

## VCC- 9800P series Architect & Engineer Specification

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### Bid Spec

#### 1.0 Description

The video camera described shall be a Sanyo Model number VCC-9800P series or equivalent. The Camera described shall be an industrial grade, high sensitivity, 520TVL high-resolution colour and black/white speed dome camera with digital signal processing. This camera shall have the image stabilization and the automatic tracking.

#### 2.0 Bid Specifications

The camera shall incorporate an interline transfer method 1/4" charge coupled device (CCD) with approx. 470,000 picture elements (795Hx596V, 752Hx582V effective). The camera shall produce a picture with more than 520 TV lines of resolution and have a minimum light requirement of 1.0 lux (colour mode) or 0.05 lux (black/white mode) with F1.6 lens (50 IRE) or approx. The camera shall have a video signal to noise ratio of more than 50dB. The video output level shall be 1.0Vp-p (75 ohms, composite) with a BNC type connection. The video camera shall have the ability to switch from colour mode to black/white mode automatically in low light conditions, or manually.

The camera shall have come with **360°endless panning and 90°tilt function**: When operated manually with the joystick of a system controller, the camera will pan and tilt at variable speed while setting the sight of the desired location. When a preset position is input on the keypad or when an alarm signal is received, the camera will move horizontal direction and vertical direction.

The camera shall have **576x zoom function** by the combination of 36x zoom optical zoom and 16x electronic zoom.

The camera shall have up to **256 positions** (determined by the values for pan, tilt, zoom, and focus) preset positions, and can be registered for the camera.

The camera shall have 4 automatic modes: Sequential, Tour, Automatic pan and Auto return. Automatic viewing of up to 128 presets, with selectable switching order and pause times for up to 4 different sequences. The Tour mode that is capable of a maximum of 1000 commands can be stored for each of up to four tour mode. In the Automatic pan mode, the camera monitors a set area at a constant speed, moving back and forth between the left and right edges of the area. The auto return enables automatic return to the mode set in "auto return" when manual operation is not performed within a specified amount of time.

The colour video camera (up to **128 units**) shall have controlled via RS485 (SSP protocol) with either way of the coaxial operation or the twisted pair operation.

The camera shall feature solid state components to resist shock and vibration. The video camera shall be ISO9001 certified and CE listed.

#### 3.0 Minimum Performance Specifications

Specifications	
MODEL	VCC-9800P series
Scanning system	PAL Standard: 625 lines, 25 frames/sec.
Image device	Interline transfer method CCD
Image size	1/4" (Approx. 3.6mm x 2.7mm)
Picture element	795(H)x596(V):All picture elements 752(H)x582(V):Effective picture elements
Geometry	No Geometric Distortion
Synchronising system	Internal sync/Line lock (LINE PHASE)
Resolution	Horizontal: 520 TV lines

		Vertical: 400 TV lines
Video output level		1.0Vp-p(75Ω, composite)
Video S/N ratio		More than 50dB
Minimum Illumination		Approx. 1.0 lux at F1.6, 50 IRE (colour mode) Approx. 0.05 lux at F1.6, 50IRE (black/white mode)
Electronic Shutter		1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 Slow mode: 2x, 4x, 8x, 16x, 32x
White Balance		ATW/AWC/Manual/Outdoor/Indoor/Fluorescent
Backlight compensation		OFF/ON, slide SW, ON=Multi-spot photometry (48 section)/ 5 section photometry/ Multi-spot masking (48 section)
Zoom		Electronic:36x, Optical:x16
Rotation angle		Horizontally 360°endless, vertically 0 to 90°(Mechanical auto flip function)
Rotation Speed		Horizontal Manual: 0.1°/sec to 120 °/sec Preset: 435°/sec
		Vertical Manual: 0.1°/sec to 120 °/sec Preset: 400°/sec
Preset Position		256 position settings
Lens Functions		Focus length: f=3.4 to122.4(mm)(36x zoom)
		Aperture ratio: F=1:1.6(wide angle) to 1:4.5(telephoto)
Communication method		RS485, coaxial or twisted pair
Communication speed(band rate)		2400,4800,9600,19200bps
Address Setting		1 ~ 127
Sockets		Video Signal : BNC connector SSP: RS-485A/B Power Supply:24V AC, 50Hz using VA-84S 230V AC, 50Hz using VA-80S
Environmental Conditions	Temperature	-10 to 50 degree -30 to +50 degree: when the outdoor housing , VA-80EX is used
	Humidity	Below 90% RH
Power requirement		24V AC ±10%, 50Hz or 230V AC ±10%, 50Hz
Power consumption		16W = VCC-MC800P + VA-84S 17W= VCC-MC800P + VA-80S 35W = VA-80EX
Weight	Outdoor types	VCC-9800EXCP/9800EXSP/9830EXCP/9830EXSP: 5.1 kg
	Surface types	VCC-9800INP/9830INP: 2.4kg
	In-ceiling types	VCC-9800EMP/9830EMP/9800EFP/9830EFP: 2.7kg