

SID-450/452



High Resolution Day & Night 3-Axis Dome Camera

SID-450/452



- Mountable to any places with 3-axis rotating structure
- Built-in auto iris 3X varifocal lens (f=3~9mm)
- High resolution of 530TV lines, High sensitivity of 0.002Lux
- Day & Night, Unique SSNR, noise reduction technology



Unlimited Flexibility.. Clear View

SID-450/452, New High Resolution Day & Night 3-Axis Dome Camera



The SID-450/452, Samsung's new 3-axis color dome camera provides not only quality performance but also outstanding ease of installation. This camera is especially incredibly flexible to install with its 3-axis camera construction, which makes the camera wall or slope mountable. It features compact size, built-in 3X (f 3.0~9mm) vari-focal lens, a high resolution of 530TV lines, a minimum illumination of 0.002Lux and unique SSNR noise reduction technology. This versatile camera is an excellent choice for indoor applications such as retail, schools, airports, banks and hotels.

All-Time Cleaner, Sharper Image!

High resolution of 530TV lines



Conventional camera



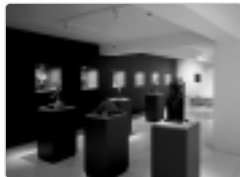
SID-450/452

The SID-450/452 ideally combines advanced Samsung optics, a high performance Super HAD CCD image sensor and WinnerIII, a newly developed professional DSP chip in order to deliver ultra clear image of horizontal resolution of 530TV lines. High signal-to-noise ratio of 50dB also provides strong video signal for enhanced picture quality.

High sensitivity of 0.002Lux, Day & Night mode



Conventional camera



SID-450/452

The SID-450/452 ensures high resolution color images down to an 0.3Lux @ F1.2 in daytime and when light levels fall even to a certain level the camera automatically switches to monochrome mode. Especially the unit boasts outstanding sensitivity of as low as 0.002Lux for excellent low light operations in color using Sens-up function(Max. 128X). The SID-450/452 is an excellent choice for those applications, where there is a severe illumination change.

SSNR, substantial noise reduction

Disk Saving Effect



84.032 Bytes

100%

Conventional camera



25.803 Bytes

30%

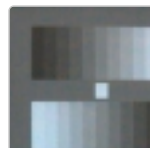
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When lighting levels are low, SSNR dramatically reduces both random and fixed noise

Removing Picture Noise



Conventional camera

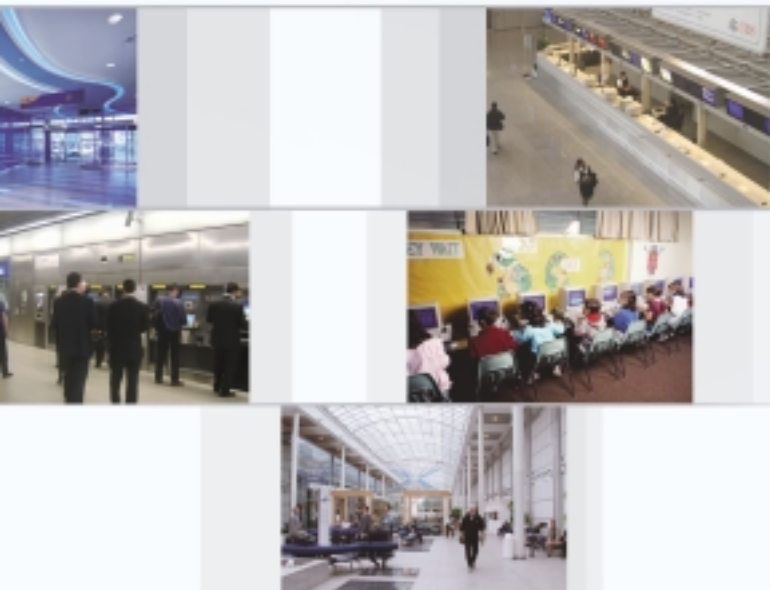


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and at the same time produces a high signal to noise ratio and no ghost effect. An additional benefit of this technology is the reduced file size of recorded images. A DVR's recorded file size is reduced by a massive 70% when using a MPEG format and by 40% when using a JPEG format.

