

Super Dynamic HD Dome Network Camera WV-SC386



HD/1,280 x 960 H.264 Camera featuring Optical 36x zoom and Super Dynamic

Key Features

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed 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
- 36x optical zoom with 12x digital zoom enabling 432x zoom.
 72x extra optical zoom at VGA resolution with 12x digital zoom enabling 864x zoom.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared with conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function: 0.5 lx (Color), 0.06 lx (B/W) at F1.4 (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.
- 360 degrees endless Panning
- Advanced auto tracking: tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- PTZ control can be taken very smoothly 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 256 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 Detection) 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 works with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 8 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: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- 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
- Supports Power over Ethernet (PoE) IEEE 802.3af

Standard Accessories

CD-ROM*1	Decorative Cover	
Camera Mount Bracket	*1 The CD-ROM contains the operating instructions	
Camera Fixing Screw (M3) 2 pcs. (incl. 1 spare)	(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 Accessory



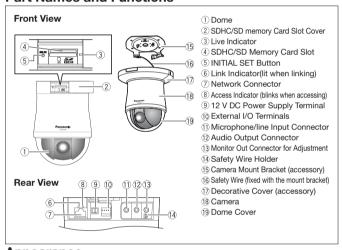
Specifications

TV System			NTSC	PAL	
Camera	Image Sen	isor	1/4 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning I		Progressive scan		
	Scanning /		Progressive scan 3.6 mm (H) x 2.7 mm (V) {5/32 inches (H) × 11/100 inches (V)}		
		llumination			
	IVIIIIIIIIIIII	ilumination	Color: 0.031 lx, B/W: 0.004 lx at F1.4 (Shutter: 16/30 s, AGC: High) se AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000		
	White Bala				
	Light Cont	rol Mode			
	Shutter Sp	eed	Fix shutter: OFF (1/30), 3/100, 3/12	20, 2/100, 2/120, 1/100,	
			1/120, 1/250, 1/500, 1/1,000, 1/2,0		
	Super Dyn	amic	ON / OFF	00, 174,000, 1710,000	
				ON D	
	Face Supe		ON / OFF (Only at Super Dynamic:		
	Dynamic F	Range	52 dB typical (Super Dynamic: ON,	Light Control mode: Indoor)	
	Adaptive E	Black Stretch	ON / OFF		
	AGC		ON (LOW, MID, HIGH) / OFF		
		Sensitivity UP	OFF, max. 2/30 s, max. 4/30 s, max	6/30 s max 10/30 s max 16/30	
		White Mode	Mode: AUTO1 / AUTO2 / AUTO3 /		
				ON / OFF	
		se Reduction	High / Low		
	Video Motion Detection Privacy Zone		4 areas, Sensitivity: 15 steps, Dete	ction size: 10 steps	
			Up to 8 zones, Gray / Mosaic		
			ON / OFF		
	Auto Image Stabilizer Camera Title (OSD)		Up to 20 alphanumeric characters	(3 selectable character sizes)	
				(O SCICCIADIC CHARACTER SIZES)	
Lens	Focal Length		3.3 mm ~ 119 mm	11/04)	
	Zoom Ratio		36x / 72x with extra optical zoom (
	Digital (Electronic) Zoom		12x (Max. 864x combined with ext		
	Angular Field of View		H: 1.7° (Tele) ~ 60.2° (Wide), V: 1.3	° (Tele) ~ 46.0° (Wide)	
	Maximum Aperture Ratio		1 : 1.4 (Wide) ~ 4.8 (Tele)		
			2.0 m ~ ∞		
	Focusing Range Aperture Range		F1.4 ~ 22, Close		
Pan and Tilt					
ranana nit	Panning R		360° endless	050 (" " "	
	Panning S	peed	Manual: approx. 0.065°/s ~ 120°/s, Up to	256 steps (depending on the controlle	
			Preset: up to approx. 400°/s		
	Tilting Range Tilting Speed		-15° ~ 185° (upward-level-downwa		
			Tilting angle limit: 10° / 5° / 3° / 0°		
			Manual: approx.0.065°/s ~ 120°/s, Up to 256 steps (depending on the controller)		
	i iiiiii g ope		Preset: up to approx. 400°/s		
	D	l Pan/Tilt Control			
			Yes		
		Preset Positions	256		
	Auto Mode		preset sequence / auto pan / auto	track / patrol	
	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 /		
	Seir Return		30 min / 60 min		
	Map Shot		360° map shot / preset map shot		
Browser GUI	Camera Control		Pan/Tilt (16 steps), Zoom, Focus, C	Click centering, Drag zoom, Iris,	
			Preset position call and program, Auto mode		
			Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
	Display Wode		screens or 16 split screen (JPEG only). 20 characters camera title available.		
				. 20 Characters carriera title available	
	Clock Display		Up to 20 alphanumeric characters		
			Time: 12H / 24H, Date: 5 formats on the	browser, Summer time (Manual/AUTO	
	Alarm Con		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 Memor	y Data Download	Still or motion images recorded in		
	OD WICHION	y Data Download	be downloaded.	the obitorob memory card can	
	0111/0			E F E	
	GUI/Setup	Menu Language	English, French	English, French, Italian, Spanish,	
			(Installation required for French)	German, Russian (Installation	
				required except for English)	
	System Lo	g	Up to 100 (Internal), Up to 4,000 (S	DHC/SD memory when the	
	-		recording format is set to JPEG.) e		
	Supported	OS *1	Microsoft® Windows® 7		
	Supported OS *1		Microsoft® Windows® 7 Microsoft® Windows Vista®		
			Microsoft® Windows® XP SP3		
	Supported Browser		Windows® Internet Explorer® 9.0 (32 bit)		
			Windows® Internet Explorer® 8.0 (32 bit)		
			Windows® Internet Explorer® 7.0 (3	2 bit)	
			Microsoft® Internet Explorer® 6.0 S		
Network	Network II	:	10Base-T / 100Base-TY R I-45 co	H.264: 1,280 × 960 / 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
Network	Network IF		10Base-T / 100Base-TX, RJ-45 co	U ^ 48U/ / U//CV (33U ^ 34U/ ···· +0 00 f-	
Network	Image	Aspect ratio:	H.264: 1,280 × 960 / 800 × 600 / VGA (64		
Network	Image Resolution	Aspect ratio:	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA	(320 × 240), up to 30 fps	
Network	Image	Aspect ratio:	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800	(320 × 240), up to 30 fps	
Network	Image Resolution	Aspect ratio: [4:3]	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) /	
Network	Image Resolution	Aspect ratio:	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) /	
Network	Image Resolution	Aspect ratio: [4:3]	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps	
Network	Image Resolution *2 *3	Aspect ratio: [4:3] Aspect ratio: [16:9]	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3. JPEG (MJPEG): 1,280 × 720 / 640	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps	
Network	Image Resolution *2 *3	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3. JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort	
Network	Image Resolution *2 *3 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/12/15/20/30	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps	
Network	Image Resolution *2 *3	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode	H.264: 1,280 × 960 / 800 × 600 / VGA [46] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJ)PEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJ)PEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/12/15/20/30 64/128/256/384/512/768/1.	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 /	
