

Super Dynamic III Weather Resistant Dome Camera WV-CW970 Series (Advanced Auto Track) WV-CW960 Series

WV-CW964 (24 V AC)

MTSC 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 Alarm areas
- 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 1 pc.
- The following items are for installation.
- 8P Alarm Cable 1 pc.
- 4P Alarm Cable 1 pc.
- Connector for 24 V AC
 - (only for WV-CW974/WV-CW964) 1 pc.

Optional Accessory

Wall Mount Bracket WV-Q122



.... 1 set

..... 3 pcs.

• Front/rear sun shield

Waterproof cap

• Front/rear sun shield mounting screws

..... 2 pcs. (*one screw is a spare)

This catalog is provided for all over the world. Some accessories may not be available in some countries.

Specifications

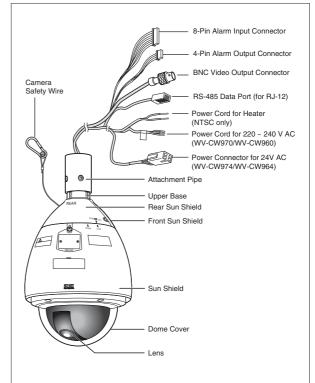
	1 I		NTSC	PAL
Camera	Image Se		1/4 inch interline transfer CCD	
	Effective	Pixels	768 (H) x 494 (V)	752 (H) x 582 (V)
	Scanning	J Mode	2:1 interlace	
	Scanning	Area	3.65 (H) x 2.74 (V) mm	3.65 (H) x 2.71 (V) mm
		Frequency	Horizontal: 15.734 kHz Vertical: 59.94 Hz	
	Scanning	g Line	525 lines	625 lines
	Horizontal Resolution Minimum Illumination Signal-to-Noise Ratio White Balance Light Control		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 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 50 dB (AGC: OFF, Weight: ON) AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)	
			ALC / MANUAL	
	AGC Super Dynamic III		ON (LOW, MID, HIGH) / OFF ON / OFF (With BLC masking 8 x 6 areas)	
	Dynamic Electroni	Range c Shutter	52 dB typical (Super Dynamic III : ON) OFF (1/60), AUTO, 1/100, 1/250, 1/500,	OFF (1/50), AUTO, 1/120, 1/250, 1/500
		c Sensitivity UP	1/1,000, 1/2,000, 1/4,000, 1/10,000 s OFF / AUTO (2x, 4x, 6x, 10x, 16x, 32	
	Digital Noise Reduction Resolution Mode Black and White Mode Digital Zoom Scene File		High or Low Normal or High Mode: AUTO / ON / OFF, Level: High / Low, with external control 10x 10 patterns (Shutter, AGC, Sens UP, White balance, VMD)	
	0		INDOOR (L) / INDOOR (H) / OUTDOOR (L) / OUTDOOR (H)	
		otion Detection	OFF / Mode1 (VMD) / Mode2 (Scene change), Mask 8 x 6 areas OFF / Gray / Mosaic, 8 zones	
	Privacy Zone Auto Image Stabilizer		ON / OFF	
	Camera Title		16 alphanumeric characters	
	Auto Focus		Manual S/M/L (one push) / AUTO S/M/L (after PTZ operation)	
	Synchronization		Internal (INT), Multiplexed Vertical Drive (VD2), Line-Lock (LL)	
Lens	Focal Length		3.8 mm ~ 114 mm, 30x zoom (approx. 300x with digital zoom)	
	Zoom Speed		approx. 6.0 second (Tele ~ Wide) in manual mode	
	Zoom Limit		1x ~ 300x (Over 30x is digital zoom)	
	Angular Field of View		H: 1.9° (Tele) ~ 52.0° (Wide), V: 1.4° (Tele) ~ 40.0° (Wide)	
	Maximum Aperture Ratio			
	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	
T IIT	Tilting Range			256 steps, Preset. approx. 400 /s
			-5° ~ 185° (5° upper view available)	
	Tilting Speed		Manual: approx. 0.065 °/s ~ 120 °/s, 256 steps, Preset: approx. 400 °/s	
	Proportional Pan/Tilt Control			
	Number of Preset Positions			
	Auto Mode		OFF, Home, SEQ, SORT, AUTO PAN, PATROL 1 ~ 4, AUTO TRACK	
	Auto	WV-CW970 Series	PTZ operated, Detection area maskir	ng, Auto release ON/OFF selectable
	Track		for each preset position, Manual lock and programmable Alarm area. Total	-
			Standard Auto Track	
		WV-CW960 Series	Selectable: 2 min. (1 program) / 1 min. (2 programs) / 30 sec. (4 programs	
	Patrol			n. (2 programs) / 30 sec. (4 programs
	Image He	old	ON / OFF	n. (2 programs) / 30 sec. (4 programs
	Image He Digital Fl	old	ON / OFF ON / OFF	n. (2 programs) / 30 sec. (4 programs
	Image He Digital FI Area Title	old ip ə	ON / OFF ON / OFF 8 area titles, 16 characters/area	n. (2 programs) / 30 sec. (4 programs)
Alor	Image He Digital FI Area Title Preset A	old ip e larm	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF	
Alarm	Image He Digital FI Area Title Preset A Alarm Sc	old ip e larm purce	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar	m
	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac	old ip e larm purce stions	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 - 4, PATROL 1 - 4, AUTO	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B∕
Input /	Image He Digital FI Area Title Preset A Alarm Sc	old ip e larm purce stions	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω /	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, Β/ 1.0 V [p-p] / PAL composite 75 Ω /
Input /	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac	old ip e larm purce stions	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2
Input /	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou	old ip e larm burce stions tiput	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 5 Ω / BNC Connector, Multiplexed VD2 and control data capable	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable
Input /	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 0	old ip 9 larm burce tions trput Control IF	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex
Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 (External	old ip g larm urce tions ttput Control IF I/O Terminals	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 - 4, PATROL 1 - 4, AUTO 1.0 V (p-p) / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (FJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 - ALARM IN 4)	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex
Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 0 External Setup Me	old ip a larm vurce ctions ttput Control IF I/O Terminals ethod	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4), OSD setup menu	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex
Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 (External	old ip a larm vurce ctions ttput Control IF I/O Terminals ethod	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 - 4, PATROL 1 - 4, AUTO 1.0 V (p-p) / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 - ALARM IN 4)	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex
Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 0 External Setup Me	old ip e larm purce titons utput Control IF I/O Terminals thod d Lock	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4), OSD setup menu	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2
Input / Output	Image Hu Digital FI Area Tittle Preset Al Alarm Sc Alarm Ac Video Ou RS-485 0 External Setup Me Passworn	old ip e larm purce titons utput Control IF I/O Terminals thod d Lock	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (FJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish
Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 (0 External Setup Me Passwor Languag	old ip e larm purce titons utput Control IF I/O Terminals thod d Lock	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish
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Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 (External Setup Me Passwor Languag	old p a atarm burce titions typut Control IF I/O Terminals sthod d Lock e	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 - 4, PATROL 1 - 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC connector, Multiplexed VD2 and control data capable RS-485 (FJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 - ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500), FCC (Part15 ClassA),	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB,
Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 O External Setup Me Passwore Languag Safety/EI Power Sc	old ip a larm purce ctions itput Control IF I/O Terminals athod d Lock e MC Standard purce and	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500), FCC (Part15 ClassA), C-UL (E6005), DOC (ICSos ClassA) 24 V AC, 60 Hz, 17 W,	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558 WV-CW974/WV-CW964:
	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 O External Setup Me Passwore Languag Safety/EI Power Sc	old ip e aarm purce tions itput Control IF I/O Terminals thod d Lock e MC Standard	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 - 4, PATROL 1 - 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (FJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 - ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500), FOC (Part15 ClassA), C-UL (660065), DOC (ICES003 ClassA)	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R51558 WV-CW974/WV-CW964: 24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960:
Input / Output	Image He Digital FI Area Titte Preset Al Alarm Sc Alarm Ac Video Ou RS-485 0 External Setup Mk Passwor Languag Safety/EI Power Sc Power Co	old ip a arm purce tions trut Control IF I/O Terminals thod d Lock e MC Standard ource and onsumption	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 - 4, PATROL 1 - 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (FJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 - ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500, FCC (Part15 ClassA), C-UL (E60065), DOC (ICES003 ClassA) 24 V AC, 60 Hz, 17 W, (for camera) 62 W (for heater)	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R51558 WV-CW974/WV-CW964: 24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960:
Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Alarm Ac Video Ou RS-485 (External Setup Me Passworn Languag Safety/EI Power Sc Power Co	old ip a larm purce titons itput Control IF I/O Terminals thod d Lock e MC Standard onsumption erating Temperature	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500), FCC (Part15 ClassA), C-UL (E6005), DOC (ICES00 ClassA) 24 V AC, 60 Hz, 17 W, (for camera) 62 W (for heater) -40 °C ~ +50 °C (-40 °F ~ 122 °F)	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R51558 WV-CW974/WV-CW964: 24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960:
