

**Speed Dome Camera Systems** 

VCC-9100P PAL VCC-9000P PAL

DIGITAL

More than 520/TV lines

and an array of options including
colour and day/night cameras for
surveillance systems tailored to
operational environments.

# **Performance**

for a vivid record of objects captured on video.

520

#### **TV Lines of Horizontal Resolution**

With a built-in auto-focus zoom lens, the high-performance VCC-9000P/VCC-9100P series allows for greater accuracy in monitoring of activities in a wide range of environments. This is combined with the superior clarity and sharpness of digital imaging achieved by SANYO's digital signal processing (DSP) system for over 520 TV lines of horizontal resolution.







Standard resolution picture



# 352x

### Power Zoom (22x Optical, 16x Digital)

The 22x optical zoom and the 16x digital zoom can be combined for close-ups at a magnification power of 352x.

This allows even distant subjects to be observed in detail, enabling one camera to monitor a wider area.



Optical zoom

Digital zoom

# 32x

## **Electronic Sensitivity Boost**

While offering minimum illumination of 1.2 lx with the VCC-9100P or 2.0 lx with the VCC-9000P, camera sensitivity can be further enhanced via an up to 32x electronic sensitivity boost.

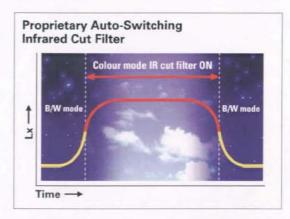
(F1.6, 50 IRE)

Model No.	Mode	Normal	32x electronic sensitivity boost
VCC-9100P	Colour	1.2 lx	0.04 lx
	B/W	0.06 lx	0.002 lx
VCC-9000P	Colour	2.0 lx	0.06 lx

# DAY/ NIGHT vcc-9100P Option

### for Round-the-Clock Applications

As the VCC-9100P senses the amount of light in the viewing area, it automatically turns the IR cut filter on and off as required. As more precise colour reproduction is essential in the colour operation mode, the filter is turned on. In the B/W mode, clear bright images (to a minimum required illumination of 0.06 lx) are produced by switching the filter off and increasing light sensitivity.



The VCC-9100P's sensitivity to exposed light allows it to automatically switch from colour to B/W mode so as to effectively engineer the capabilities of two CCD cameras into one for an ideal 'all-in-one' cost-effective solution for all surveillance needs.

# **Agility**

### for surveillance that captures the moment of truth.

#### 80 Preset Positioning and Sequential Monitoring Functions

Up to 80 preset positions (with different settings for pan, tilt, zoom and focus) can be registered for a single VCC-9000P or

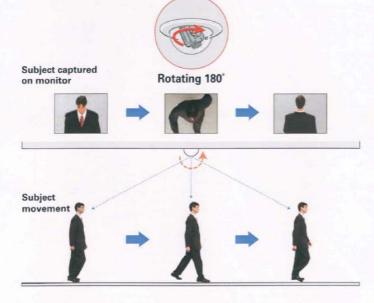
VCC-9100P. A simple key entry to a controller allows you to easily switch to the scene you want to monitor. Moreover, up to 4 sequential

Moreover, up to 4 sequential monitoring patterns, each consisting of up to 36 preset positions, can be stored and recalled.



#### Mechanical Auto Flip for Monitoring Objects Directly Below

The camera within the dome automatically flips the image (top/bottom or left/right) into an upright position by rotating 180° as it tracks a subject passing directly below the dome. This feature allows continuous monitoring of moving objects over a range of 180° in the vertical plane without unwanted image inversion.



#### Variable Speed Pan and Tilt

Providing endless panning over 360° in the horizontal plane and 180° of tilt in the vertical, the camera can be made to move at variable speeds (0.5° to 140° per second for horizontal and

vertical planes) by joystick or to pan/tilt to scenes designated for monitoring. When preset positions have been entered, it offers the capability to swiftly pan/tilt at a maximum speed of 300° per second between monitoring positions.

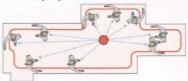


#### Tour Mode Stores and Replicates Manually Operated Patrols

Capable of storing up to 1,000 commands of manual pan, tilt, and zoom operations in memory and recreating the same

movement pattern as a trace path setting.
Auto-pan monitoring can also be programmed by designating two end points on a horizontal plane.

Illustration of movements traced on a display floor.



