

Super Dynamic Weather Resistant HD Dome Network Camera WV-SW395



HD/1,280 x 960 H.264 Weather Proof Camera featuring 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
- 18x optical zoom with 12x digital zoom enabling 216x zoom. 36x extra optical zoom under VGA resolution with 12x digital zoom enabling 432x 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 F1.6 (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.
- Auto 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 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 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 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
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at Does not support IEEE802.3af
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- \bullet Built-in fan/heater/sun shield for temperature changes of –40 °C \sim +50 °C $(-40 \text{ °F} \sim +122 \text{ °F})$ (24 V AC), -30 °C $\sim +50 \text{ °C}$ (-22 °F $\sim 122 \text{ °F})$ (PoE+)

Standard Accessories

Optional Accessory

Wall Mount Bracket WV-Q122 (PAL model only)

- This catalog is provided for all over the world. Some accessories may not be available in some countries
- User License Accessory (For MPEG-4) BB-HCA5A (NTSC model) BB-HCA5CE (PAL model, Korea)*
- User License Accessory (For H.264) BB-HCA8A (NTSC model) BB-HCA8CE (PAL model, Korea)*

Specifications

TV System Camera				
			NTSC	PAL
	Image Sen	isor	1/3 type MOS Sensor	
	Effective P		Approx. 1.3 megapixel	
	Scanning Mode		Progressive scan	
	Scanning Area		4.8 mm (H) x 3.6 mm (V)	
	Minimum Illumination		Color: 0.5 lx, B/W: 0.06 lx at F1.6 (Shutter: 1/30 s, AGC: High),	
			Color: 0.031 lx, B/W: 0.004 lx at F1.6 (Shutter: 16/30 s, AGC: High)	
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)	
	Light Control Mode		Indoor scene (50 Hz / 60 Hz) / Outdoor scene / Fix shutter	
	Shutter Speed		Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100,	
	Orlatter opeca		1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
	Super Dynamic		ON / OFF	
	Face Super Dynamic		ON / OFF (Only at Super Dynamic: ON)	
			52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)	
	Dynamic Range Adaptive Black Stretch		ON / OFF	
	AGC		ON (LOW, MID, HIGH) / OFF	
			OFF, max. 2/30 s, max. 4/30 s, max	6/30 c may 10/30 c may 16/30
	Electronic Sensitivity UP		Mode: AUTO1 / AUTO2 / AUTO3 /	
	Black and White Mode		Level: High / Low, with external cor	
	Digital Naisa Reduction		High / Low	itioi
	Digital Noise Reduction		4 areas, Sensitivity: 15 steps, Deter	ation size: 10 stans
	Video Motion Detection			ction size. To steps
	Privacy Zone		Up to 8 zones, Gray / Mosaic	
	Auto Image Stabilizer		ON / OFF	
	Camera Title (OSD)		Up to 20 alphanumeric characters (3 selectable character sizes)	
Lens	Focal Length		4.7 mm ~ 84.6 mm	
	Zoom Ratio		18x / 36x with extra optical zoom (under VGA)	
	Digital (Electronic) Zoom		12x (Max. 432x combined with extra optical zoom under VGA)	
	Angular Field of View		H: 3.2° (Tele) ~ 55.2° (Wide), V: 2.4° (Tele) ~ 42.1° (Wide)	
	Maximum Aperture Ratio		1 : 1.6 (Wide) ~ 4.6 (Tele)	
	Focusing Range		1.5 m ~ ∞	
	Aperture Range		F1.6 ~ 22, Close	
an and Tilt	Panning Range		0° ~ 350°	
	Panning Speed		Manual: approx. 0.5°/s ~ 100°/s, Up to 256 steps (depending on the controller)	
	Tilting Range Tilting Speed		Preset: up to approx. 300°/s	
			-30° ~ 90° (upward-level-downward)	
			Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° *4 /	
			-25° *4 / -30° *4	
			Manual: approx.0.5°/s ~ 100°/s, Up to 256 steps (depending on the controller)	
	9		Preset: up to approx. 100°/s	
	Proportional Pan/Tilt Control		Yes	
	Number of Preset Positions		64	
	Auto Mode		OFF / preset sequence / auto pan / auto track	
	Image Hole	d	ON / OFF	
	PTZ Positi		ON / OFF	
	Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3	min / 5 min / 10 min / 20 min /
	OCII FICIAITI		30 min / 60 min	
	Pan/tilt Flip *1		ON / OFF	
	Map Shot		360° map shot / preset map shot	
Browser GUI			Pan/Tilt (16 steps), Zoom, Focus, C	Click centering Drag zoom Iris
Diowsei doi	Carriera Control		Preset position call and program, A	
	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 alphanumeric characters	. 20 onaractore carrora and available
	Clock Display		Time: 12H / 24H, Date: 5 formats on the	browser, Summer time (Manual/AUTO)
	Alarm Control		Reset	brower, carrinor and (manager to re-
	One Shot Capture		A still picture will be displayed on a	newly opened window.
	Audio		Mic (Line) Input: ON / OFF Volume	
	Audio		Audio Output: ON / OFF Volume a	
	SD Memory Data Download		Still or motion images recorded in t	
	SD WEITION	y Data Download	be downloaded.	tile 3Di 10/3D memory card can
	011110			
	OLIVO-tu-	Manu Lannuaga		Carlish Carach Halian Carainh
	GUI/Setup	Menu Language	English, French	English, French, Italian, Spanish,
	GUI/Setup	Menu Language		German, Russian (Installation
			English, French (Installation required for French)	German, Russian (Installation required except for English)
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	System Lo	og I OS	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) er Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession The language of the OS must be sa	German, Russian (Installation required except for English) DHC/SD memory when the roro logs al 64 bit/32 bit, ss SP1 32 bit, snal SP3 time as selected GUI language.
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	System Lo	og I OS	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 Wista® Busine Microsoft® Windows Notata® Busine Microsoft® Windows® XP Profession The language of the OS must be se Windows® Internet Explore® 8.0 Microsoft® Windows® Internet Explore® 7.0 (Microsoft Windows® 1.0	German, Russian (Installation required except for English) DHC/SD memory when the ror logs at 64 bit/32 bit, ss SP1 32 bit, and SP3 mme as selected GUI language. Tel Windows 7 Professional 64 bit/32 bit fit® Windows Vista® Business SP1 32 bit fit® Windows Vista® Business SP1 32 bit
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Network	Supported Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4	OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) et Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession The language of the OS must be se Windows® Internet Explorer® 8.0 Microsoft® Windows® Internet Explorer® 8.0 Microsoft® Micro	German, Russian (Installation required except for English) DHC/SD memory when the ror logs at 64 bit/32 bit, ss SP1 32 bit, and SP3 to 18 bit, so SP3 to 18
