

Bid Spec**Description**

The color video camera shall be a Sanyo Model number VCC-ZM400 or equivalent. The camera described shall be an industrial grade, High resolution Day/ Night Zoom Camera.

Bid Specification

The color camera shall incorporate an interline transfer method 1/4" charge coupled device (CCD) with 811 (H) x 508 (V) picture elements (768 H x 494 V, effective). The color video camera shall produce a picture with 520 TV lines of resolution. Shall have a minimum light requirement of 1.2 Lux at (F1.6, max AGC 50 IRE), 0.04 Lux (F1.6 x 32 senseup 50 IRE), and 0.5 Lux (F 1.6 max AGC, 20 IRE), 0.015 Lux (F1.6 x 32 senseup 20 IRE) in **Color Mode**. Shall have a minimum light requirement 0.06 Lux (F 1.6 max AGC 50 IRE), 0.002 Lux (F 1.6 x32 senseup 50 IRE) in **Black and White Mode**. The video camera shall have a video signal to noise ratio of more than 48db. The video output level shall be 1.0 V (p-p, 75 ohms composite) with a BNC type connection. The camera lens shall be a built in x22 optical, and x16 electronic zoom (f=3.6-79.2mm, F1.6 – 3.8 auto focus). The video camera shall have an available backlight compensation circuit (ON + Multi-spot photometry / 5-section photometry / 48 section Multi spot masking system). The camera shall have white balance (ATW/ AWC/ or manual), On/ Off Gain control, and Electronic Shutter (1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000). The camera shall have built in intelligent motion detection with 48 on-screen-programmable sensors (8X6 elements). Shall have 4 user programmable privacy zones. The video camera shall have On/Off sensitivity control with up to 32x sensitivity up feature. The camera shall have RS-485 (SSP) communication. The color video camera shall not exceed a dimension of 129.8 L x 72.9 H x 54 W mm, and weigh no more than 380 grams (13.4 Oz). Power requirements for the video camera shall be 12V DC or 24V AC, 60 Hz and shall consume approx. 4.5 Watts. The video camera shall be constructed of a durable metal cabinet and shall be magnetic and electro-statically shielded. The camera shall feature solid-state components to resist shock and vibration. The video camera shall be ISO9001 certified and UL listed.

Minimum Performance Specifications

Specifications	
MODEL	VCC-ZM400
Scanning System	NTSC Standard 525 lines, 30 frames/sec: 2:1 Interlace
Image Sensor	1/4" (approx. 3.6 mm x 2.7 mm) Interline Transfer CCD
Picture Elements	Total: 811(H) x 508(V), Effective: 768(H) x 494(V)
Horizontal Resolution	520 TV lines
Minimum illumination	1.2 Lux at (F1.6, max AGC 50 IRE), 0.04 Lux (F1.6 x 32 senseup 50 IRE), 0.5 Lux (F 1.6 max AGC, 20 IRE), 0.015 Lux (F1.6 x 32 senseup 20 IRE) Color Mode 0.06 Lux (F 1.6 max AGC 50 IRE), 0.002 Lux (F 1.6 x32 senseup 50 IRE) B/ W Mode
Electronic sensitivity	ON/ OFF, (on-screen) ON = x2/ x4/ x8/ x16/ x32 (on-screen)
Video output level	1.0 V (p-p) (75 ohms, composite)
Video S/N ratio	More than 48 dB
Backlight compensation	ON=Multi-spot photometry / 5-section photometry / Multi-spot masking system (48-section, on-screen)
White-balance	ATW/ AWC/ Manual
Gain control	On (-6 to +9dB) /OFF
Electronic shutter	1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000 sec.
Light control	Auto/ Manual
Lens	f = 3.6-79.2mm F1.6 - 3.8 auto focus
Synchronizing System	Internal sync. / Line lock
Privacy masking	ON/OFF, max 4 zone settings
Optical Zoom	X22
Electronic zoom	X16
Communication	Coaxial / RS-485 (SSP)
Environmental conditions	Temperature: -10°C to 50°C, [14°F to 122°F], Humidity: within 90% RH
Power requirement	24V AC, 60Hz or 12V DC
Power consumption (approx.)	4.5 W
Dimensions (approx.)	129.8 L x 72.9 H x 54 W mm
Weight (approx.)	380 g (13.4 Oz)

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