# Backlight compensation (Centre-weighted photometry system)

Luminance measured at the centre of the field of view together with automatic lens aperture adjustment enable a clear image even when backlit.



### Privacy Masking

When there is a house or even an object as small as a window within the camera frame, it is possible to mask the area so that it will not appear on the monitor screen to protect other people's privacy. Up to 4 rectangular masks of arbitrary size can be set per screen.



#### Easy On-screen Setup and Adjustment of Default Settings

Both the VCC-9000P and VCC-9100P can be set up on-screen and operated using a controller with SANYO's Security Serial

Protocol (SSP). Furthermore, newly developed digital video recorders can be connected to allow setup of camera settings and controls using the front panel buttons and an OSD (on-screen display). For details on compatible recorders, please contact your local SANYO supplier.



#### **Built-in Electronic Shutter**

Enables eight high-speed shutter settings from 1/50 sec. to 1/10,000 sec. in addition to five low-speed settings from 2x to 32x.

### Component codes displayed in model number system

Camera type VCC-9000 9100 Day/night

Housing type EB Embedded IN EX Outdoor

S Smoked

Dome cover type Scanning system

PAL system

#### Model Configurations

Model name	Camera unit + Housing + Dome cover
VCC-9000EBCP	VCC-MC301P ( ① ) + VA-40ME ( ③ ) + VA-CM1C ( ⑤ )
VCC-9000EBSP	VCC-MC301P ( ① ) + VA-40ME ( ② ) + VA-CM1S ( ② )
VCC-9100EBCP	VCC-MC401P ( ② ) + VA-40ME ( ③ ) + VA-CM1C ( ⑥ )
VCC-9100EBSP	VCC-MC401P ( ② ) + VA-40ME ( ③ ) + VA-CM1S ( ② )
VCC-9000INCP	VCC-MC301P ( ① ) + VA-40IN ( ④ ) + VA-CM2C ( ⑧ )
VCC-9000INSP	VCC-MC301P ( ① ) + VA-40IN ( ④ ) + VA-CM2S ( ⑨ )
VCC-9100INCP	VCC-MC401P ( 2) + VA-40IN ( 4) + VA-CM2C ( 8)
VCC-9100INSP	VCC-MC401P ( 2) + VA-40IN ( 4) + VA-CM2S ( 9)
VCC-9000EXCP	VCC-MC301P ( ① ) + VA-40EX ( ⑤ ) + VA-CM3C ( ⑥ )
VCC-9000EXSP	VCC-MC301P ( ① ) + VA-40EX ( ⑤ ) + VA-CM3S ( ① )
VCC-9100EXCP	VCC-MC401P ( ②) + VA-40EX ( ⑤) + VA-CM3C ( ⑥)
VCC-9100EXSP	VCC-MC401P (2) + VA-40EX (5) + VA-CM3S (1)

Note: Please feel free to consult your local SANYO supplier regarding the optimal combination of components for your surveillance and security camera needs.

#### Options

Camera u	units		Housings		
Model name	Shape	Details	Model name	Shape	Details
VCC-MC301P		Standard colour PAL type	VA-40ME (③)		Ceiling embedded housing
VCC-MC401P (2)		Day/night PAL type	VA-40IN (④)		Indoor housing
Mountin	n brook	oto	1	A	

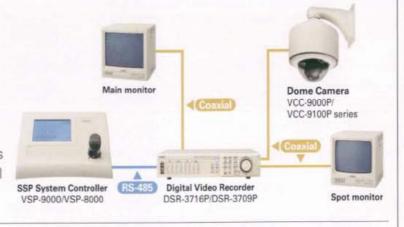
Mounting brackets				1		
Model name	Shape	Details	VA-40EX ((5))		Outdoor housing	
VA-40BW		Wall mounting bracket				

Micoel Haine	Suebe	Details	Control of the		STATE OF THE PARTY
VA-40BW		Wall mounting bracket Use when installing the camera to a wall.			
	1		Dome covers		
			Model name	Shape	Details
VA-40AP	-	Pole mounting adapter Use when installing the camera to a surface such as a pillar. (Does not include VA-408W.)	VA-CM1C (E)		For ceiling embedded housing
	U		VA-CM1S ((Z))		Dome cover (Smoked) For ceiling embedded housing
VA-40AC	5	Corner mounting adapter Use when installing the camera to a surface such as the corner of a wall. (Does not include VA-408W.)	VA-CM2C (E)		Dome cover (Clear) For indoor housing
	U		VA-CM2S (9)		Dome cover (Smoked For indoor housing
VA-408P	9	Ceiling suspension bracket Use when suspending the camera from a ceiling.	VA-CM3C (f0)		Dome cover (Clear) For outdoor housing
	9		VA-CM3S ((1))		Dome cover (Smoked) For outdoor housing

