

WideLux WDR Super Night Vision Camera

The VN70IIS is an Outdoor IR camera designed for optimum Day & Night surveillance, with 2 modes of DNR and Wide Dynamic Range.

WideLux technology is unmatched in visual quality, with exceptional high resolution images and low light sensitivity.

Powerful IR illuminators allow clear viewing up to 164' with no ambient light at night. Intelligent IR Protection technology greatly extends IR LED lifespan and provides consistent lighting over time.

The IP67 rated all-metal enclosure withstands a wide temperature range and harsh environmental conditions.



WideLux™



Conventional



WideLux

Super Low Light Performance with Multi-Scan CCD.

Conventional WDR cameras use a Double Scan CCD to extend dynamic range. However, this comes at the expense of light sensitivity, requiring twice as much light compared to a Single Scan CCD. WideLux double scans the CCD in situations requiring WDR. When the ambient lighting becomes weak, WideLux reverts back to single scan mode, doubling light sensitivity.



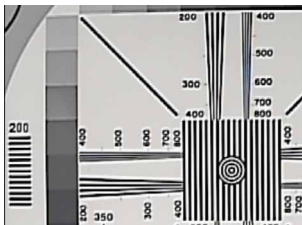
Conventional



WideLux

Linear Wide Dynamic Range

A normal WDR sensor has difficulty with low-contrast scenes. The non-linear process results in lower shadow detail in many scenarios. WideLux balances the wide dynamic process, retaining detail under a wider range of lighting conditions.



600/650 TVL High Resolution

The WideLux Image Signal Processor employs a special timing generator that extracts the maximum detail possible from the CCD, and provides superior detail in both vertical and horizontal planes.



WideLux Features

- 1/3" Sony Super HAD CCD II
- High Resolution 600 TVL Color, 650 TVL B&W
- 0.0001 lux min. Illumination (Sens-up)
- sWDR
- 2D/3D Digital Noise Reduction
- Electronic Image Stabilizer
- Anti-Color Rolling
- Highlight Eclipse
- Digital Image Stabilizer

Features

- All-in-One solution with IR Illuminator, Outdoor housing, Sunshield & Bracket
- IR Cut Filter for True Day/Night
- Separate lens & IR glass prevents IR reflection
- IR Protection doubles Illuminator lifespan
- Intelligent IR control prevents oversaturation
- IP67 rated Weather resistant
- Cable managed bracket
- 12VDC/24VAC, auto-polarity



VN70IIS SPECIFICATIONS

Video

CCD Sensor	1/3" Sony Super HAD CCD II
Effective Pixels	768x494
Horizontal Resolution	600 TVL (Day) / 650 TVL (Night)
Sync	Internal
Scanning System	NTSC 525 lines; 2:1 interlace
Video Output	1.0 Vpp composite 75 ohms
S/N ratio	>52dB (AGC Off)
Minimum Illumination	0.1 lux (IR Off, Sens-up off), 0 lux IR On
Gamma Correction	Standard $\gamma=0.45$
Smear Effect	0.005%
Power Source	12VDC/24VAC, Auto polarity
Operating Current	12VDC: 120mA-520mA 24VAC: 90mA-400mA
Lens	2.8-12mm/5-50mm VF DC Iris
IR Spectrum	850nm
IR Viewable Distance	164' (50m) in zero light
MTBF of IR	20,000 hours
Operating Temperature	14F-122F (-10C--+50C)
Humidity	Within 90% RH
IP Rating	67
Measurement, inches (mm)	3.8"W x 3.6"V x 10.2"L (97W x 90.5V x 257L)
Weight	4.85lbs (~2200g)

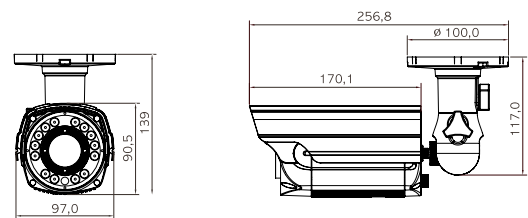
WideLux OSD Features

Camera Title	15 Char. alphanumeric, adjustable position
Automatic Gain Control	Off/Low/Middle/High
Shutter	1/160-1/90,000 sec/A. FLK/Off/Auto/X2-X512
Sens-Up	Off/Auto 2x-Auto 512x
WDR/BLC/ECLPS	WDR: Low/Middle/High (Highlight) Eclipse: Programmable BLC: Low/Middle/High
White Balance	ATW/Push Lock/Manual/Col-Roll
Digital Noise Reduction	2DNR/3DNR programmable
Effects	Digital Zoom: 1x-6x Image Freeze: On/Off D-Effect: Off/Rotate/Mirror/V-Flip
Motion Detection	8 Programmable Zones
Privacy Mask	8 Programmable Zones
Language	English/Francais/Espanol/Russian/Korean
Digital Stabilizer	On/Off
RS485	Pelco D, Programmable

Zoom, Focus & OSD Adjustment



Dimensions (mm)



VN70IIS Series Feature Matrix

Model	Lens
VN70IIS-VFAL12	2.8-12mm VF DC Lens
VN70IIS-VFAL50	5-50mm VF DC Lens

VN70IIH Series Model Variant

Model	Features	Lens
VN70IIH-HVFAL12IR	560/600 TVL, 0.2 Lux (Sens-up off), OSD, hsBLC, 3DNR, Sens-up, Privacy Mask, ICR, 50M IR distance	2.8-12mm VF DC Lens
VN70IIH-HVFAL50IR		5-50mm VF DC Lens

Note: This based on the hsBLC/3DNR chipset, and the feature set differs from that of WideLux

Design and specifications are subject to change without notice.

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