

## VP-HDA20-SM

20:1 HIGH DEFINITION ANALOGUE,  
VANDAL RESISTANT PTZ DOME



Using Sony STARVIS low light back illumination technology.

**STARVIS**

The VP-HDA20-SM is a discrete vandal resistant PTZ dome, offering 20:1 optical zoom in full HD 1080p resolution in both TVI and AHD High Definition Analogue (HDA) formats. Included are a wide range of features, making it suitable for an extensive range of applications.

The VP-HDA20-SM camera uses Sony STARVIS technology to deliver superb 1080p images, with excellent low light performance. For challenging lighting conditions the VP-HDA20-SM dome has 120dB of Wide Dynamic Range to provide balanced images in areas where there are contrasting scenes of view.

Coming as a sealed unit that simply needs to be mounted directly to the ceiling, then powered up. Being of sealed design, there is no need need to open the dome and being exposed to moisture during installation, avoiding the chance of condensation during operation. The dome default settings allow it to work automatically out of the box on TVI coax (for image and control) and for CVBS applications, auto sensing Vista RS485, Pelco D or Pelco P telemetry protocols, reducing installation time.

The VP-HDA20-SM includes 4 alarm inputs and 2 alarm outputs on the flying lead, along with 240 presets, 8 preset tours and 8 learn tours. The domes 360° continual rotation and variable speed control between 0.10/sec and 380°/sec provides the operator excellent control, allowing easy tracking of moving objects.

### Key Features:

#### Full HD TVI & AHD imaging

The high clarity bubble and full HD 1920x1080 resolution in TVI and AHD ensures excellent images over the coax

#### Triple Format

A TVI / AHD output provides 1080p images and control over the coax, a separate CVBS (600TVL) output used with the auto sensing RS-485 ensures compatibility with all modern DVRs

#### Vandal resistant IP66 housing

The IK10 housing has been tested to BS EN 62262: 2002 standards, means it is robust enough to survive in most environments

#### Multiple inputs and output

4 alarm inputs and 2 alarm outputs allow for simple direct connection to the camera

#### Wide Dynamic Range (WDR)

120dB of WDR improves image quality in challenging lighting situations

## TECHNICAL SPECIFICATION

Model	VP-HDA20-SM
<b>IMAGE</b>	
Resolution	TVI: 1080p / AHD: 1080p / CVBS: 600TVL
Sensor	1/2.8" Sony STARVIS CMOS
Pixels	1945(H) x 1109(V)
Operation	True Day/Night
Scanning Mode	Progressive
Video Output	TVI or AHD & CVBS (PAL)
Optical / Digital Zoom	20:1 / 16x
Focal length	f4.7mm - 94mm
F stop	F1.6 - 3.0
Horizontal angle of view	4.7mm - 55.5° / 94mm - 3°
Min Illumination	0.35Lux @ 50IRE (Colour), 0.013Lux @ 50IRE (Monochrome)
WDR	120dB
Defog	Yes
Noise Reduction	3DNR
Exposure Control	Auto, Manual, Shutter Priority, Iris Priority
White Balance	Auto, Incandescent, Fluorescent, Outdoor, Manual
Shutter Speed	25fps: Auto (1/30,000 to x8 sec.), Manual 50fps: Auto (1/50,000 to x8 sec.), Manual
Tilt angle	-10° to 90° (Digital Flip)
Auto Calibration	0.1° - 6°
Panning angle	360° Continuous Rotation
Max Speed	380° /sec.
Alarms	4 Input, 2 Outputs (5v TTL)
Auto Scan	1 Auto Pan, 16 Auto Scans
Preset	240
Pattern	8
Tour	8
Area Title	8 areas with title (upto 12 characters)
Privacy Zone	16
Telemetry Control	Coaxial: Hikvision C / Pelco C RS-485: Auto 485 / Vista / Pelco P & D / Fastrax 2 & 2E
Baud Rate	2400, 4800, 9600, 19200, 38400
ID (Camera Address)	3999
Video Connection	TVI or AHD: BNC and CVBS: BNC
Video Output	1.0 Vp-p (75 ohm, composite)
Dimension (unit)	Ø154 x 150 (H) / Bubble diameter Ø120 mm
Dimension (boxed)	225(H) x 220(W) x 220(D) mm
Weight (net)	1.5Kg
Weight (gross)	2.1Kg
Operating temperature	-10°C to 50°C (14°F to 122°F)
Operating humidity	0 to 90%RH (non-condensing)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
IP Rating	IP66
Vandal Resistance	IK10 (BS EN 62262)
Power Source	12vDC (-10-15%) / 24VAC (±10%)
Power Consumption	12W @ 12VDC / 24VAC

## Models In This Range

**0766610**  
**VP-HDA20-SM**

## Associated Products

**0498930**  
**VRD-EWMB**  
Wall Bracket

**0457230**  
**VDM-ECMA**  
Corner mount adaptor for wall bracket

**0457240**  
**VDM-EPMAg**  
Side pole adaptor fro wall mount bracket

**0498940**  
**VRD-EPMB**  
Pendant mount bracket

**0690220**  
**VRD-TMJB**  
Tower mount with junction box




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DS - VP-HDA20-SM - Version 1

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