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Network	Supported Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4	Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) et microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession The language of the OS must be se Windows® Internet Explorer® 8.0 Microsoft® Microsoft® Microsoft® Windows® Internet Explorer® 6.0 SP3 (Mill 10Bass-T / 100Bass-T X, RJ-45 coll 1428 (MJPEG) (MJPEG): 1,280 × 960 / 800 VGA (64 MPEG-4: VGA) (640 × 480) / OVGA (64 MPEG-4: VGA) (640 × 480) / OVGA (94 MPEG-4: 1,280 × 720 / 640 × 360 / 33 JPEG (MJPEG): 1,280 × 72	German, Russian (Installation required except for English) DHC/SD memory when the ror logs at 64 bit/32 bit, ss SP1 32 bit, snal SP3 time as selected GUI language. 1 [®] Windows [®] 7 Professional 64 bit/32 bit ft [®] Windows Vista [®] Business SP1 32 bit crosoft [®] Windows VSP Professional SP3 nector 0 × 480 / OVGA (320 × 240), up to 30 fp s × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps / 10 × 180 / 10 ×
Network	Supported Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4	OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) et Microsoft® Windows® 7 Profession Microsoft® Windows® 7 Profession Microsoft® Windows® Wista® Busine Microsoft® Windows® Internet Explore® 8.0 (Microsoft® Mindows® Internet Explore® 8.0 (Microsoft® Internet Explore® 8.0 SP3 Mindows® Internet Explore® 8.0 SP3 Mindows® Internet Explore® 8.0 SP3 Mindows® Internet Explore® 6.0 SP3 Mindows® Internet Explore® 6.0 SP3 Mindows® Microsoft® Internet Explore® 7.0 Microsoft® Microsoft® Internet Explore® 7.0 Microsoft® Microsoft® Microsoft® 1.0 SP3 Mindows 1.0 Microsoft® 1.0 Microsoft® 1.0 Mindows 1.0 Mi	German, Russian (Installation required except for English) DHC/SD memory when the ror logs at 64 bit/32 bit, ss SP1 32 bit, snal SP3 time as selected GUI language. 1 [®] Windows [®] 7 Professional 64 bit/32 bit ft [®] Windows Vista [®] Business SP1 32 bit crosoft [®] Windows VSP Professional SP3 nector 0 × 480 / OVGA (320 × 240), up to 30 fp s × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps / 10 × 180 / 10 ×
Network	Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2	Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Aspect ratio: Inasmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) et Microsoft® Windows® 7 Profession Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession The language of the OS must be se Windows® Internet Explorer® 8.0 Microsoft® Windows® Internet Explorer® 7.0 Microsoft® Windows® Internet Explorer® 7.0 Microsoft® 7.0	German, Russian (Installation required except for English) DHC/SD memory when the ror logs at 64 bit/32 bit, ss SP1 32 bit, snal SP3 time as selected GUI language. 1 [®] Windows [®] 7 Professional 64 bit/32 bit ft [®] Windows Vista [®] Business SP1 32 bit crosoft [®] Windows VSP Professional SP3 nector 0 × 480 / OVGA (320 × 240), up to 30 fp s × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps / 10 × 180 / 10 ×
Network	Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2	OS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) et microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession The language of the OS must be se Windows® Internet Explorer® 8.0 Microsoft® Windows® Internet Explorer® 8.0 Microsoft® Micro	German, Russian (Installation required except for English) DHC/SD memory when the ror logs at 64 bit/32 bit, ss SP1 32 bit, snal SP3 time as selected GUI language. 1 [®] Windows [®] 7 Professional 64 bit/32 bit ft [®] Windows Vista [®] Business SP1 32 bit crosoft [®] Windows VSP Professional SP3 nector 0 × 480 / OVGA (320 × 240), up to 30 fp s × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps / 10 × 180 / 10 ×
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Network	Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con	Browser 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 Image Quality Transmission Type Image Page Rate Transmission Type Transmission Typ	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) et Microsoft® Windows® 7 Profession Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession The language of the OS must be se Windows® Internet Explorer® 8.0 Microsoft® Windows® Internet Explorer® 7.0 Microsoft® Windows® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Microsoft® Internet Explorer® 7.0 Microsoft® 10.0 Microsoft® 1.0	German, Russian (Installation required except for English) DHC/SD memory when the ror logs at 64 bit/32 bit, ss SP1 32 bit, and 64 bit/32 bit, ss SP1 32 bit, and 64 bit/32 bit, see selected GUI language. The Windows Vista® Business SP1 32 bit of Vista®
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Network	Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc Authentica	OS Browser Aspect ratio: [4 : 3] Aspect ratio: [6 : 9] Transnission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transnission Type pression Je tition for Audio ate	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) et Microsoft® Windows® 7 Profession Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession The language of the OS must be se Windows® Internet Explorer® 8.0 Microsoft® Windows® Internet Explorer® 7.0 Microsoft® Windows® Internet Explorer® 7.0 Microsoft® Unidows® Internet Explorer® 7.0 Microsoft® Unidows® Internet Explorer® 7.0 Microsoft® Unidows® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Unidows 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Jeff 2.0 Microsoft® 7.0 Jeff 2.0 Microsoft® 7.0 Jeff 2.0 Microsoft® 7.0 Jeff 2.0	German, Russian (Installation required except for English) DHC/SD memory when the ror logs al 64 bit/32 bit, ss SP1 32 bit, onal SP3 interest selected GUI language. The Windows Professional 64 bit/32 bit fit Windows Vista® Business SP1 32 bit, or sor with Windows Vista® Business SP1 32 bit, or sor with Windows Vista® Business SP1 32 bit, or sor with Windows Vista® Business SP1 32 bit, or sor with Windows Vista® Business SP1 32 bit, or sor with Windows Vista® Business SP1 32 bit, or sor with Windows Vista® Business SP1 32 bit, or sor with Windows Vista® Business SP1 32 bit, or sor with Windows Vista® Business SP1 32 bit, or sor with Vista SP1 12 bit, or sor w

