

HD Dome Network Camera



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
- 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

 Camera Fixing Scr 	r installation. cket (w/safety wire) 	Pow Coc *1 The (PDF *2 This	orative Cover
Optional Acc	essories		
Inner Dome Cover WV-Q157	Indoor Dome Covers WV-Q156C (Clear)		Embedded Ceiling Mount Brackets WV-Q155C (Clear)



Not compatible with optional accessories of conventional cameras

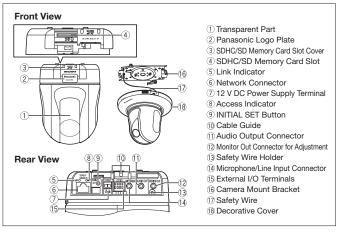
Specifications

TV System			NTSC	PAL	
Camera	Image Sen		1/3 type MOS Sensor		
	Effective P Scanning M		Approx. 1.3 megapixel Progressive scan		
	Scanning /			× 5/32" (\/)	
	Minimum I		4.8 mm (H) x 3.6 mm (V) (3/16" (H) × 5/32" (V)) Color: 0.6 lx (F1.6, Auto slow shutter: Off (1/30 s), AGC: High, WDR Off)		
			0.038 lx (F1.6, Auto slow shutter: Off (1/30 s), AGC: High, WDR Off) BW: 0.5 lx (F1.6, Auto slow shutter: Off (1/30 s), AGC: High)		
	White Bala	INCE	0.031 lx (F1.6, Auto slow shutter: max. 16/30 s, AGC: High) ATW1 / ATW2 / AWC		
	Light Cont		Indoor scene (50 Hz / 60 Hz) / Outo	door scene / Fix shutter	
	Shutter Speed		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		
	Wide Dynamic Range		ON / OFF		
	Face Wide Dynamic Range Adaptive Black Stretch		ON / OFF ON / OFF		
	AGC		ON (LOW, MID, HIGH) / OFF		
	Auto Slow	Shutter and White Mode	OFF (1/30 s), max. 2/30 s, max. 4/30 s, OFF / AUTO	max. 6/30 s, max. 10/30 s, max. 16/30	
		se Reduction	High / Low		
	Video Moti	ion Detection	ON / OFF, 4 areas available		
	Privacy Zo		ON / OFF (up to 2 zones available)		
	Up Side Do		Ceiling mount only		
	Image Stabilizer Camera Title (OSD)		ON / OFF ON / OFF		
ens	Focal Length		4.7 mm ~ 84.6 mm		
	Zoom Ratio		18x / 36x with extra optical zoom (
	Digital (Electronic) Zoom		8x (Max. 288x combined with extra		
	Angular Field of View Maximum Aperture Ratio		H: 3.2° (Tele) ~ 55.2° (Wide), V: 2.4° (Tele) ~ 42.1° (Wide) 1 : 1.6 (Wide) ~ 2.8 (Tele)		
	Focus Range		1.5 m ~ ∞		
Pan and Tilt	Aperture Range		F1.6 ~ 22, Close 0° ~ 350°		
	Panning Range		0° ~ 350° Manual: approx. 0.5°/s ~ 100°/s, Preset: up to approx. 300°/s		
	Panning Speed Tilting Range		-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 Yes		
	Proportional Pan/Tilt Control 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 10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min		
	Self Return Pan/tilt flip *1		ON / OFF		
	Map Shot		360 map shot / preset map shot		
Browser GUI	Camera Co		Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode		
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only). 20 characters camera title available.		
	Camera Title		Up to 20 characters (alphanumeric characters, marks), Character size: Small		
	Camera Tit	tle			
	Clock Disp	olay	Up to 20 characters (alphanumeric cha Time: 12H / 24H, Date: 5 formats on the	aracters, marks), Character size: Sma	
	Clock Disp Alarm Con	lay trol	Up to 20 characters (alphanumeric cha Time: 12H / 24H, Date: 5 formats on the Reset	aracters, marks), Character size: Sma e browser, Summer time (Manual/AUTO	
	Clock Disp	lay trol	Up to 20 characters (alphanumeric cha Time: 12H / 24H, Date: 5 formats on the	aracters, marks), Character size: Sma e browser, Summer time (Manual/AUTC a newly opened window.	