Input / Output	Image He Digital FI Area Title Preset AI Alarm Sc Video Ou RS-485 (External Setup Me Passwor Languag Safety/EI Power Sc Power Co Ambient Op	old ip a alarm burce titions itput Control IF //O Terminals athod d Lock e MC Standard onsumption erating Temperature ipperating Humidity	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALAFM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500), FCC (Part15 ClassA), C-UL (E60065), DOC (ICES003 ClassA) 24 V AC, 60 Hz, 17 W, (for camera) 62 W (for heater) -40 °C ~ +50 °C (-40 °F ~ 122 °F) 90 % or less (without condensation)	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558 WV-CW974/WV-CW964: 24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960: 220 - 240 V AC, 50 Hz, 90 W (including heate
Input / Output	Image He Digital FI Area Title Preset Al Alarm Sc Video Ou RS-485 O External Setup Me Passworn Languag Safety/EI Power Sc Power Co Ambient Op Ambient Op	lold old ip arm vurce vitions vit	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alan Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (65005), FCC (Part15 ClassA), C-UL (E60065), DCC (ICES003 ClassA) 24 V AC, 60 Hz, 17 W, (for camera) 62 W (for heater) -40 °C ~ +50 °C (-40 °F ~ 122 °F) 90 % or less (without condensation) IP66, IEC60529 measuring standard	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558 WV-CW974/WV-CW964: 24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960: 220 ~ 240 V AC, 50 Hz, 90 W (including heate compatible
Input / Output	Image He Digital FI Area Tittle Preset Al Alarm Sc Alarm Ac Video Ou RS-485 C External Setup Mk Passwor Languag Safety/EI Power Sc Power Co Ambient Op Ambient Op Mater and Dimensic	lold old ip a larm Durce Control IF I/O Terminals thod d Lock e MC Standard onsumption erating Temperature ipperating Humidity I Dust Resistance ons	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (FJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500), FOC (Part15 ClassA), C-UL (660065), DOC (ICES003 ClassA) 24 V AC, 60 Hz, 17 W, (for camera) 62 W (for heater) 90 % or less (without condensation) IP66, IEC60529 measuring standard 9239 mm (D) x 395.5 mm (H) (ø9-7/1	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558 WV-CW974/WV-CW964: 24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960: 220 ~ 240 V AC, 50 Hz, 90 W (including heate compatible
Input / Output	Image He Digital FI Area Title Preset AI Alarm Sc Alarm Ac Video OL RS-485 C External Setup Me Passworn Languag Safety/EI Power Sc Power C Ambient Op Ambient Op Mater and Dimensic Weight (a	lold old ip a larm Durce Control IF I/O Terminals thod d Lock e MC Standard onsumption erating Temperature ipperating Humidity I Dust Resistance ons	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (RJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500), FCC (Part15 ClassA), C-UL (E6005), DOC (ICES003 ClassA) 24 V AC, 60 Hz, 17 W, (for camera) 62 W (for heater) -40 °C ~ +50 °C (-40 °F ~ 122 °F) 90 % or less (without condensation) IP66, IEC60529 measuring standard a239 mm (D) x 395.5 mm (H) (ø9-7/1 4.7 kg (10.4 lbs.)	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558 WV-CW974/WV-CW964: 24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960: 220 - 240 V AC, 50 Hz, 90 W (including heate compatible 6" (D) x 15-9/16" (H))
Input / Output	Image He Digital FI Area Tittle Preset Al Alarm Sc Alarm Ac Video Ou RS-485 C External Setup Mk Passwor Languag Safety/EI Power Sc Power Co Ambient Op Ambient Op Mater and Dimensic	lold old ip a larm Durce Control IF I/O Terminals thod d Lock e MC Standard onsumption erating Temperature ipperating Humidity I Dust Resistance ons	ON / OFF ON / OFF 8 area titles, 16 characters/area ON / OFF Terminal input, VMD, Command alar Preset position 1 ~ 4, PATROL 1 ~ 4, AUTO 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable RS-485 (FJ-11) x1, 2/4wire, Full/Half 4 inputs (ALARM IN 1 ~ ALARM IN 4) OSD setup menu ON / OFF English, Russian (For setup menu and came (For setup menu), Chinese, Japanese (Only UL (6500), FOC (Part15 ClassA), C-UL (660065), DOC (ICES003 ClassA) 24 V AC, 60 Hz, 17 W, (for camera) 62 W (for heater) 90 % or less (without condensation) IP66, IEC60529 measuring standard 9239 mm (D) x 395.5 mm (H) (ø9-7/1	m TRACK 1 ~ 4, SEQ, SORT, AUTO PAN, B/ 1.0 V [p-p] / PAL composite 75 Ω / BNC Connector, Multiplexed VD2 and control data capable duplex 2 outputs (ALARM/AUX1, BW/AUX2 ra title), German, French, Italian, Spanish for camera title. Setup menu will be English CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558 WV-CW974/WV-CW964: 24 V AC, 50 Hz, 77 W (including heate WV-CW970/WV-CW960: 220 ~ 240 V AC, 50 Hz, 90 W (including heate compatible 6" (D) x 15-9/16" (H)) on coating (Pain color: Fine Silver)

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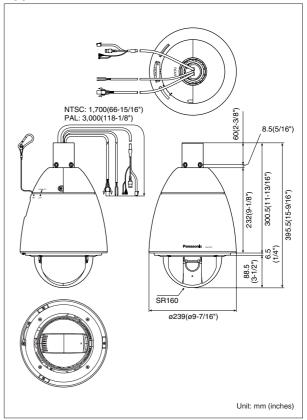
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Part Names and Functions



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