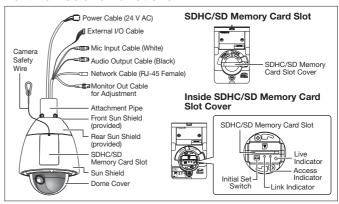
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC		
	(Option)	JPEG recording: Manual REC / Alarm R	EC (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 of	age, 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 po-	sition 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)	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 (UL60065), FCC (Part15 ClassA),	CE (EN60065, EN55022 ClassB,	
		C-UL (CAN/CSA C22.2 No.60065),	EN55024), GOST (GOST R 51558)	
		DOC (ICES003 ClassA)		
	Power Source/	24 V AC (50 Hz / 60 Hz): approx. 43 W Heater ON		
	Consumption	PoE Plus: approx. 24.0 W (IEEE802.3at compliant, Class 4 device) Heater ON		
	Ambient Operating	-40 °C ~ +50 °C (-40 °F ~ 122 °F) (24 V AC) *5,		
	Temperature/Humidity	-30 °C ~ +50 °C (-22 °F ~ 122 °F) (PoE Plus), 90 % or less (without condensation)		
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible		
	Dimensions	ø239 mm x 360.5 mm (H) (ø9-7/16" x 14-3/16" (H)), Diameter of the dome: 160 mm (6-5/16")		
	Mass (approx.)	4.6 kg (10.14 lbs.)		

Mass (approx.)

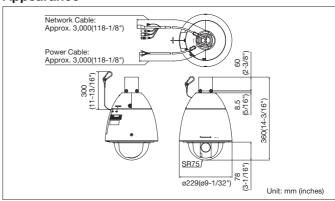
4.6 kg (10.14 lbs.)

1 Application software V.1.05 / Driver software V.1.22 or later. 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. 14 Images may partially covered depending on the housing brackets. 15 When used with a continuous power supply (camera internal temperature must be above -10°C, and installation and startup should be done at above -30°C.)

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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