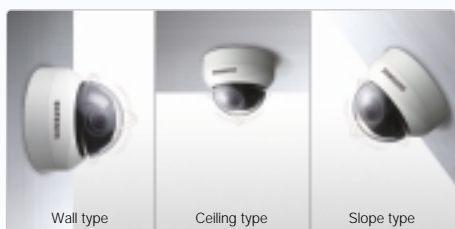
*SSNR : Samsung Super Noise Reduction

From Everywhere!



SID-450 Pan : -175° ~ 175° (350°)
 Tilt : -80° ~ 80° (160°)
 Rotation : -175° ~ 175° (350°)

Install at any locations you want!



Wall mountable with 3-Axis camera mechanism

The SID-450/452 lens can be rotated or shifted horizontally or vertically so you can position the camera to get the pictures you need. As a result, the unit can be easily mounted to walls or sloping surfaces. The viewing angle of the camera is easy to adjust even after installation.



3X Zoom



Built-in auto Iris 3X varifocal lens

The unit is equipped with 3X vari-focal auto iris lens. Images can be enlarged or reduced by control of the vari-focal lens. Optical zooming is convenient for optimizing the image size after setting the instruction of the camera.



Additional service monitoring output

Installation is made simpler by a service video connector that provides the installer with easy access to the assistant video from the camera.



Easy to use OSD menu

The unit supports user-friendly on-screen display capability for improved ease of operation.



| SETUP | |
|-----------|----------|
| → LENS | DC |
| SHUTTER | --- |
| WHITE BAL | ATW |
| BACKLIGHT | OFF |
| AGC | MIDDLE ← |
| SSNR | LOW |
| SENS-UP | OFF |
| SPECIAL | ← |
| EXIT | |

OSD functions



Other Intelligent Features



Privacy Zone Masking



When the SID-450/452 is observing a wide area, the captured images can be “masked” for privacy purposes. Users can easily configure the size and position of the required private zones.



Wide Range Automatic White Balance



SID-450/452’s automatic white balance technology allows true color images without tending to be red or blue, which covers extensive color temperature range of 1,800°K ~ 10,500°K.



Intelligent Motion Detection



This versatile camera is also equipped with the internal ability to detect motion in the scene they are viewing. Users can easily configure the size and position of up to 4 required zones.

Motion Detected



Camera ID Setting

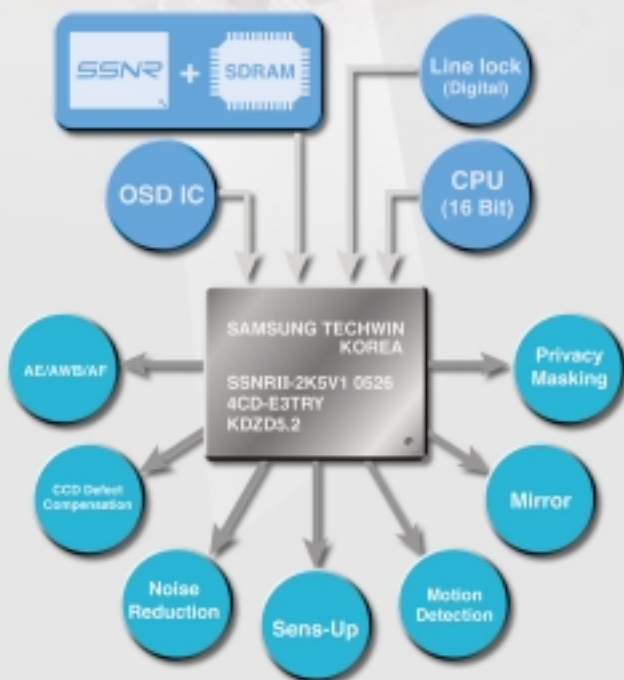
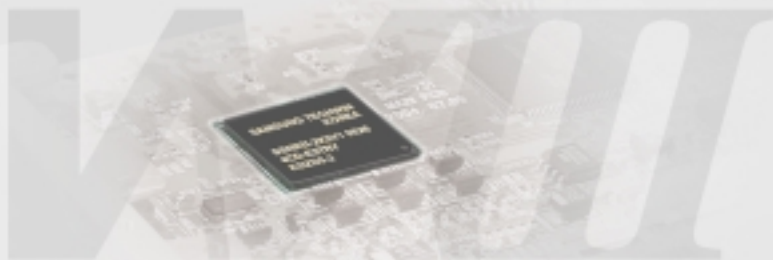
Users can use the camera identification (CAMERA ID) to assign a name to the camera. The camera ID consists of up to 15 alphanumeric characters.



