

## Super High Resolution Color & Day/Night Pendant PTZ System Cameras

**VCC-9000 Series**  
**VCC-9100 Series**

### Color Version Specific Highlights (VCC-9000)

- 520 TVL
- 22X Optical, 16X Digital
- Min. Illum. 2.0 lux @ F1.6  
0.06 lux (32x sensitivity boost)
- Optical Zoom: 4.0 to 88mm
- Elect. Sens. Boosting: x32
- Privacy Masking: 4 Areas

### Day/Night Version Specific Highlights (VCC-9100)

- 520 TVL
- 22X Optical, 16X Digital
- Min. Illum: 1.2 lux @ F1.6 (Color)  
0.06 lux @ F1.6 (B/W)  
0.04 lux (Color) (32x sensitivity boost)  
0.0002 lux (B/W) (32x sensitivity boost)
- Optical Zoom: 3.6 to 79.2
- Elect. Sens. Boosting: x32
- Privacy Masking: 4 Areas

### PTZ Specific Highlights

- Presets: 80
- Sequences: 4
- Tours: 4 (1000 commands ea.)
- Zones: 8
- Autopan: 4
- Mechanical Auto Flip
- Rotation Range
  - ▶ Pan: 360°
  - ▶ Tilt: 90° w/flip for 180° total
- Pan Speed
  - ▶ 300°/sec preset
  - ▶ 0.5 to 140°/sec manual
- Tilt Speed
  - ▶ 300°/sec preset
  - ▶ 0.5 to 140°/sec manual
- Temperature
  - ▶ 0 to 40°C (indoor)
  - ▶ -20 to 50°C (outdoor)



### General Highlights

- Indoor Pendant and Outdoor Pendant Versions
- Smoked and Clear Lower dome options
- Color and Day/Night Versions
- Super High Resolution of More than 520 TV Lines
- Maximum 352X zoom function (Optical 22X, Electronic 16X)
- 32X Sensitivity Boost
- Standard Protocols: Sanyo, Pelco-D
- Mounting Options: Wall Mount, Corner Mount, Pendant Mount, Pole Mount

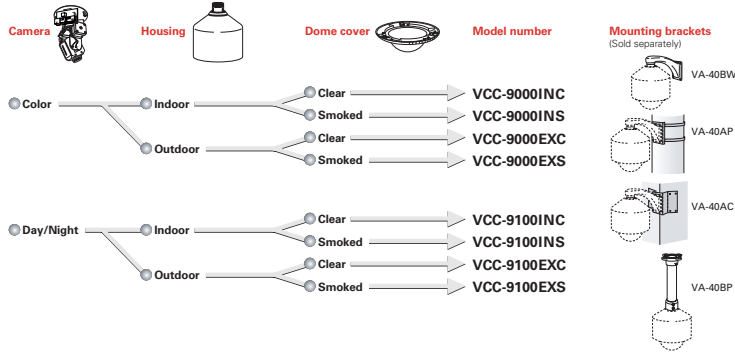
# VCC-9000 Series VCC-9100 Series

## SUPER HIGH RESOLUTION COLOR & DAY/NIGHT PENDANT PTZ SYSTEM CAMERAS

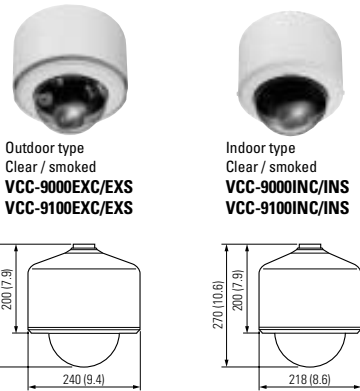
### Component codes displayed in model number system

Camera type	Housing type	Dome cover type
<b>VCC-9000</b> Color	<b>IN</b> Indoor	<b>C</b> Clear
<b>9100</b> Day/night	<b>EX</b> Outdoor	<b>S</b> Smoked

Select the component combinations best suited to your needs from the diagram below.

