

VDA110WD-VFAL12DN / VDA110WD-VFAL50DN Wide dynamic True DN SuperDome camera

Product Information

VDA110WD-DN is a WDR day/night camera specially designed for the professional Day/Night surveillance. At daytime, the camera features a 550TVL Color image and at nighttime, the image is converted into real B/W mode (Color signal removal) resulting in the resolution and sensitivity greatly enhanced. The unique wide dynamic technology with smart & easy-to-use OSD settings provide users with 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 a designated lux level by OSD. Specially designed power circuit enables the camera to be operated 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 12VDC power supply or 24VAC unit with non polarity input.



Special features for the model

- Super Wide Dynamic (sWDR)
- IR Sensitive mechanical Day/Night filter system built-in (ICR)

General features

- Greatly enhanced Sensitivity of 0.0001 Lux at F1.3
- High resolution of 550 TVL at Day / 600 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°F (-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

MODEL	VDA110WD-VFAL12DN / VDA110WD-VFAL50DN
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 : 550 TV Lines (Day) / 600 TV Lines (Night) PAL : 540 TV Lines (Day) / 590 TV Lines (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 $\gamma = 0.45$
White Balance	1,800°K ~ 10,500°K Auto
Gain Control	ATW / Push Lock selectable by OSD Standard : -6dB ~ 42dB Auto / Maximum by OSD
Smear Effect	0.005%
Power source	12VDC / 24VAC
Operating current	At 12VDC 240mA Max.- (Tol. 11VDC~40VDC) At 24VAC 120mA Max. - (Tol. 15VAC~30VAC)
Lens	3.3~12mm Varifocal lens / 7.5~50mm Varifocal lens
Iris Control	ESC / Auto by slide switch
Operating Temperature	14°F ~ 122°F (-10°C ~ +50°C)
Heater option	-40°F ~ 122°F(-40°C ~ +50°C)
Humidity	Within 90% RH
Measurement (mm)	164(Ø) x 121.5(H)
Weight (Approx.g)	1,900
Mechanical	
IR sensitivity	Yes (IR Cut filter removable)
True Day/Night	Automatic change from Color (Day) to B/W (Night)
Filter change	With mechanical Filter change (a Blue filter built-in)
OSD Menu	
WDR	Auto / On / Off
White balance	Auto (ATW)/Push Lock/User selectable (Push : 1,800°K~10,500°K)
Gain Control	Low, Middle, High, Off
Shutter speed	1/60 ~ 1/100,000 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, 1.5x, 2x, 3x.

Function

