VA100WD
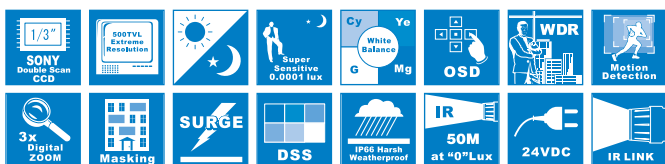## Super Night vision Outdoor camera

Product Information

VA100WD is a WDR day/night camera specially designed for the professional Day/Night surveillance. At daytime, the camera features a 500TVL 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 provides 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 is accurately switched on and off with the image changed from Color to B/W or B/W to Color mode at 5 lux darkness. With user friendly IR Link outputs, installers can easily connect any type of IR illuminator on the spot. Specially designed power circuit enables the camera to be operated from DC12V to DC30V 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 DC24V or AC24V power supply unit with no polarity input.

Key Features

- Super Wide Dynamic (sWDR)
- High performance 1/3" Sony Double Scan CCD
- High resolution of 500 TVL at Day/550 TVL at Night
  - Greatly enhanced Sensitivity of 0.0001 Lux at F1.3
  - Easy-to-use OSD functions (External remote control Key Option)
  - C/CS and Flange-back focus adjustment lever built-in
  - IR Sensitive mechanical Day/Night filter system built-in
  - True Color at Day and Real B/W at Night conversion
  - IR Connection 4P Din Jack (Left&Right) built-in
- Mountable on the Ceiling, Wall, Slope, Table with 3-Axis mechanism
- IP66 Weatherproof
- Installation with existing telephone cable up to 100M long
  - Optic photo sensor built-in
  - RS-485 (Pelco-D Protocol)
  - Side IR(850nm-8 $\varnothing_X$17$^\circ_X$6ea)
  - DC24V Adaptor inclusion
- Long IR Beam Distance : 50M View
- Easy to use OSD menu control
  - Motion detection. – Camera ID – DSS (2x~160x)
  - Digital zoom(1x~3x) – Privacy masking

Intelligent IR Compensation

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

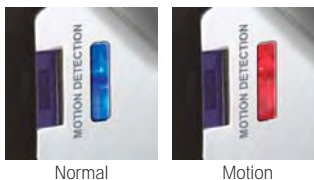Conventional IR Image   Self-compensated IR Image

Super Wide Dynamic (sWDR)

Light level is controllable with provided easy-to-use OSD menu that enables the camera to be ideally set up for the most of different levels of backlit or contrast lighting situations.

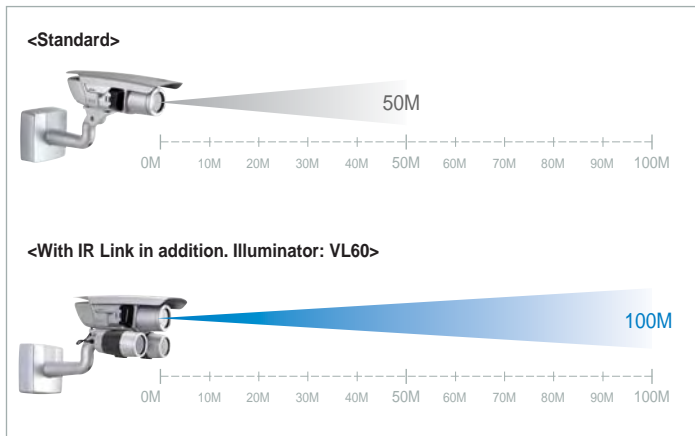BLC OFF   BLC ON   VA100WD

Motion detection Lamp

When the camera detects a motion, the RED LED blinks in order to deter an intruder's attempts of a crime. BLUE LED is on in normal condition,

Normal   Motion

Powerful night sensitivity

This new night vision camera includes high impact infra-red LEDs as a standard capturing a clear and very bright image at pitch black 'O' Lux darkness for up to 50 meter long distance.

