



## Security Management System

# Model SWV-CW964

## *Panasonic Weather Proof and Vandal Resistant Color Dome Camera*

### Overview

The SWV-CW964 Weather Proof and Vandal Resistant Color Dome Camera is perfect for all weather outdoor use. It features a color camera with a 30x zoom lens, high-speed panning table, exclusive Super Dynamic II technology and day/night operation, crisp clear color images with 540 lines of resolution.



### FEATURES & BENEFITS

- Meets IP66 international standard
- A fan and heater are incorporated in the housing providing an operating temperature range of -30C to +50C (-22F to +122F)
- Auto image stabilizer
- Automatically switches from color to black and white at night
- Auto tracking
- Maximum magnification of 300x with digital zoom
- Maximum of 64 preset positions
- Scene change detection
- Powerful pixel-based 128x dynamic range
- Up to 16 characters and symbols can be displayed on monitor
- Compatible with SVSU and SEVMS Digital Records

### ORDERING INFORMATION

SWV-CW964 - Weather Proof and Vandal Resistant Color Dome Camera

### MOUNTS

SPWM20G - Gooseneck Wall Mount

SPWM30G - Parapet Roof Mount

SPPRM30G - Extended Parapet Roof Mount

### POWER SUPPLIES

SPDA8ET4UL - Power supply for 8 24VAC cameras

SPDA16ET8UL - Power supply for 16 24VAC cameras

## SPECIFICATIONS

### General

Power Requirements	24 V AC, 60 Hz
Power Consumption 1	17 W (for camera), 62 W (for heater)
Pick-up Device	1/4-type (1/4") interline transfer CCD
Effective Pixels	768 (H) x 494 (V)
Scanning Area	3.65 mm (H) x 2.74 mm (V)
Signal	NTSC
Synchronization	Internal (INT), multiplexed vertical drive (VD2), line-lock (LL)
Scanning	2:1 interlace
Scanning Frequencies	Horizontal: 15.734 kHz, Vertical: 59.94 Hz
Video Output	VBS: 1.0 V [p-p] / 75 Ω (BNC plug)
Resolution (Center)	Horizontal: 480 TV lines minimum (color NORMAL mode) 540 TV lines typ., 520 TV lines minimum (color HIGH mode) 570 TV lines minimum (black and white) Vertical: 350 TV lines minimum (Center)
Minimum Illumination	0.5 lux (0.05 fc) (color mode) 0.04 lux (0.004 fc) (black and white mode) SENS UP: OFF; AGC: HIGH
Dynamic Range	52 dB typ. (SUPER-D III : ON)
S/N Ratio	50 dB minimum (AGC: OFF)
Ambient Operating Temperature -	40 °C ~ +50 °C (-40 °F ~ +122 °F)
Ambient Operating Humidity	90 % max. (non-condensation) *1
Water Resistance	IP66 protection from water jets from a nozzle (IEC60529/JIS C 0920)
Dimensions	ø239 mm (D) x 395.5 mm (H) (ø9-7/16" (D) x 15-9/16" (H))
Weight	approx. 4.7 kg (10.4 lbs.)
Finish	Camera: Die cast aluminum, baked on coating (Paint color: Fine silver) Sun shield: ASA resin, coated (Paint color: Fine silver) Dome: Clear polycarbonate resin

\*1 When power is on continuously, the camera's interior temperature is -10 °C (14 °F) or higher

### Pan and Tilt

Panning Range	360 ° endless
Panning Modes	Manual, auto, manual position, sequential position
Panning Speed *2	Manual: approx. 0.065 °/s ~ 120 °/s 8 steps, 16 steps, 64 steps Preset: approx. 400 °/s
Tilting Range	-5 ° ~ 185 ° (horizontal - vertical - horizontal) (According to the TILT ANGLE)
Tilting Modes	Manual, manual position, sequential position
Tilting Speed *2	Manual: approx. 0.065 °/s ~ 120 °/s 8 steps, 16 steps, 64 steps Preset: approx. 400 °/s

\*2 Actual speed depends on type of controller being used.

### Lens

Zoom Ratio	30x (approx. 300x with digital zoom)
Focal Length	3.8 mm ~ 114 mm
Maximum Aperture Ratio	1:1.4 (WIDE) ~ 3.6 (TELE)
Object Distance	1.5 m
Iris Range	F1.4 ~ 22, Close
Angular Field of View	Horizontal: 1.8 ° (TELE) ~ 52 ° (WIDE) Vertical: 1.4 ° (TELE) ~ 40 ° (WIDE)

### Main Functions

Controller Interface	Coaxial Multiplex System, RS485
Control Functions	Pan and tilt, zoom and focus, 256 preset positions, home position, patrol
AGC	ON (LOW), ON (MID), ON (HIGH), OFF
Title(ID)	ON, OFF (Preset ID, camera ID, area title: 16 alphanumeric characters)
Zoom Speed	approx. 6.0 seconds (TELE - WIDE) in manual mode
Zoom Limit	1x ~ 300x (Over 30x is digital zoom)
Password Lock	All menus
Auto Focus	MANUAL/AUTO (PAN, TILT, ZOOM linked)
Iris	ALC (Adjustable OPEN/CLOSE output target level)/MANUAL
Shutter	OFF (1/60), AUTO, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000
Electronic Sensitivity Enhancement	32x max. (AUTO or FIX)
Auto Mode	OFF, SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK
Auto Pan Key	SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK
Digital Flip	ON/OFF
SUPER-D III	ON/OFF
Motion Detector	OFF/MODE1/MODE2
Alarm Input/Output	4 inputs (ALARM IN 1 ~ ALARM IN 4) 2 outputs (ALARM/AUX1, BW/AUX2)
Black and White Mode Switching	AUTO/ON/OFF
Privacy Zone	ON/OFF (8 zone settings)
Patrol	STOP/PLAY/LEARN
Cleaning	ON/OFF
Image Hold	ON/OFF
Auto Image Stabilizer	ON/OFF
Scene Select Setting	INDOOR (L)/INDOOR (H)/OUTDOOR (L)/OUTDOOR (H)
Language Setting	English, German, French, Italian, Spanish, Russian, Chinese, Japanese

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