

Super Dynamic III **Weather Resistant Dome Camera**

WV-CW970 Series (Advanced Auto Track) WV-CW960 Series

WV-CW964 (24 V AC)

NTSC WV-CW974 (24 V AC) PAL WV-CW970 (220 ~ 240 V AC) WV-CW974 (24 V AC) WV-CW960 (220 ~ 240 V AC) WV-CW964 (24 V AC)



All-in-one 24-hour outdoor surveillance camera featuring 30x zoom and Super Dynamic III

Key Features

- Super Dynamic III technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras.
- High resolution: 540 TV lines typical / 520 TV lines minimum (Color HIGH mode), 480 TV lines minimum (Color NORMAL mode), 570 TV lines minimum (B/W mode)
- High sensitivity with Day/Night function: 0.5 lux (Color) at F1.4 (Wide), 0.04 lux (B/W) at F1.4 (Wide). IR cut filter switches on/off to enhance the sensitivity in B/W mode.
- Adaptive Digital Noise Reduction: Integration of 2D-DNR and 3D-DNR ensures noise reduction in various conditions.
- Electronic sensitivity enhancement: Auto (Up to 32x) / Manual (Up to 32x)
- Electronic shutter from 1/100 (NTSC), 1/120 (PAL) to 1/10,000 sec.
- 30x zoom lens: 3.8 ~ 114 mm (approx. 300x with digital zoom)
- Pan/Tilt speed of max. 400°/s at preset mode and 0.065°/s super fine control at manual mode
- 5 degrees upper view for various applications
- 256 preset positions that can be activated from the system controller with a switcher or recorder (specific models).
- Advanced auto tracking with new template matching algorithm (WV-CW970 Series) Operates zoom to focus on the target, ON/OFF selectable for each preset position, Manual lock-on by controller operation, Alarm activation by tracking duration and Alarm area setup. Auto release to minimize false detection, Total of 8 Masking and
- Auto tracking (WV-CW960 Series): The camera follows the largest movement in the image automatically. The camera will pan and tilt to keep the subject in the center of the image.
- VMD (Video Motion Detector) with Mask 8 x 6 areas
- · Scene Change Detection alarms when lens is covered, spray painted, removed or defocused.
- 4 alarm inputs and 2 outputs terminals

- Alarm actions include Terminal output, Camera positioning, Auto pan, Patrol, SEQ, Sort, Auto track, B/W and command output.
- Auto Image Stabilizer for applications where vibration or wind is a concern.
- Internal / Line-lock / Multiplexed Vertical Drive (VD2) synchronization
- Over the coaxial cable or RS-485 data communication
- 16 alphanumerics camera title display
- Multi language: English, French, Italian, Spanish, German, Russian, Chinese, Japanese
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Built-in fan/heater for temperature changes of -40 °C ~ +50 °C (-40 °F ~ +122 °F)
- Built-in sun shield permits camera locations in direct sunlight.

Standard Accessories

Operating Instructions	Front/rear sun shield

Optional Accessory

Wall Mount Bracket WV-Q122 This catalog is provided for all over the world. Some accessories may not be available in some countries.

