

**SANYO VDC-HD3500 1080p 4 MEGAPIXEL DAY-NIGHT VANDAL DOME CAMERA
WITH AUDIO**
Architect & Engineer Specifications

Bid Spec

1.0 Description

The colour video camera shall be a Sanyo Model number VDC-HD3500P or equivalent. The camera described shall be an industrial grade, high sensitivity, 4 Megapixel 1080p Full High Definition Day/Night Network CMOS Vandal Dome with Bidirectional Audio.

2.0 Bid Specification

The colour camera shall incorporate a 1/3" progressive scan CMOS image sensor, with a built-in vari-focal lens (3–9 mm) and be designed to provide advanced image support resolutions up to 4 Megapixels with effective resolution of 2288(H) x 1712(V).

The colour video camera shall be designed to provide 1080p H.264 compressed video at 25 frames per second and provide dual Codec for simultaneous H.264 and JPEG transmission.

The camera shall provide Day & Night functions allowing automatic changeover from colour mode to B&W mode as well as removal of an IR cut filter during low light operation. The camera shall provide color pictures in light down to 1.0 lux at F 1.2 and provide B/W pictures in light down to 0.1 lux at F 1.2.

The camera shall be of a compact Vandal Dome form factor with the following mechanical features; a polycarbonate bubble, low profile cast aluminum housing and True 3-axis gimbal. The camera shall be capable of being mounted indoors or outdoors and be constructed to the International Waterproof and Dustproof Standard: IP66.

The camera shall provide for Audio input and output directly to and from the camera.

The camera shall provide HD image recording to an on-board SD memory card slot (card optional) and also shall provide flexible on-board recording capability allowing recording by Alarm (motion or input 1/2) including programmable pre-alarm recording, or Back-up in the event of loss of network.

The camera shall have advanced programmable motion detection and shall have video analytics with Human Face Detection available in both Detection and Masking modes selectable by area with up to 32 faces shall be detectable at once.

The camera shall have an IP interface at 10 Base-T/100 Base-TX/PoE compatibility and support both fixed IP addresses and dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.

The camera shall provide an integral E-mail function for up to five (5) E-mail addresses with E-mails automatically sent as an alarm notification or at regular intervals. An image shall be able to be attached to the e-mail in either case.

Camera shall maintain a transactional log when accessed via the network containing the most recent 100 times and IP addresses of those given access. The camera shall also maintain an "Up Log" showing power on time.

The camera shall not exceed a dimension of Φ 146 X 94mm and weigh no more than 770 grams. The power requirements for VDC-HD3500P shall be 24V AC, 50Hz, 12-15V DC, IEEE 802.3af PoE and shall consume approx. 6.8 W.

The video camera shall be ISO9001 certified and have CE marking.

Camera

Image sensor	1/3" Progressive Scan CMOS
Number of pixels	Effective 16:9 1920 (H) x 1080 (V); 4:3 2288 (H) x 1712 (V)
Minimum illumination (approx)	Colour 1.0 lux (F1.2, GAIN HIGH), B/W 0.1 lux (F1.2, GAIN HIGH)
Video S/N ratio	More than 50dB (AGC off)
Lens	Built-in vari-focal lens f=3 to 9mm, F1.2 to2.1
Electronic focus adjustment	with focus assist
Backlight compensation	Multi/Centre/Face/Off, Mask settings possible
White balance	ATW, AWC, MWB, Outdoor, Indoor, Fluorescent (Adjustable R and B signals in MWB mode)
AGC	Normal, Middle, High, Off Adjustable (gain control in Off mode)
Electronic shutter	1/25, 1/50, 1/120, 1/250, 1/1000, 1/2000, 1/4000, 1/10000. Long shutter: x1, x2, x4, x8, x16, x 32
Auto iris control	DC type
Gamma	0.45 / 1 / Mode 1 / Mode 2
Aperture compensation	On / Off
Day/Night	True Day/Night
DNR	3D
Title	16 Characters
Motion detection	Yes, Video analytics
Face detection	Yes

Privacy mask On / Off

Network

Image compression MJPEG/H.264

Image Size: H.264: 16:9 HD: 1920 x 1080, 25 ips. HD: 1280 x 720 25ips; 640 x 360 25 ips; 320 x 180 25 ips. H.264 4:3: 1600x1200 25 ips; 1280 x 960 25 ips; 1024 x 768 25 ips; 640x480 25 ips; 320 x 240 25 ips.

Image Size: MJPEG: 16:9 HD: 1920 x 1080; HD 1280 x 720; 1024 x 576; 640 x 360. JPEG 4:3 4M: 2288 x 1712, 2M: 1600 x 120

Picture quality Quality: Basic, Normal, Enhanced, Fine, Super fine.
Bit rate: Changeable

Frame rate Max 25ips (1920 x 1080)

Streaming number 4

Video streaming Multi stream H.264 and MJPEG (Max 1920 x 1080 25ips)

Audio compression method G.711, Bidirectional (Full duplex)

Protocol TCP/IP, UDP, HTTP, SMTP, NTP, DHCP, FTP, DDNS, RTP, RTSP

Simultaneous access capacity Max 2.0

Security BASIC authentication (ID/password), SSL supported (Only JPEG), IP filtering

Interface

Monitor output Composite out (for adjustment only)

SD memory card slot 1(SDHC)

Network port 10BASE-T / 100BASE-TX (RJ45 connector)

Alarm input/output 2/2

Audio input/output Mic in/Line out (3.5 Φ mini jack)

General

Environmental conditions	Operating Temperature: -10 to +50°C; Humidity: within 90% RH. Storage Temperature: -20 to +70°C; Humidity: within 70% RH
Power supply	24V AC \pm 10%, 50Hz/ 12-15VDC, PoE (IEEE802.3af)
Power consumption (approx)	6.8w (with Heater 18W)
Dimensions (W x H x D)	146 x 94mm
Weight (approx)	800g