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Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Network IF Image Resolution *2 *3	lay trol Capture Pata Download Menu Language 9 OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed or a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Profess The language of the OS must be si Windows® Internet Explore® 6.0(2bil) (Microsoft® Windows® Internet Explore® 6.0(2bil) (Microsoft® Microsoft® 1.280 × 960 / 400 / 424 × 45 JPEG (MJPEG): 1.280 × 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 15 / 20 / 30 / ps 64 / 128 / 256 / 384 / 512 / 78 / 1	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC a newly opened window. adjustment: Low / Middle / High, djustment: Low / Middle / High, HC/SD memory card can be downloade English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the rror logs mal 64 bit/32 bit, eses SP1 32 bit, ional SP3 ame as selected GUI language. sottl® Windows® 7 Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, di® Windows® XP Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, di® Windows Vista® Business SP1 32 bit, sottl® Vindows® XP Professional SP3) nnector 30 / QVGA (320 x 240), up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, 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 fp 024 / 1,536 / 2,048 / 3,072 /	
Vetwork	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3	lay trol Capture / Data Download Menu Language g OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession The language of the OS must be signification Microsoft® Mindows® XP Profession 10Base-T / 100Base-Tx, NL-45 co H.264: 1,280 x 960 / VGA (640 x 480) APEG (MJPEG): 1,280 x 720 / 640 APEG (MJPEG): 1,280 x 720 /	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC a newly opened window. adjustment: Low / Middle / High, djustment: Low / Middle / High, HC/SD memory card can be downloade English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the rror logs mal 64 bit/32 bit, eses SP1 32 bit, ional SP3 ame as selected GUI language. sottl® Windows® 7 Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, di® Windows® XP Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, di® Windows Vista® Business SP1 32 bit, sottl® Vindows® XP Professional SP3) nnector 30 / QVGA (320 x 240), up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, 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 fp 024 / 1,536 / 2,048 / 3,072 /	
Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3	lay trol Capture / Data Download Menu Language 9 OS Browser : Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transnission Mode Bit Rate/Client Image Quality	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Professis Microsoft® Windows® 7 Professis The language of the OS must be s 2018 Internet Explore® 8.0 (32 bil) Micr Windows® Internet Explore® 7.0 (Microsoft® Microsoft® Internet Explore® 6.0 (32 hi) Micr Microsoft® Internet Explore® 6.0 (32 hi) Microsoft® (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 EVANNE	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC a newly opened window. adjustment: Low / Middle / High, HC/SD memory card can be downloade English, French, Italian, Spanish, German, Russian (Installation required except for English) iDHC/SD memory when the rror logs mal 64 bit/32 bit, ional SP3 ame as selected GUI language. assft 4 bit/32 bit, ional SP3 ame as selected GUI language. assft Windows® XP Professional 64 bit/32 bit Window Vista® business SP1 32 bit, otf@ Windows® XP Professional 64 bit/32 bit window SV Professional 64 bit/32 bit window SV Professional 64 bit/32 bit window Vista® business SP1 32 bit, otf@ Windows® XP Professional 64 bit/32 bit window SV 240, up to 30 fps x 480 / 320 x 240), up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 240 / 320 x 24 / 320 x	
Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3	lay trol Capture / Data Download Menu Language g OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client	Up to 20 characters (alphanumeric ch Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Professio Microsoft® Windows® 7 Professio Microsoft® Windows® AP Professio The language of the OS must be si Windows® Internet Explore® 6.0 (St bill Micr Windows® Internet Explore® 6.0 (St bill Micr Windows® Internet Explore® 6.0 (St bill Micr Windows® Internet Explore® 6.0 (St bill Micr Microsoft® Undows Victa (Ad 640 x 480) (VQKA 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 4,086 / 8,192* kbps / Unlimited * H LOW / NORMAL / FINE	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC a newly opened window. adjustment: Low / Middle / High, HC/SD memory card can be downloade English, French, Italian, Spanish, German, Russian (Installation required except for English) iDHC/SD memory when the rror logs mal 64 bit/32 bit, ional SP3 ame as selected GUI language. assft 4 bit/32 bit, ional SP3 ame as selected GUI language. assft Windows® XP Professional 64 bit/32 bit Window Vista® business SP1 32 bit, otf@ Windows® XP Professional 64 bit/32 bit window SV Professional 64 bit/32 bit window SV Professional 64 bit/32 bit window Vista® business SP1 32 bit, otf@ Windows® XP Professional 64 bit/32 bit window SV 240, up to 30 fps x 480 / 320 x 240), up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 240 / 320 x 24 / 320 x	
Vetwork	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2	lay capture Capture Data Download Menu Language 9 OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transnission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Image Quality	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: Ch / OFF Volume Audio Output: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG), le Microsoft® Windows® 7 Professio Microsoft® Windows® XP Professio Microsoft® Windows® XP Professio Microsoft® Windows® XP Professio Microsoft® Windows® XP Professio Microsoft® Vindows® XP Professio Microsoft® Nindows® Nata® Busin Microsoft® Nindows® XP Professio 10Base-T / 100Base-TX, FJ-45 co H.264: 1,280 x 960 / VGA (640 x 44 MFEG-4: VGA (640 x 440) / QVGA 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 x 367 / 33 JPEG (MJPEG): 1,280 x 720 / 640 x 450 / 13 / 57 / 57 / 10 / 15 / 20 / 30 / ps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192 / Nbps / Unlimited * H LOW / NORMAL / FINE D.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 M	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC a newly opened window. adjustment: Low / Middle / High, HG/SD memory card can be downloade English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the rror logs sess SP1 32 bit, ional SP3 ame as selected GUI language. tests by Hotessional SP3 meters Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit), oft® Windows® Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit), oft® Windows® Professional SP3 nonector 30) / QVGA (320 x 240), up to 30 fps x 360 / 320 x 180, up to 30 fps x 360	
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Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi	lay trol Capture 2 Data Download Menu Language 9 OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type on Interval	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG), e Microsoft® Windows® 7 Professio Microsoft® Windows® XP Professio Microsoft® Nindows® XP Professio Microsoft® Internet Explore® 8.0 (32 bit) (Micr Windows® Internet Explore® 8.0 (32 bit) (Microsoft® Microsoft® 1.280 x 980 / 460 Microsoft® 1.280 x 980 / 460 MPEG-4: VGA (640 x 480 / 32) JPEG (MJPEG): 1,280 x 960 / 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 0 SUPER FINE / 1 NIE / 2/3/4 / 5 NC PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate w both JPEG and H.264/MPEG-4 im	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC a newly opened window. a dijustment: Low / Middle / High, dijustment: Low / Middle / High, dijustment: Low / Middle / High, derman, Russian (Installation required except for English) DHC/SD memory when the rror logs mal 64 bit/32 bit, eess SP1 32 bit, ional SP3 ame as selected GUI language. soft@ Windows@ P Professional 64 bit/32 bit Windows Vista@ Business SP1 32 bit, ional SP3 ame as selected GUI language. soft@ Windows@ NP Professional SP3) nnector 00) / QUGA (320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps y/ Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fp 0 / 24 / 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: 04 vill be restricted when displaying ages.)	
Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 '3 H.264/ MPEG-4 *2	lay capture Capture Data Download Menu Language g OS Browser Aspect ratio: [4 : 3] 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 on Interval pression	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume a Audio Output: ON / OFF Volume a Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession 10Base-1 / 100Base-Tx, NJ-45 co H.264: 1,280 x 720 / 640 x 480 / VGIA MPEG-4: VGA (640 x 480 / VGIA (640 x 480 / MPEG: 1,280 x 720 / 640 x 360 / 33 JPEG (MJPEG): 1,280 x 720 / 640 1.3 / 5 / 7.5 / 10 / 15 / 20 / 30 / pis 64 / 128 / 256 / 384 / 512 / 768 / 11 4.096 / 6, 192* kbps / Unlimited * H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 0.SUPER FINE / 1FINE / 2 / 3 / 4 5 NG PULL / PUSH	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC anewly opened window. adjustment: Low / Middle / High, flustment: Low / Middle / High, HC/SD memory card can be downloade [English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the rror logs mal 64 btl/32 bit, eses SP1 32 bit, ional SP3 ame as selected GUI language. cost6% Windows® 7 Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, oft@ Windows® XP Professional SP3 motector 30) / QVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 360 / 320 x 240, up to 30 fps y / Best effort [1/3/5/7.5/10/12/15/20/30 fp 024 / 1,536 / 2,048 / 3,072 / L264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0- will be restricted when displaying ages.) , G.711 64 kbps	
Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Com	lay capture Capture Data Download Menu Language 9 OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type on Interval pression Ie tion for Audio	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Profess The language of the OS must be si Windows® Internet Explore® 6.0 (2b til) (Microsoft® Windows® Internet Explore® 7.0 (Microsoft® Windows® Internet Explore® 6.0 (2b til) (Microsoft® Microsoft® Internet Explore® 7.0 (Microsoft® Microsoft® Internet Explore® 7.0 (Microsoft® 10Base-T / 100Base-TX, RJ-45 co 1.264 : 1,280 x 960 / VGA VPEG 4. (VGA (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 15 / 20 / 30 (7s) JPEG (MJPEG): 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 15 / 20 / 30 fp G / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8, 192* kbps / Unimited* H LOW / NORMAL / FINE 0.2 s / 0.2 s / 0.2 s / 0.3 s / 0.5 s / 1 s / UNICAST / MULTICAST 0.5 UPER FIRL / 1 FINE / 2 / 3 / 4 / 5 NC PULL / PUSH 0.1 Tps - 30 Tps (JPEG frame rate w both JPEG and H.264/MPEG-4 im G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic (Line] input / Audio output / Inter	aracters, marks), Character size: Smal a browser, Summer time (Manual/AUTC a newly opened window. a dijustment: Low / Middle / High, dijustment: Low / Middle / High, HC/SD memory card can be downloade English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the rror logs mal 64 bit/32 bit, teess SP1 32 bit, tional SP3 ame as selected GUI language. sottl® Windows® 7 Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, ond Works Business SP1 32 bit, ond Windows® XP Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, ond Windows® XP Professional 520; nnector 00 / QVGA (320 x 240), up to 30 fps x 480 / 320 x 240 / 320 x 240, up to 30 fps x 480 / 320 x 240 / 320 x 240, up to 30 fps x 480 / 320 x 240 / 320 x 240 / 320 x	
Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Supported Network IF Image Resolution *2 *3 H.266/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Moc	lay rol Capture Pata Download Menu Language 9 OS Browser Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Image Quality Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type Transmission Type Image Quality Transmission Type Transmission Type	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Profession Microsoft® Windows® XP Strate Busin Microsoft® Windows® XP Strate Busin Microsoft® Microsoft® X0 Microsoft® Microsoft® 100Base-T / 100Base-T / 100Base-T / 100Base-T / 100Base-T / 100Base-T / 2005 200 Micro Microsoft® 1,280 x 960 / 440 MPEG-4: VGA (640 x 480) / 0VGA JPEG (MJPEG): 1,280 x 720 / 