### Greater System Flexibility with Coax and Twisted-pair Control

#### SSP Control System

The VCC-9000P/VCC-9100P series can be programmed and controlled via SANYO's Security Serial Protocol (SSP), a communications method for interfacing between various components of a security video system, using different transmission media to lend greater flexibility to the configuration of surveillance and monitoring systems. These cameras can thus be effectively integrated into systems for desktop control using next-generation or existing peripheral devices connected by coaxial and/or twisted pair cabling.



#### SSP Product Lineup



1/4" Colour CCD High-resolution Weatherproof Day/Night AF Zoom Camera

VCC-XZ400P NIGHT



High-resolution Speed Dome Camera

VCC-9400P MIGHT VCC-9300P



1/4" Colour CCD DSP High-resolution Auto Focus Zoom Camera

VCC-ZM400P MGHT



Network Video Server VSP-SV2000P

SSP System Controller

VSP-8000



SSP/Coaxial Converter VSP-CB10







VCC-ZM300PA



VSP-9000

SSP Signal Receiver VSP-RV200



1-channel Digital Video Recorder DSR-300P



4-channel Digital Video Recorder DSR-M814P



1-channel Digital Video Recorder DSR-M810P



16-/9-channel Digital Video Recorder DSR-3716P/DSR-3709P



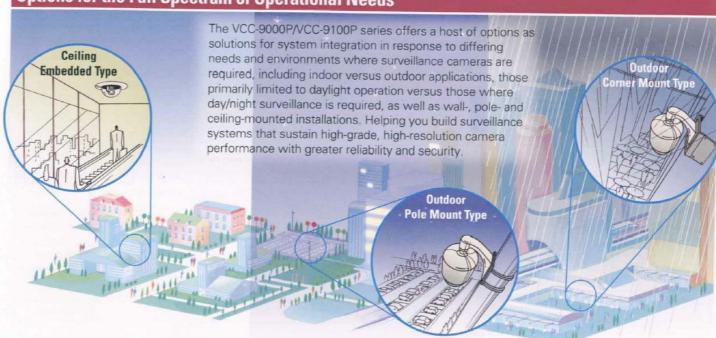
6-channel Digital Video Recorder DSR-3506P

# **Flexibility**

for cameras adaptable to operational environments.

