

Varifocal Fixed Dome Camera

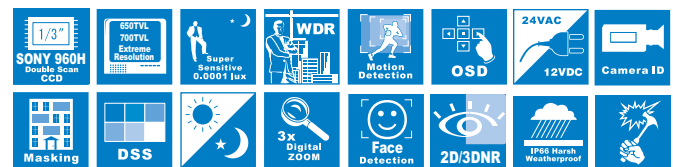
The rugged VDA110E fixed dome camera is ideal for any surveillance application requiring an analog CCTV camera. The high-resolution CCD provides clear video for both day and night surveillance.

This dome uses a Sony 960H double-scan CCD for very high resolution images, 650 TVL Color and 700TVL B&W. Super Wide Dynamic range resolves details in high contrast scenes. And True Day/Night operation with IR cut filter.

The IP66 rated enclosure provides protection under the most extreme environments. It is resistant to dust, moisture and salt water installations making it suitable for any location.

The Installer-friendly design allows pre-installation of the dome base, with an interchangeable camera module. Scene positioning is easily accomplished by the 3-Axis mounting gymbal, viewed using the secondary BNC monitor port.

Combined with durable construction, the VDA110E makes a fine vandal-resistant solution for harsh lighting environments.



Regular Backlight Compensation circuits adjust video levels to make dark subjects brighter. However, bright backgrounds get washed out, losing detail. Super Wide Dynamic Range (sWDR) digitally adjusts all pixels to optimum brightness, retaining detail in both bright and dark areas.



Integrated Surge Protection prevents damage from harmful voltage spikes, and is augmented by a removable fuse. The adaptive Power circuit allows operation from DC11V-DC40V and AC15V-AC30V increasing reliability from power fluctuations, with a non-polarity input.



Conventional IR cameras have fixed IR output, and objects in close proximity will become washed out. To compensate, these types of cameras will shut down the iris, darkening the entire scene. Intelligent IR control prevents oversaturation when objects come close to the camera. By varying the IR output, this allows background detail to remain visible.

Features

- High Performance 960H Double Scan CCD
- High Resolution 650 TVL color, 700 TVL B&W
- 3.3mm-12mm or 7.5-50mm Varifocal lens
- Super Wide Dynamic Range
- 3DNR - Dynamic Digital Noise Reduction
- Digital Slow Shutter to increase light sensitivity
- IR Cut Filter for True Day/Night
- 0.0001 Lux Minimum Illumination (DSS)
- RS485 & internal buttons to control OSD
- Privacy Masking with 4 Zones
- IP66 rated, Vandal Resistant Design
- 3 axis optics module with 90 degree tilt
- Extra BNC for Test Monitor



Regular CCD



Double Scan CCD w/ 3DNR

Regular CCD's can exhibit modest low light sensitivity with increased noise levels. Conventional 2DNR circuits are frequently added to reduce noise, but still suffer from night time motion blur. 3DNR corrects this with sophisticated DNR algorithms, providing clear low light images even with moving objects.



VDA110E SPECIFICATIONS

Video

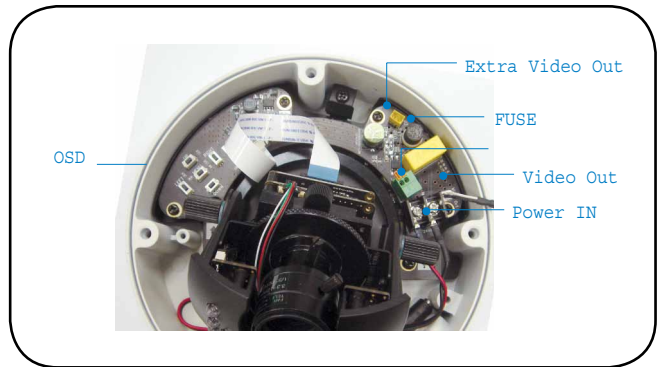
CCD Sensor	1/3" Sony 960H Double Scan CCD
Video System	NTSC
Horizontal Resolution	650 TVL Color, 700 TVL B&W
Auto Iris Type	DC iris
Synchronization System	Internal
Lens	3.3-12mm or 7.5-50mm
Electronic Shutter	1/60-1/100,000 second
Auto White Balance Range	1800K-10,500K
S/N Ratio	More than 52dB (AGC off)
Day/Night	True Day/Night w/ IR Cut Filter
Minimum Illumination	0.0001 lux (DSS on)