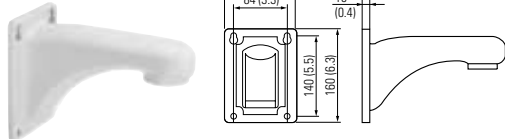


### Housings

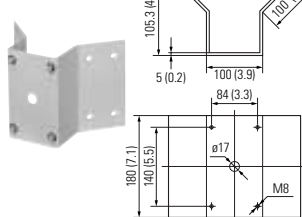


### Mounting Brackets

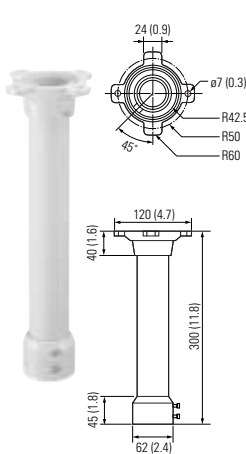
**VA-40BW**  
Wall mount installation bracket



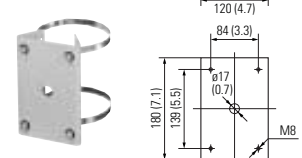
**VA-40AC**  
Corner mount installation bracket



**VA-40BP**  
Pendant mount installation bracket



**VA-40AP**  
Pole mount installation bracket



## Specifications

Camera type	Day / Night Camera	Color Camera		
Model No.	<b>VCC-9100</b>	<b>VCC-9000</b>		
Scanning system	NTSC standard (525 lines, 30 frames/sec)			
Image sensor	1/4" interline transfer method CCD			
Picture elements	Effective	811 (H) x 508 (V)		
	Total	768 (H) x 494 (V)		
Horizontal resolution	More than 520 TV lines			
Zoom lens (F1.6 to 3.8)	22x, f = 3.6 to 79.2 mm	22x, f = 4.0 to 88 mm		
Electronic zoom	Auto (speed (Hi/Lo) and ratio (2x, 4x, 8x, 16x) selectable) / Off Max. 352x combined with optical zoom			
Auto focus	Auto / Manual			
Iris control	Auto / Manual			
Synchronization method	Internal synchronization			
Minimum illumination	(F1.6, 50 IRE)	Color mode	1.2 lx (Normal)	2.0 lx (Normal)
			0.04 lx (32x electronic sensitivity boost)	0.06 lx (32x electronic sensitivity boost)
	(F1.6, 20 IRE)	B/W mode	0.06 lx (Normal)	—
			0.0002 lx (32x electronic sensitivity boost)	—
	(F1.6, 20 IRE)	Color mode	0.5 lx (Normal)	0.8 lx (Normal)
			0.015 lx (32x electronic sensitivity boost)	0.024 lx (32x electronic sensitivity boost)
	B/W mode	0.02 lx (Normal)	—	
		0.0006 lx (32x electronic sensitivity boost)	—	
S/N ratio	More than 50 dB (AGC off)			
Backlight compensation	On (center-weighted photometry) / Off			
Electronic shutter	High-speed mode	8 steps: 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000		
	Low-speed mode	5 steps: 2x, 4x, 8x, 16x, 32x		
Electronic sensitivity boost	Auto (interlocked with auto iris), up to 32x / Off			
Day/night operation	Auto / Color / B/W	—		
White Balance	ATW / MWB			
Gain control	Auto			
Aperture	H / V setting possible			
Privacy masking	Max. 4 areas			
Character display	Screen titles and camera ID (max. 16 characters each)			
Auto mode	Sequence / Tour / Auto pan / Zone			
Movement range	Horizontal	360° endless		
	Vertical	0 to 90°		
Movement speed	Horizontal	Preset: 300°/sec, Manual: 0.5 to 140°/sec		
	Vertical	Preset: 300°/sec, Manual: 0.5 to 140°/sec		
Preset position setting	80 settings			
Auto flip	Mechanical auto flip			
Communications	RS-485	Yes		
	Coaxial control (SSP)	Yes		
	Protocols	SANYO, Pelco "D"		
Operating conditions	Temperature	0 to 40°C = VCC-9100INC/INS -20 to 50°C = VCC-9100EXC/EXS	0 to 40°C = VCC-9000INC/INS -20 to 50°C = VCC-9000EXC/EXS	
	Humidity	Below 90% RH		
Power requirement	24 V AC ±10%, 60 Hz			
Power consumption	12 W = VCC-9100INC/INS 50 W = VCC-9100EXC/EXS	12 W = VCC-9000INC/INS 50 W = VCC-9000EXC/EXS		
	Weight	3.7 kg = VCC-9100INC/INS 4.6 kg = VCC-9100EXC/EXS	3.7 kg = VCC-9000INC/INS 4.6 kg = VCC-9000EXC/EXS	
Regulatory	UL, FCC Class B			

Specifications subject to change without notice. © 2005 SANYO Security Products

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