

VDA110WD-VFAL50DN

Wide Dynamic True DN SuperDome camera

Product Information

VDA110WD is a WDR day/night camera specially designed for the professional Day/Night surveillance. At daytime, the camera features a 480TVL Color image and at nighttime, the image is converted into real B/W mode (Color signal removed) resulting in the resolution and sensitivity greatly enhanced. The unique wide dynamic technology with smart & easy-to-use OSD settings provide users with always the optimum solution for the best image quality at various situations. The camera incorporates an Intelligent CDS sensor and mechanical day/night dual filter system so that the filter accurately switched on and off with the image changed from Color to B/W or B/W to Color mode at 5 lux darkness. Specially designed power circuit enables the camera operates from DC11V to DC40V and from AC15V to AC30V maximizing the reliability of the unit from power fluctuations. This wide tolerance accepts most of unstable power supplies without failure before or after installation. It accepts either DC12V power supply or AC24V unit and with non polarity input.



MODEL	VDA110WD-VFA150DN
Image Sensor	1/3" Sony double scan CCD
Effective Pixels	NTSC: 768(H) x 494(V) PAL: 752(H) x 582(V)
H.Resolution	NTSC: 500 TV Lines (at Day) / 550 TV Lines (at Night) PAL : 490 TV Lines (at Day) / 540 TV Lines (at Night)
Synchronizing System	Internal / Line Lock
Scanning System	NTSC 525 Lines PAL 625 Lines 2:1 Interlaced
Video Output	1.0Vp-p Composite. 75 Ohms
S/N Ratio	More than 48 dB (AGC Off)
Min. Illumination	0.2 Lux at F1.3 (DSS off) 0.0001 Lux at F1.3 (DSS on)
Back Light Compensation	ON/OFF by OSD
Shutter Speed	NTSC: 1/60~1/100,000 sec PAL: 1/50 ~ 1/100,000 sec
Gamma correction	Standard r=0.45
White balance	2100°K ~ 9100°K Auto ATW/Push Lock selectable by OSD
Gain Control	Standard: -6dB ~ 42dB Auto / Maximum by OSD
Smear Effect	0.005%
Power Source	DC12V / AC24V Dual power
Operating Current	At 12VDC 240mA Max.- (Tol. 11VDC~40VDC) At 24VAC 120mA Max. - (Tol. 15VAC~30VAC)
Lens	7.5 ~ 50mm Varifocal lens
Iris Control	ESC / Auto by slide switch
Operating Temperature	14° F ~ 122° F (-10° C ~ +50° C)
Humidity	Within 90% RH
Measurement (mm)	121.5(D) X 164(L)
Weight (Approx.g)	1800
Mechanical	
Lens	7.5mm~50mm Varifocal DC iris
IR sensitivity	Yes (IR Cut filter removable)
True Day/Night	Automatic change from Color (Day) to B/W (Night)
Filter	With mechanical Filter change (a Blue filter built-in)
OSD Menu	
WDR	Auto/On/Off
White balance	Auto (ATW)/Push Lock/User selectable (Push: 1800°K~10,500°K)
Gain Control	Low, Middle, High, Off Selectable
Shutter speed	1/60 - 1/120,000 sec (NTSC), 1/50 - 1/100,000 sec (PAL)
Digital Slow Shutter	Off/2 x ~ 160 x (DSS)
Privacy Masking	On/Off (4 programmable zones)
Digital zoom	OFF, 1.5 x, 2 x, 3 x.

specification subject to change without notice

Special features:

- 7.5~50mm / F1.3 Aspherical Day/Night Varifocal Lens built-in
- Super Wide Dynamic (sWDR)
- IR Sensitive mechanical Day/Night filter system built-in (ICR)

General Features:

- Super Wide Dynamic (sWDR)
- Greatly enhanced Sensitivity of 0.0001 Lux at F1.3
- High resolution of 500 TVL at Day/550 TVL at Night
- True Color at Day and Real B/W at Night image conversion
- Privacy image masking with free position : 4 Zones
- Easy-to-use OSD functions
- RS-485 (Pelco-D Protocol)
- Digital zoom(1.5X, 2X, 3X)
- Digital Slow Shutter (DSS)
- Protection from all kinds of conceivable dangers
 - Vandal-proof
 - Fire resistant
 - Dust and Moisture free (IP66 Weatherproof)
 - Tamper resistant
 - Free from Shock and Vibration
 - Rust free against salty environment
 - Perfect Surge voltage protection
 - Protection from extreme temperature range of 40° F ~ 122° (-40° C ~ +50° C) – W/Additional heater
- Advantageous ways of installation
 - Tool-free 3-Axis mounting mechanism
 - Detachable camera set
 - Dome bubble rotation
 - Industrial standard mounting arrangement
 - Additional service monitoring output