [16:9] are alternative.

Part Names and Functions



Appearance



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Important

- Safety Precaution: carefully read the operating instructions and installation manual before using this product. Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.
- All TV pictures are simulated. Masses and dimensions are approximate. Specifications are subject to change without notice. These products may be subject to export control regulations. All product pictures are NTSC models.

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