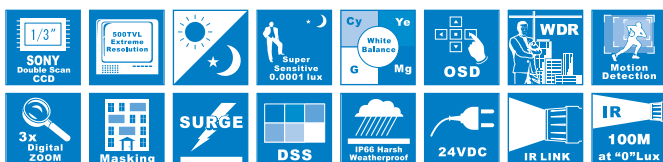# VA100WD+VL60 Super Night vision Outdoor camera

## Product Information

VA100WD+VL60 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.



### Feature icons

- 1/3" SONY Double Scan CCD
- 500TVL Extreme Resolution
- Super Sensitive 0.0001 lux
- White Balance (Cy, Ye, G, Mg)
- OSD
- WDR
- Motion Detection
- 3x Digital ZOOM
- Masking
- SURGE
- DSS
- IP66 Harsh Weatherproof
- 24VDC
- IR LINK
- IR 100M at "0"Lux

## 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 $\varnothing$x17°x 6ea)
  - DC24V/2A Adaptor inclusion
- Long IR Beam Distance : 100M 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.



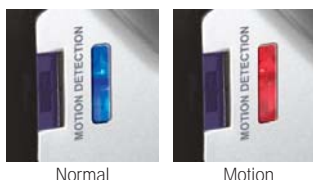Conventional IR Image      Self-compensated IR Image

## 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.
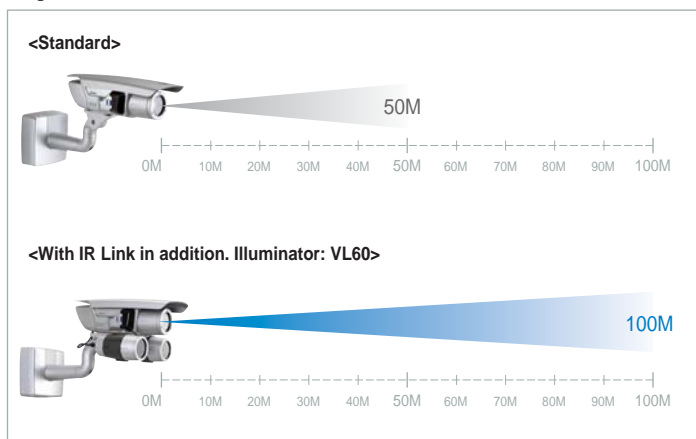


BLC OFF          BLC ON

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 capturing a clear and very bright image at pitch black 'O' Lux darkness for up to 100 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+VL60 | Super Night vision Outdoor camera

## High power IR LEDs built-in    LED Lamp Interchangeable



## Extended IR LEDs' life cycle and the sensitivity

The VA100WD+VL60 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.
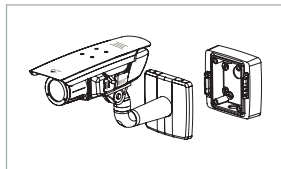
## IP66 Weatherproof

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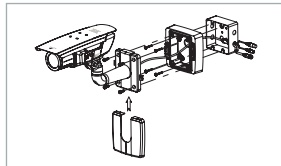


## Detachable mounting base

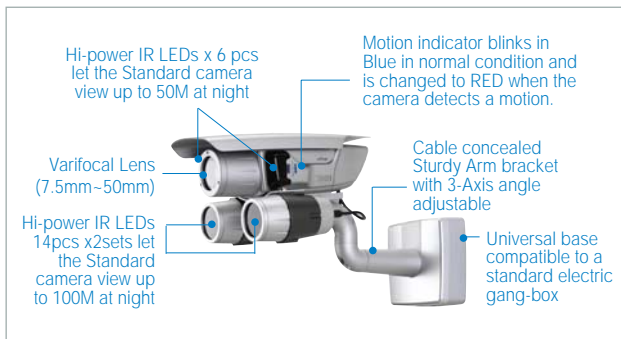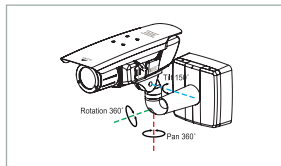The mounting base is separated and can be installed in advance.



## 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+VL60 |
|---|---|
| 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) |
| | 1050mA at 24VDC(IR "on" Night) |
| Lens | 7.5~50mm Varifocal lens |
| IR Spectrum | Side : 850nm-8Ø X17°X6ea |
| | Illuminator : 850nm-10Ø x 20° x 9ea, 8Ø x 40° x 5ea, |
| Iris Control | ESC / DC IRIS by OSD Function |
| Operating Temperature | 14°F ~ 122°F (-10°C ~ +50°C) |
| Humidity | Within 90% RH |
| Measurement (mm) | 220(W) X 263(V) x 448(L) |
| Weight (Approx.g) | 4000 |
| **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 of 6LEDs | 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 |
| IR Spectrum of VL60 | High Power 850nm10Ø x 20° x 9, 8Ø x 40° x 5 |
| Viewable distance | Up to 100M at moonless night with VL60 x 2 sets in addition |

## Dimension





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

Hi-power IR LEDs 14pcs x2sets let the Standard camera view up to 100M at night

Universal base compatible to a standard electric gang-box



IR Link terminal        Optional IR Illuminator        Dimension