

VN90SNX

Super Night Vision Outdoor camera

Product Information

VN90SNX is a super sensitive IR camera specially designed for a professional Day/Night surveillance, viewable up to 70M at moonless night. Powerful night vision technology used for this unit is very unique so that the camera can view far longer distance at less power consumption and with little noise at night. The camera incorporates a positive CDS sensor and mechanical day/night dual filter system so that the IR is accurately switched ON and Off at 5 lux darkness with the image changed from Colour to B/W and Vice Versa. Specially designed power circuit enables the camera to be installed on an existing UTP or telephone cable without affecting on the camera's Day/Night performance.



• Conventional Sony Ex-view IR cameras

Darker image at even much shorter distance.



• VN90SNX

Absolutely clear and bright image at even much longer distance.



Key Features:

- Powerful night sensitivity
- Intelligent IR Compensation
- Extended IR LED's life cycle and the sensitivity
- Easy-to-use OSD function set-up (possible to control locally or remotely)
- IR Sensitive mechanical Day/Night filter system built-in
- True Colour at Day and Real B/W at Night conversion
- High resolution of 500 TVL at Day/560 TVL at Night
- DC24V or AC24V Non-polarity power input
- IP67 Weatherproof
- Cable concealed thru bracket
- Digital zoom
- Installation with existing telephone cable up to 100M long.

Intelligent IR Compensation

The image reflected from the IR lights becomes WHITE from the conventional IR cameras. The new IR Compensation technology analyzes the light saturation and automatically optimizes the level to the objects being recognizable.



Conventional IR Image



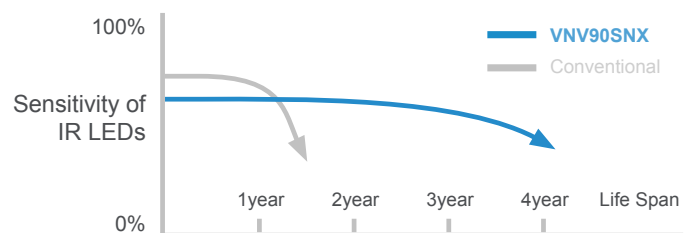
Self-compensated IR Image

Powerful night sensitivity

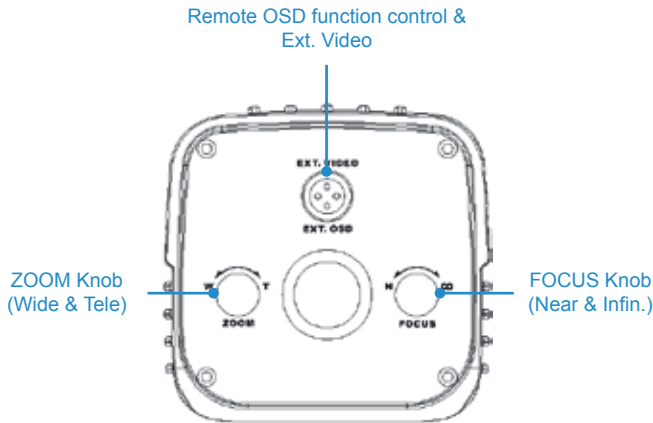
This new night vision camera features an absolutely POWERFUL night vision performance capturing a clear and very bright image at pitch black '0' Lux darkness for at least 70 meter long distance. Used with an unique IR Enhance technology, VN90SNX can see a clear image at least 2 times longer distance compared with conventional high quality Sony Ex-view cameras.

Extended IR LEDs' life cycle and the sensitivity

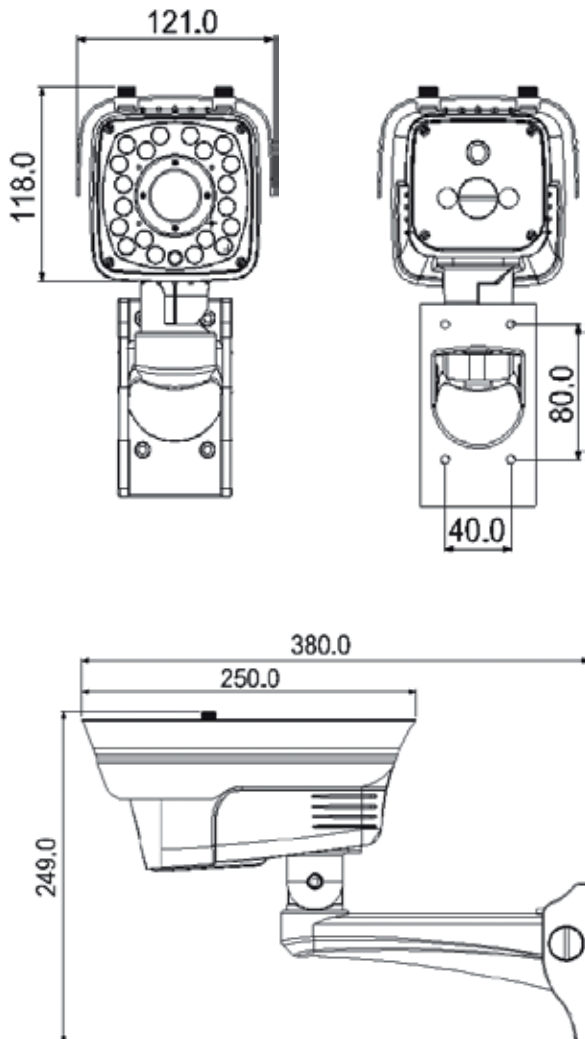
The VN90SNX adapts a special IR life protection technology that extends the life cycle of IR LED's at its maximum period of life span. Conventional IR cameras tend to produce a bright IR image at the beginning but the LED's performance is reduced day by day and finally burned to dead in short time period after the installation. Consequently the night vision performance of conventional cameras is seriously reduced within after several months of operation.



External Zoom & Focus adjustment



Dimension



MODEL	VN90SNX
Image Sensor	STD : 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) / 550 TV Lines (at Night)
Synchronizing System	Internal
Scanning System	NTSC 525 Lines PAL 625 Lines 2:1 Interlaced
Video Output	1.0Vp-p Composite. 75 Ohms
S/N Ratio	More than 50 dB (AGC Off)
Min. Illumination	0.0001 Lux at F1.2 (IR off)
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 Switchable r=1.0 by Dip switch
White balance	2100°K ~ 9100°K - Auto
Gain Control	ATW/Push Lock / User selectable by OSD
Smear Effect	0.005%
Power Source	DC24V or AC24V
Operating Current	120mA at 24VDC(IR "off" Day) 550mA at 24VDC(IR "on" Night)
Lens	9 ~ 22mm Varifocal DC iris
Lens control	Zoom/Focus controllable externally
Operating Temperature	14° F ~ 122° F (-10° C ~ +50° C)
Humidity	Within 90% RH
Weatherproof rating	IP67
Measurement (mm)	121(W) x 249(V) x 380(L)
Weight (Approx.g)	2200
OSD Menu - RS 485 (Remote control via DVR or Controller is available)	
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/ON 1.5 x, 2 x, 3 x.
IR Spectrum	850nm-Ø10 X 30° X 20ea
MTBF of IR	20,000 Hours
IR Spectrum of VL60	850nm-Ø10 X 30° X 20ea
Viewable distance	Up to 70M at moonless night

specification subject to change without notice