Network	Image Resolution *2 *3 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client	H.264: 1,280 × 990 / 800 × 600 / VGA [46] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3. JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimitted * I	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 /	
Network	Image Resolution *2 *3 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate	H.264: 1,280 × 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3. JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 64 / 128 / 256 / 384 / 512 / 768 / 1. 4,096 / 8,192* kbps / Unlimited * I- LOW / NORMAL / FINE	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only	
Network	Image Resolution *2 *3 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client	H.264: 1,280 × 990 / 800 × 600 / VGA [46] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3. JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimitted * I	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only	
Network	Image Resolution *2 *3 H.264/ MPEG-4	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	H.264: 1.280 × 990 / 800 × 600 / VGA [48] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * I LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s /	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type	H.261 (1.280 × 990 / 800 × 600 / VGA [46] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3. JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 4 / 128 / 256 / 384 / 512 / 768 / 14,096 / 8,192* kbps / Unlimited * ILOW / NORMAL / FINE 0.2 s / 0.25 / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	H.264: 1,280 × 960 / 800 × 600 / VGA [48] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.284: 1,286 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 12 / 16 / 20 / 30 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192 * kbps / Unlimited * I+ LOW / NORMAL / FINE O.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 1 0 steps	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG)	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type	H.264: 1.280 × 990 / 800 × 600 / VGA [48] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 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 10 steps PULL / PUSH	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps .024 / 1,536 / 2,048 / 3,072 / 1,264 mode only 2 s / 3 s / 4 s / 5 s	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression	H.261.1280 x 990 / 800 x 600 / VGA [46] MPEG-4: VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 800 QVGA (320 x 240), up to 30 fps H.264: 1,280 x 720 / 640 x 360 / 3. JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 17.3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 44 / 128 / 265 (384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * I- LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 10 steps PULLL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps	(320 × 240), up to 30 fps × 600 / V/GA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only 2 s / 3 s / 4 s / 5 s	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG)	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression	H.264: 1.280 × 990 / 800 × 600 / VGA [48] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 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 10 steps PULL / PUSH	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only 2 s / 3 s / 4 s / 5 s	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression	H.264: 1,280 × 960 / 800 × 600 / VGA [46] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7,5 / 10 / 12 / 16 / 20 / 30 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192 kbps / Unlimited * I LOW / NORMAL / FINE D.2 s / 0,25 s / 0,33 s / 0,5 s / 1 s / UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps G.726 (ADPCM) 32 kbps / 16 kbps	(320 × 240), up to 30 fps × 600 / V/GA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only 2 s / 3 s / 4 s / 5 s	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moo	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression le	H.264: 1.280 × 990 / 800 × 600 / VGA [46] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * 1 LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic (Line) input / Audio outp	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 1024 / 1,536 / 2,048 / 3,072 / 1,264 mode only 2 s / 3 s / 4 s / 5 s , G.711 64 kbps ut / Interactive (Half duplex) /	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression fet tition for Audio	H.261.1280 x 990 / 800 x 600 / VGA [46] MPEG-4: VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 800 QVGA (320 x 240), up to 30 fps H.264: 1,280 x 720 / 640 x 360 / 3. JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 17.3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 44 / 128 / 265 (384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * I- LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic (Line) input / Audio outp Interactive (Full duplex) Level 1 only / Level 2 higher / All us	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps .024 / 1,536 / 2,048 / 3,072 / 1,264 mode only 2 s / 3 s / 4 s / 5 s 	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc Authentica Total Bit R	Aspect ratio: [4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression le le tition for Audio ate	H.264: 1.280 × 960 / 800 × 600 / VGA [48] MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 H.265: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 × 360 / 3 H.266: 1,280 × 720 / 640 / 3 H.266: 1,280 × 720 / 640 / 3 H.266: 1,280 × 720 / 640 /	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 0.024 / 1,536 / 2,048 / 3,072 / 4.264 mode only 2 s / 3 s / 4 s / 5 s ut / Interactive (Half duplex) / sers / 2,048 / 4,096 / 8,192 kbps / Unlimiter	
Network	Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc	Aspect ratio: [4:3] Aspect ratio: [16:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression le le tition for Audio ate	H.261.1280 x 990 / 800 x 600 / VGA [46] MPEG-4: VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 800 QVGA (320 x 240), up to 30 fps H.264: 1,280 x 720 / 640 x 360 / 3. JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 17.3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 44 / 128 / 265 (384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * I- LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic (Line) input / Audio outp Interactive (Full duplex) Level 1 only / Level 2 higher / All us	(320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort fps 0.024 / 1,536 / 2,048 / 3,072 / 1.264 mode only 2 s / 3 s / 4 s / 5 s , G.711 64 kbps ut / Interactive (Half duplex) / sers / 2,048 / 4,096 / 8,192 kbps / Unlimite , FTP, SMTP, DNS, NTP, SMMP, DHCP.	