<Standard>

50M

0M 10M 20M 30M 40M 50M 60M 70M 80M 90M 100M

<With IR Link in addition. Illuminator: VL60>

100M

0M 10M 20M 30M 40M 50M 60M 70M 80M 90M 100M

VA100WD | Super Night vision Outdoor camera

High power IR LEDs built-in   LED Lamp Interchangeable

Extended IR LEDs' life cycle and the sensitivity

The VA100WD adapts the Visionhitech's special IR life protection technology that extends the life cycle of IR LEDs at its maximum period of life span. Conventional IR cameras tend to produce a bright IR image at the beginning but the LEDs' 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.
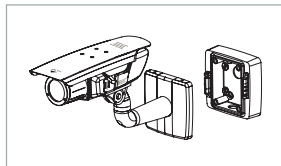
IP66 Weatherproof

The unit is duly passed IP66 international weatherproof standard, allowing the camera to be operated safely from even extremely harsh water storming weather condition.
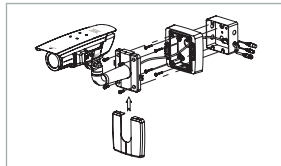
Detachable mounting base

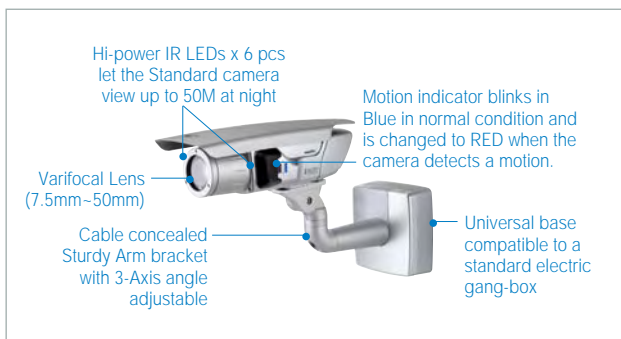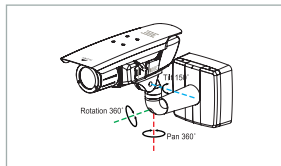The mounting base is separated and can be installed in advance.

Compatible to an electric junction box.

The mounting base is compatible to the industry standard 2-gang junction box for an easy installation.
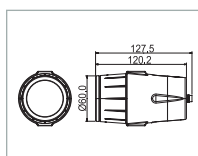
Triple axis mounting.

The unit can position the right angle of view from any of diverse locations like on the wall, Ceiling, Slope, Ground etc.

Rotation 360°   Pan 360°

MODEL	VA100WD
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) / 540 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 48 dB (AGC Off)
Min. Illumination	0.0001 Lux at F1.3 (DSS on) / 0.2 Lux at F1.3 (DSS 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
White Balance	2100°K ~ 9100°K Auto
Gain Control	ATW/Push Lock/User selectable by OSD
	Standard: -6dB ~ 42dB Auto / Maximum by OSD
Smear Effect	0.005%
Power source	24VDC
Operating current	140mA at 24VDC(IR "off" Day)
	360mA at 24VDC(IR "on" Night)
Lens	7.5~50mm Varifocal lens
IR Spectrum	850nm-8Ø X 17°X 6ea
Iris Control	ESC / DC IRIS by OSD Function
Operating Temperature	14° F ~ 122° F (-10° C ~ +50° C)
Humidity	Within 90% RH
Measurement (mm)	140(W) X 260(V) X 448(L)
Weight (Approx.g)	3000
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/ON 1.5 x, 2 x, 3 x.
IR Function	
IR Spectrum	High Power 850nm - 17° (8Ø) x 6ea
Viewable distance	Up to 50M at moonless night
MTBF of IR	20,000 Hours
Addable IR Illuminator	VL60 (Option)
IR Spectrum of VL60	High Power 850nm - 10Ø x 20° x 9, 8Ø x 40° x 5 (14ea)
Viewable distance	Up to 100M at moonless night with VL60 x 2 sets in addition

Hi-power IR LEDs x 6 pcs let the Standard camera view up to 50M at night

Motion indicator blinks in Blue in normal condition and is changed to RED when the camera detects a motion.

Varifocal Lens (7.5mm~50mm)

Cable concealed Sturdy Arm bracket with 3-Axis angle adjustable

Universal base compatible to a standard electric gang-box

Dimension

314.0

114.5   15.6   42.3   271.7
56.6   79.0
134.7
69.5   140.0   73.3
140.0   191.2   214.5

127.5   120.2   Ø60.0

IR Link terminal   Optional IR Illuminator   Dimension