Connectors/Switches

Main Video Output	BNC x 1, 1.0Vpp, 75 ohm, composite video
Service Video Output	BNC x 1, pigtail cable with pcb plug
RS485 Input	2 Conductor Spring Terminal block

Other

Environmental Rating	IP66
Power Requirements	12VDC/24VAC dual voltage, auto-polarity 12VDC 260mA max 24VAC 130mA max
Operating Temperature	14F-122F
Humidity	Within 90% RH
Dimensions	164mm x 121.5mm (Diameter x Height)



OSD Features

Day & Night Modes	Color / BW / Auto
Automatic Gain Control	Low / Middle / High / Off
White Balance	ATW / ATC / Manual
DSS	On / Off (2x-128x)
Digital Noise Reduction	2DNR/3DNR Selectable
Privacy Modes	4 Programmable Zones
Image Flip	Yes
Camera Title	alphanumeric, adjustable position
Back Light Compensation	Low / Middle / High / Off
Digital Zoom	Off / 1.5x / 2x / 3x
RS485	Push Terminal Block, 2 wire. Pelco D/P

VDA110E Series Optional Accessories

Model	Description
VDA110WM-KIT	Wall mount kit; Includes VDA110DC Dome cover & VHM-370WM Wall bracket
VDA110PM-KIT	Pendant mount kit; Includes VDA110DC Dome cover & VHM-370PM Pendant bracket
VHM-370PO	Pole Mount
VHM-370CM	Corner Mount
VDA110-HEATER	User installable Heater to allow use to -40F (-40C), 24VAC Note: Use of Heater requires operation of camera at 24VAC only

VDA110E Feature Matrix

Model	CCD	DSP/ OSD	H Res TVL	Lens	S/N Ratio (AGC off)	Min. Illumin. (Lux)	IR LED
VDA110E-VFAL12DN VDA110E-VFAL50DN	1/3" Sony 960H Double Scan	2D/3DNR, sWDR, DSS, OSD, Cam Title, Dig Zoom, Privacy 4x, Flip,	650/700	3.3-12mm 7.5-50mm	>68dB	0.0001 DSS on, 0.2 DSS off	None None

VDA110 Series Model Variants

Model	CCD	DSP/ OSD	H Res TVL	Lens	S/N Ratio (AGC off)	Min. Illumin. (Lux)	IR LED
VDA110H-VFAL49DN VDA110H-VFAL49IR VDA110H-VFAL22DN VDA110H-VFAL22IR VDA110H-VFAL50DN	1/3" Sony Super HAD II	3DNR, hsBLC, Sens-up, OSD, Cam Title, Dig. Zoom, Privacy 4x, Flip, Intelligent IR (on IR models)	560/600	4-9mm 4-9mm 9-22mm 9-22mm 7.5-50mm	>52dB	0.00001 DSS on, 0.2 DSS off	None Yes None Yes None
VDA110S-VFAL12DN VDA110S-VFAL12IR	1/3" Sony Super HAD II	2D/3DNR, WideLux sWDR, Sens-up, OSD, Cam Title, Dig Zoom, Privacy 8x, Dig Stabilizer	600/650	2.8-12mm 2.8-12mm	>52dB	0.0001 Sens-up on, 0.1 Sens-up/IR off,	None IR
hsBLC=Highlight Suppression Backlight Compensation, adjustable All IR LED cameras 0 lux up to rated distance All IR LED 850nm wavelength							

Design and specifications are subject to change without notice.

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