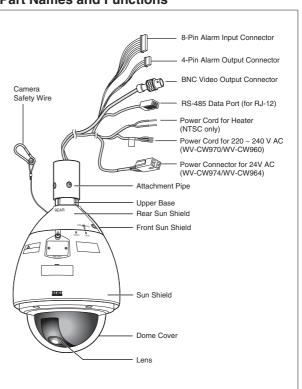
Specifications

TV System			NTSC	PAL	
Camera	Image Se		1/4 inch interline transfer CCD	750 (H) v 500 (M)	
	Effective		768 (H) x 494 (V)	752 (H) x 582 (V)	
	Scanning	,	2:1 interlace	0.05.410 0.74.410	
	Scanning	-	3.65 (H) x 2.74 (V) mm	3.65 (H) x 2.71 (V) mm	
		Frequency	Horizontal: 15.734 kHz Vertical: 59.94 Hz	Horizontal: 15.625 kHz Vertical: 50 H	
	Scanning	al Resolution	525 lines 540 TV lines typical / 520 TV lines mi	nimum (Color HIGH mode).	
			480 TV lines minimum (Color NORMAL n	node), 570 TV lines minimum (B/W mod	
		Illumination	Color (30 IRE): 0.5 lux (SENS UP: OFF), 0.016 lux (SENS UP: 32x) at F1.4 B/W (10 IRE): 0.04 lux (SENS UP: OFF), 0.0013 lux (SENS UP: 32x) at F1.4		
	Signal-to White Ba	-Noise Ratio	, , , , , , , , , , , , , , , , , , ,		
	Light Cor		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K) ALC / MANUAL		
	AGC		ON (LOW, MID, HIGH) / OFF		
	Super Dy	/namic III	ON / OFF (With BLC masking 8 x 6 areas)		
	Dynamic	Range	52 dB typical (Super Dynamic III: ON)	54 dB typical (Super Dynamic III : Of	
	Electroni	c Shutter	OFF (1/60), AUTO, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s	OFF (1/50), AUTO, 1/120, 1/250, 1/500 1/1,000, 1/2,000, 1/4,000, 1/10,000	
	Electroni	c Sensitivity UP	OFF / AUTO (2x, 4x, 6x, 10x, 16x, 32		
		oise Reduction	-		
	Resolution		Normal or High		
		d White Mode	Mode: AUTO / ON / OFF, Level: High / Low, with external control		
	Digital Zo		10x		
	Scene Fi		10 patterns (Shutter, AGC, Sens UP, White balance, VMD)		
		elect Setting	INDOOR (L) / INDOOR (H) / OUTDOOR (L) / OUTDOOR (H)		
		otion Detection	OFF / Mode1 (VMD) / Mode2 (Scene	change), Mask 8 x 6 areas	
	Privacy 2		OFF / Gray / Mosaic, 8 zones	<u> </u>	
		ge Stabilizer	ON / OFF		
	Camera		16 alphanumeric characters		
	Auto Foo		Manual S/M/L (one push) / AUTO S/N		
	Synchror		Internal (INT), Multiplexed Vertical Drive (VD2), Line-Lock (LL)		
ens	Focal Le	ngth	3.8 mm ~ 114 mm, 30x zoom (approx	k. 300x with digital zoom)	
	Zoom Sp	eed	approx. 6.0 second (Tele ~ Wide) in r	manual mode	
	Zoom Lir	nit	1x ~ 300x (Over 30x is digital zoom)		
	Angular I	Field of View	H: 1.9° (Tele) ~ 52.0° (Wide), V: 1.4° (Tele) ~ 40.0° (Wide)		
	Maximum	Aperture Ratio	1:1.4 (Wide) ~ 3.7 (Tele)		
	Focusing	Range	1.5 m (4.9 ft.) ~ ∞		
	Aperture	Range	F1.4 ~ 22, Close		
Pan and	Panning	Range	360° endless		
Tilt	Panning	Speed	Manual: approx. 0.065 °/s ~ 120 °/s, 256 steps, Preset: approx. 400 °/s		
			-5° ~ 185° (5° upper view available)		
	Tilting Sp	peed	Manual: approx. 0.065 °/s ~ 120 °/s, 256 steps, Preset: approx. 400 °/s		
	Proportion	al Pan/Tilt Control	Supported		
	Number of	Preset Positions	256		
	Auto Mod	de	OFF, Home, SEQ, SORT, AUTO PAN, PATROL 1 ~ 4, AUTO TRACK		
	Auto	WV-CW970 Series	PTZ operated, Detection area masking, Auto release ON/OFF selectable		
	Track		for each preset position, Manual lock and programmable Alarm area. Total		
		WV-CW960 Series	Standard Auto Track	o. Madning and Alaim area is 0.	
	Patrol	011300 061165		(2 programs) / 30 sec. (4 programs	
			Selectable: 2 min. (1 program) / 1 min. (2 programs) / 30 sec. (4 programs		
			ON / OFF		
	Area Title		ON / OFF		
	Preset A		8 area titles, 16 characters/area		
Alarm					
			Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO		
nput /	Video Ou		1.0 V [p-p] / NTSC composite 75 Ω /		
Output	video Ot	put	BNC Connector, Multiplexed VD2	BNC Connector, Multiplexed VD2	
- urput			and control data capable	and control data capable	
General	BS-48E	Control IF	RS-485 (RJ-11) x1, 2/4wire, Full/Half		
		I/O Terminals	4 inputs (ALARM IN 1 ~ ALARM IN 4),		
	Setup Me		OSD setup menu	2 oaipulo (ALAHIM/AOAT, DW/AOA2	
aciici ai					
			ON / OFF English, Russian (For setup menu and camera title), German, French, Italian, Spanish		
			(For setup menu), Chinese, Japanese (Only	for camera title. Setup menu will be English	
			UL (6500), FCC (Part15 ClassA), C-UL (E60065), DOC (ICES003 ClassA)	CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558	
	Power Se	ource and	24 V AC, 60 Hz, 17 W,	WV-CW974/WV-CW964:	
	Power C	onsumption	(for camera) 62 W (for heater)	24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960:	
	Abi . C			220 ~ 240 V AC, 50 Hz, 90 W (including heat	
		erating Temperature	-40 °C ~ +50 °C (-40 °F ~ 122 °F)		
		perating Humidity	90 % or less (without condensation)		
		Dust Resistance IP66, IEC60529 measuring standard compatible			
	Dimonoid	ne	ø239 mm (D) x 395.5 mm (H) (ø9-7/16" (D) x 15-9/16" (H))		
	Dimensio		4.7 kg (10.4 lbs.)		
	Weight (a		4.7 kg (10.4 lbs.)		
			4.7 kg (10.4 lbs.) Camera: Die cast Aluminum, backed		
	Weight (a		4.7 kg (10.4 lbs.)		

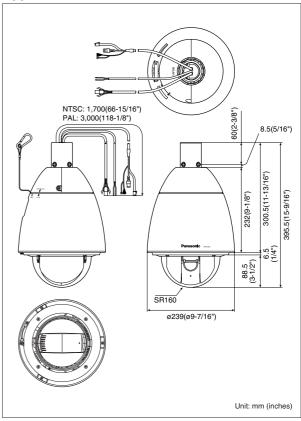
- Trademarks and registered trademarks

 "Super Dynamic", "SDIII", "SDIII" and "i-Pro" logos are trademarks or registered trademarks of Panasonic Corporation.
- Safety Precaution: carefully read the operating instructions and installation manual before using this product.

Part Names and Functions



Appearance



- All TV pictures are simulated.
- Weights 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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