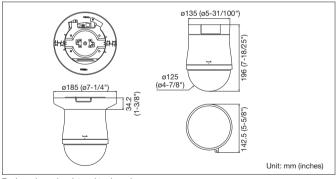
TV System	l .	NTSC	PAL		
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission			
		is failed, backup on an optional SDHC/SD memory card is available.)			
	No. of Simultaneous Users				
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC			
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure			
		Compatible SD (SDHC) card: Panasonic 256 MB, 512 MB, 1 GB,			
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* 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 , Auto track			
	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, Auto track			
	Alarm Log	With SD memory card: 5,000 logs, Without SD memory card: 1,000			
	Schedule Alarm/VMD/Access permission, Preset position call, Posit				
Input /	Monitor Output	1.0 V [P-P] / 75 Ω, NTSC composite, 1.0 V [P-P] / 75 Ω, PAL composit			
Output	(for adjustment)	BNC	BNC		
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack			
		(Applicable microphone: Plug-in power type),			
		Supply voltage: 2.5 V ±0.5 V, Input impedance: approx. 2 kΩ			
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level			
	External I/O Terminals	ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT,			
		ALARM IN 3 / AUX OUT (x1 each)			
General	Safety/EMC Standard	UL (UL60950-1), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024)		
		C-UL (CAN/CSA C22.2 No.60950-1),			
		DOC (ICES003 ClassA)			
	Power Source/	12 V DC: approx. 1A			
	Consumption	PoE: approx. 48 V 250 mA (IEEE802.3af compliant, Class 0 device)			
	Ambient Operating	-10 °C ~ +50 °C (14 °F ~ 122 °F),			
	Temperature/Humidity	90 % or less (without condensation)			
	Dimensions	ø135 x 196 mm (H) (ø5-31/100" x 7-18/25")			
	Mass (approx.)	Camera: 1.2kg (2.65 lbs)			
		Accessories (Camera mount bracket, decorative cover): Approx. 200 g {0.44 lbs}			

^{*1} Microsoft Windows 7 Starter, Microsoft Windows Vista Starter and Microsoft Windows XP Professional 64-bit Edition are not supported. *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.
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