



Visionhitech Americas Inc.
A Division of Visionhitech Co, LTD

WideLux™

The NEW Standard in
Adaptive Image Technology



WideLux™

Visionhitech has introduced a groundbreaking new Image Signal Processor (ISP) which has led to a new standard in adaptive imaging technologies.

You will find WideLux ISP unmatched in terms of Sensitivity, Wide Dynamic Range Performance, Image Resolution, Low-Light Boost and Anti-Color Rolling.

Standard Features:

- 600 TVL color, 650 TVL B&W Resolution
- 0.0001 lux minimum illumination (Sens-up)
- sWDR; Super Wide Dynamic Range
- 2D/3D Digital Noise reduction
- Electronic Image Stabilizer
- Highlight Eclipse
- Sony Super HAD CCD II

IR Cameras also include:

- Intelligent IR Control
- Extended IR LED Lifetime

www.vhtamericas.com

Toll Free (US): 1 877 218 6599 | Int'l: 1 949 660 1412

VN70IIS Long Range IR Bullet Camera



- IR illumination up to 164'
- 2.8-12mm or 5-50mm Varifocal lens options
- IP67 rated
- IR Cut Filter for True Day/Night



VB30S Mini Varifocal Bullet Camera

- 3.5-16mm Varifocal lens
- IP67 rated environment housing
- External Zoom & Focus adjustment

VDB105S (coming soon)



Outdoor Turret Camera

- 2.8mm-12mm or 5-50mm Varifocal lens
- IR Cut Filter for True Day/Night
- IR illumination up to 164'
- Weather resistant
- External Focus & Zoom Adjustment
- Magnetic Base for easy Install & servicing

VDA110S
VDA110S-IR
**Vandal Resistant
Superdome**



- 2.8-12mm or 7.5-50mm Varifocal lens
- IR Cut Filter for True Day/Night
- IP66 rated, Vandal Resistant Design
- Easy Globe rotation
- 3 axis design with 90 degree tilt
- Available IR LED Version for up to 98' viewing (VDA110S-IR)

VDS120S
VDA111S
Slim Dome



- 3.3mm-12mm Varifocal lens
- IR Cut Filter for True Day/Night
- Flush Mount look without using hole saw
- Program buttons to control OSD
- Tool-free 3 axis design with 90° Tilt
- Indoor version (VDS120S)
- IP66 rated, Vandal Resistant Design (VDA111S)



VD70S
Mini Armor Dome

- Extremely compact 3.1" diameter
- 3.6mm, 4.3mm or 6mm Fixed lens options
- IP66 rated, Vandal Resistant Design
- Attractive semi-gloss finish
- Surface, Flush & Wall mount versions available



VD101S
VD101S-IR
Indoor Dome

- 2.8mm-12mm Varifocal lens
- Program buttons to control OSD
- Tool-free 3 axis design with 90 degree tilt
- Additional Service monitor output
- Available IR LED Version for up to 98' viewing (VD101S-IR)



VDA140S
VDA140S-IR
**Magnetic Vandal
Resistant Dome**

- Unique Magnetic Ball gymbal for precise, tool-free adjustment
- 3.3mm-12mm Varifocal lens
- IR Cut Filter for True Day/Night
- IP66 rated, Dual Flush/Surface mount design
- IR LED Version for up to 66' viewing (VDA140S-IR)
- Available wall mount option

VC56S
VC58S
(coming soon)
CCTV Cameras



- IR Cut Filter for True Day/Night (VC58S)
- CDS Sensor for accurate Day/Night conversion (VC58S)
- Program buttons to control OSD
- Standard C/CS Lens mount
- DC Iris control

Technologies

The WideLux ISP uses a unique Timing Generator driving an advanced DSP, which allows much higher performance than ever before. This provides overall imaging quality which exceeds Double Scan CCD + Premium chipset combos.

Increased Low Light Sensitivity & Boost



Double Scan CCD With Conventional WDR

Single Scan CCD With WideLux WDR

WideLux offers +7dB boost in light sensitivity at all levels. Low Light Boost dramatically improves low-light scenes. Competing solutions depend on multi-frame integration (i.e. Sens-up), which results in motion smear and slow refresh. WideLux enables pixel binning of the sensor raw data, which boosts visibility in extremely dark situations. Detail normally lost during binning is reconstructed by the ISP, making images sharper.

Superior WDR at all contrast ratios



Normal WDR CCD

WideLux Controlled CCD

A normal WDR sensor has difficulty with low-contrast scenes. This non-linear characteristic prevents the conventional WDR solution from resolving shadow detail in many scenarios. WideLux balances the wide dynamic process, resolving detail under a wider range of lighting environments.

Increased Resolution

WideLux employs a special timing generator and accompanying DSP to provide a special mode of CCD operation to allow optimal vertical resolution from the Imager, as well as horizontal.

Color Rolling Suppression



Color Shift

Color Shift

WideLux

Fluorescent lighting can adversely affect color when a camera is in WDR mode. "Color Rolling" can occur as a result of asynchronous operation of the camera and the light. Color shift, changing tint and Shimmering edges are common. WideLux WDR technology uses adaptive timing to sync to fluorescent light. This virtually eliminates the color rolling effect!

Intelligent IR Control



Without

WideLux IR Control

When the objects come close to the IR light source, the objects become over exposed, crushing detail in conventional IR cameras. IR reflection is continuously tracked, and IR output is adjusted for proper exposure within 1 second. VHT has dramatically improved IR control performance with the latest design.

Extended IR LED Protection

Conventional IR assisted cameras operate LED's at maximum brightness, requiring fewer LED's. This design can easily overheat and shorten the lifespan. Visionhitech integrates special LED protection technology to regulate IR LED operation, which greatly extends performance and lifetime.

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