440 Constant bitrate / Framerate prioriti 1/3/5/7.5/10/15/20/30 fps 6/1 / 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 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NC 0 SUPER FINE / 1 F	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC an ewly opened window. adjustment: Low / Middle / High, flightment: Low / Middle / High, HC/SD memory card can be downloade English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the rror logs mal 64 bit/32 bit, eses SP1 32 bit, ional SP3 ame as selected GUI language. tess SP1 32 bit, ional SP3 ame as selected GUI language. tess SP1 32 bit, oft% Windows% XP Professional 64 bit/32 bit Windows (Viste® Business SP1 32 bit), oft% Windows% XP Professional SP3) mnector 00) / QVGA (320 x 240), up to 30 fps (320 x 240), up to 30 fps v 480 / 320 x 240, up to 30 fps v / Best effort 1 / 37 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fp (224 / 1,536 / 2,048 / 3,072 / L264 mode Only 2 s / 3 s / 4 s / 5 s DRMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-4 vill be restricted when displaying ages.) active (Half duplex) / Interactive (Full duple sers 2,044 / 4,096 / 8,192 kbps / Unlimiter	
Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Com	lay rol Capture Pata Download Menu Language 9 OS Browser Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Image Quality Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type Transmission Type Image Quality Transmission Type Transmission Type	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Profess The language of the OS mustles as Microsoft® Windows® XP Profess The language of the OS mustles as Microsoft® Windows® XP Profess The language of the OS mustles as Microsoft® Windows® XP Profess The language of the OS mustles as Microsoft® Nindows® Nate SS Microsoft Windows® Internet Explore® 6.0(2bit) (Microsoft Windows® Internet Explore® 7.0 Microsoft Microsoft (S) (A (640 x 480) / QVGA JPEG (MJPEG): 1,280 x 960 / 640 H.264: 1,280 x 720 / 640 Constant bitrate / Framerate priorit 1/3 / 5 / 7.5 / 10 / 15 / 20 / 30 fp G/ 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8, 192* kbps / Unimited * H LOW / NORMAL / FINE OLS / 0.25 s / 0.33 s / 0.5 s / 1 s / UNICAST / MULTICAST 0.SUPER FINE / T FINE / 2 / 3 / 4 / 5 NC PULL / PUSH 0.1 Tps - 30 Tps (JPEG frame rate w but) JPEG and H.264/MPEG-4 im G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic (Line) input / Audio output / Inter Evel 1 only / Level 2 higher / All ur 64 / 128 / 256 / 384 / 512 / 768 / 11,248 IPvé: TCP/IP, UDP/IP, HTTP, HTTP, RTTF Evel: ToP/IP, UDP/IP, HTTP, HTTP, RTTF	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC a newly opened window. adjustment: Low / Middle / High, djustment: Low / Middle / High, djustment: Low / Middle / High, digustment: Low / Middle / High, digustment: Low / Middle / High, derman, Russian (Installation required except for English) DHC/SD memory when the rror logs mal 64 bit/32 bit, eses SP1 32 bit, ional SP3 ame as selected GUI language. costl® Windows® 7 Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, di® Windows® XP Professional 64 bit/32 bit Windows Vista® Business SP1 32 bit, di® Windows Vista® Business SP1 32 bit, soft@ Windows® XP Professional SP3) nnector 30/ QVGA (320 x 240), up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps will set effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fp Q24 / 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: 0-4 will be restricted when displaying ages.) , G.711 64 kbps active (Half duplex) / Interactive (Full duple sers / 2,044 / 4,096 / 8,192 kbps / Unlimiter 2, RTSP, RTP, RTP/RTCP,	
Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Supported Network IF Image Resolution *2 *3 H.266/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Moc	lay capture Capture / Data Download Menu Language g OS Browser Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Image Quality Transmission Type Image Quality Image Quality Image Quality Image Quality Ima	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: CN / OFF Volume Audio Output: ON / OFF Volume and Still or motion images recorded in the SD English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG), le Microsoft® Windows® 7 Professio Microsoft® Windows® XP Professio Microsoft® Windows® XP Professio Microsoft® Windows® XP Professio Microsoft® Windows® XP Professio Microsoft® Vindows® XP Professio Microsoft® Nindows® XP Professio 108ase+T / 108Bse+T, 71.45 co 80 (MIPEG): 1,280 x 960 / 400 x 460 / 400 / 401 Microsoft® Nindows® XP Professio Microsoft® Nindows® XP Professio Microsoft® Nindows® XP Professio 0,1264 / 1,280 x 960 / 400 x 460 / 400 / 401 Microsoft® Nindows® XP Professio 0,1264 / 1,280 x 960 / 1,280 x 960 / 400 y 0/148 0,297 (MIPEG): 1,280 x 960 / 400 y 0/148 1,406 / 1,280 / 1,280 x 960 / 400 y 0/148 1,406 / 1,280 / 2,60 / 384 / 512 / 768 / 1,024 1,406 / 1,280 / 2,60 / 384 / 512 / 768 / 1,024 1,407 / 1,407	aracters, marks), Character size: Sma a browser, Summer time (Manual/AUTC a newly opened window. adjustment: Low / Middle / High, djustment: Low / Middle / High, djustment: Low / Middle / High, digustment: Low / Middle / High, derman, Russian (Installation required except for English) DHC/SD memory when the rror logs and 64 bit/32 bit, eess SP1 32 bit, ional SP3 ame as selected GUI language. cosft® Windows® 7 Professional 64 bit/32 bit Windows VIsta® Business SP1 32 bit, ional SP3 ame as selected GUI language. cosft® Windows® VP Professional 64 bit/32 bit Windows VIsta® Business SP1 32 bit, ional SP3 ame as selected GUI language. cosft® Windows® VP Professional SP3 mnector 30) / QVGA (320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 180, up to 30 fps y/ Best effort 11 / 3 / 5 / 7 .5 / 10 / 12 / 15 / 20 / 30 fp (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: 0-4 will be restricted when displaying ages.) r (2,048 / 4,096 / 8,192 kbps / Unlimiter y Steps, RTP, RTP/RTCP, ITP, SIMP, UPAP	
Network	Clock Disp Alarm Con One Shot (Audio SD Memory GUI/Setup System Lo Supported Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Transmissi Audio Com Audio Moc Autientica	lay capture Capture Data Download Menu Language g OS Browser Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Trans	Up to 20 characters (alphanumeric ch. Time: 12H / 24H, Date: 5 formats on the Reset A still picture will be displayed on a Mic (Line) Input: ON / OFF Volume and Still or motion images recorded in the SD English, French (installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession Microsoft® Microsoft® Alphanet Explore® 6.0 SP3 (Microsoft® Microsoft® 100Base-T / 10	aracters, marks), Character size: Small a browser, Summer time (Manual/AUTC an ewly opened window. adjustment: Low / Middle / High, digustment: Low / Middle / High, HC/SD memory card can be downloade English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the rror logs mall 64 bit/32 bit, eses SP1 32 bit, ional SP3 ame as selected GUI language. ess SP1 32 bit, ional SP3 ame as selected GUI language. soft@ Windows@ 7 Professional 64 bit/32 bit Windows Vista@ Business SP1 32 bit, oft@ Windows@ 7 Professional 64 bit/32 bit Windows Vista@ Business SP1 32 bit, oft@ Windows@ 7 Professional SP3) nmector 00) / QVGA (320 x 240), up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps x 480 / 320 x 240, up to 30 fps will be restricted when displaying ages.) / 2, G.711 64 kbps active (Half duplex) / Interactive (Full duples sers / 2,044 / 4,096 / 8,192 kbps / Unlimiter / FTP, SMTP, DNS, NTP, SNMP, DHCPV ransmission (When the FTP transmissio D memory card is available.)	

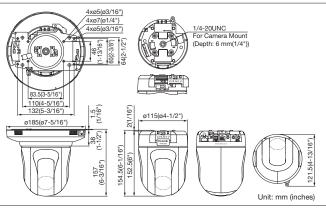
TV System		NTSC	PAL	
Network	Maximum Concurrent	Up to 14		
	Access Number	(Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (PRE/Post) / Schedule REC		
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network fa		
		Compatible SD (SDHC) 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, Auto track		
	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, 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),		
			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.)		

"1 The pan/till-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/till-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.

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