# 36

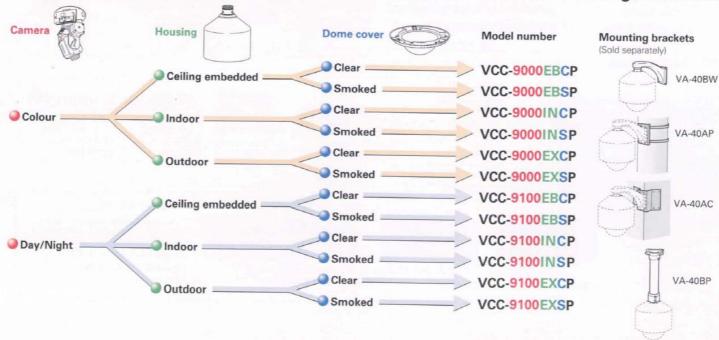




## Component codes displayed in model number system

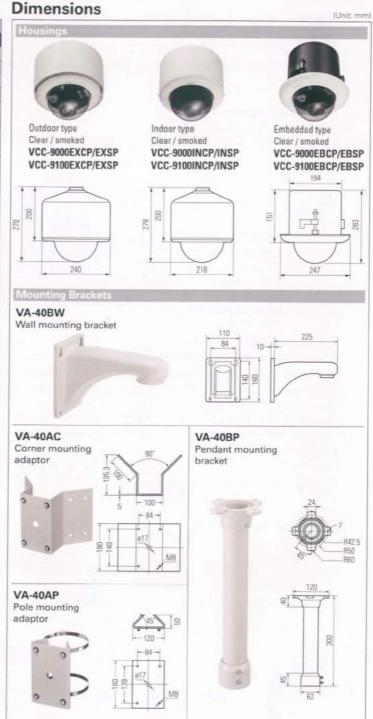


# Select the component combinations best suited to your needs from the diagram below.



## **Speed Dome Camera Systems**

Camera type	9	Day / Night Camera	Colour Camera			
Model No.		VCC-9100□□□P	VCC-9000□□□P			
Scanning system		PAL standard (625 lines, 25 frames/sec)				
Image sensi	or	1/4" interline tran	nsfer method CCD			
Picture	Effective	752 (H) x 582 (V)				
elements	Total	795 (H) x 592 (V)				
Horizontal re	esolution	More than 520 TV lines				
Zoom lens (F	1.6 to 3.8)	22x, f = 3.6 to 79.2 mm	22x, f = 4.0 to 88 mm			
Electronic zoom		2x, 4x, 8x, 16x (selectable) / off (Max, 352x combined with optical zoom)				
Auto focus		Auto / Off (Manual)				
Iris control		Auto / Off				
Synchronisa	tion method	Internal synchronisation				
Minimum illu		internal systematicalities				
		1.2 lx (Normal)	2.0 lx (Nomal)			
NAME OF COLUMN	Colour mode	0.04 lx (32x electronic sensitivity boost)	0.06 lx (32x electronic sensitivity boest			
(F1.6, 50 IR		0.06 lx (Normal)	and the second second second			
	B/W mode	0.0002 lx (32x electronic sensitivity boost)				
		0.5 lx (Normal)	0.8 lx (Normal)			
	Colour mode	0.015 lx (32x electronic sensitivity boost)	0.024 lx (32x electronic sensitivity boost			
(F1.6, 20 IR		0.02 lx (Normal)	where a new forms represent the section of the second			
	B/W mode	0.0006 lx (32x electronic sensitivity boost)				
S/N ratio		More than 50 dB (AGC off)				
Backlight co	mpensation	On (centre-weighted photometry) / Off				
	High-speed mode	8 steps: 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000				
shutter Low-speed mode		5 steps: 2x, 4x, 8x, 16x, 32x				
	ensitivity boost	Auto (interlocked with auto iris), up to 32x / Off				
Day/night op		Auto / Colour / B/W				
White Balan	DAVEOGRAPH	ATW / MWB				
Gain control		Auto				
Privacy mask	king	Max. 4 areas				
Character di	splay	Screen titles and camera ID (max. 16 characters each)				
Auto mode		Sequence / Tour /Auto pan / Zone				
Movement I	Horizontal	360° endless				
Standard Commence	/ertical	0 to 90"				
Movement 1	Horizontal	Preset: 300°/sec, Manual: 0.5 to 140°/sec				
	/ertical	Preset: 300'/sec, Manual: 0.5 to 140'/sec				
Preset position	on setting	80 settings				
Auto flip		Mechanical auto flip				
	RS-485	Yes Yes				
Communi-	Coaxial control (SSP)	Ye	7.7			
cations —	Protocols	SANYO. P				
	emperature	0 to 40°C = VCC-9100EBCP/EBSP VCC-9100INCP/INSP -20 to 50°C = VCC-9100EXCP/EXSP	TANTO AND			
1-14-10-10-12-11-20 F	lumidity	Below 90	CONTRACTOR OF CHARLES AND ADDRESS OF THE STATE OF THE STA			
Power requirement		24 V AC ±10%, 50 Hz				
Power consumption		10 W = VCC-9100EBCP/EBSP VCC-9100INCP/INSP 50 W = VCC-9100EXCP/EXSP	10 W = VCC-9000EBCP/EBSP VCC-9000INCP/INSP 50 W = VCC-9000EXCP/EXSP			
Weight		3.0 kg = VCC-9100EBCP/EBSP 3.7 kg = VCC-9100INCP/INSP 4.6 kg = VCC-9100EXCP/EXSP	3.0 kg = VCC-9000EBCP/EBSP 3.7 kg = VCC-9000INCP/INSP 4.6 kg = VCC-9000EXCP/EXSP			



- · All specifications and features are subject to change without notice.
- All weights and dimensions are approximate
  All photographs are representations only.
- For complete information on product specifications and accessories, please contact your local SANYO supplier

4.6 kg = VCC-9100EXCP/EXSP

Caution: Please consult the instruction manual to ensure safe and proper operation of the product.

4.6 kg = VCC-9000EXCP/EXSP









DI Solutions Company of Sanyo Electric Co., Ltd. obtained Quality Management System ISO 9001 and Environmental Management System ISO 14001 certifications.

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