Highly efficient new camera engine

WIII DSP System

At the heart of the SID-450/452 is WINNER^{WIII}, a proprietary powerful new DSP engine that allows ultra high resolution surveillance images and various intelligent functions at the same time. The New **WIII** DSP succeeds in integrating SSNR, Samsung's renowned noise reduction technology with 16-bit high speed CPU, which realizes genuine cost effectiveness of the camera.



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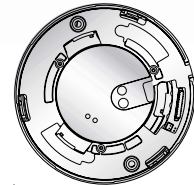
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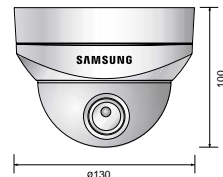
Specifications

| Model | SID-450N | SID-452N | SID-450P | SID-452P | |
|----------------------|---|---------------------------|----------------------------------|---------------------------|--------------|
| Power Source | 12V DC \pm 10% | 24V AC / 12V DC \pm 10% | 12V DC \pm 10% | 24V AC / 12V DC \pm 10% | |
| Power Consumption | Max. 2.5W | Max. 3W | Max. 2.5W | Max. 3W | |
| Total Pixels | 811(H) x 508(V) | | 795(H) x 596(V) | | |
| Effective Pixels | 768(H) x 494(V) | | 752(H) x 582(V) | | |
| Image Pick-up Device | 1/3" Super HAD CCD | | | | |
| Scanning System | 2 : 1 Interlace | | | | |
| Scanning Frequency | 15.734KHz(H) / 59.94Hz(V) | | 15.625KHz(H) / 50.00Hz(V) | | |
| Synchronization | Internal / Line lock | | | | |
| Resolution | 530TV lines | | | | |
| Video Output | 1.0Vp-p / 75 Ω (Video : 0.714Vp-p, Sync : 0.286Vp-p) | | | | |
| S/N (Y signal) | 50dB (AGC off, Weight on) | | | | |
| Min. Illumination | 0.3Lux @ F1.2, 0.002Lux @ F1.2 (Sens-up, 128X) | | | | |
| Day & Night | On / Auto selectable | | | | |
| BLC | Low / Middle / High / Off selectable | | | | |
| Gain Control | Low / Middle / High / Off selectable | | | | |
| SSNR | Low / Middle / High / Off selectable | | | | |
| White Balance | ATW / AWC / Manual selectable (1800°K ~ 10,500°K) | | | | |
| Electronic Shutter | Fixed (1/60 or Flickerless mode) | | Fixed (1/50 or Flickerless mode) | | |
| Sens-up | Auto / Off (2X ~ 128X) | | | | |
| OSD | Built-in | | | | |
| Motion Detection | On / Off (4 Programmable zone, Screen display) | | | | |
| Mirror | On / Off | | | | |
| Privacy Function | On / Off (4 Programmable zone) | | | | |
| Sharpness | On / Off (Level adjustable) | | | | |
| Focal Length | 3.0mm ~ 9.0mm | | | | |
| Max. Aperture Ratio | 1 : 1.2 ~ 2.1 | | | | |
| Viewing Angle | H : 31.8° (Tele) ~ 90.0° (Wide) / V : 23.9° (Tele) ~ 66.2° (Wide) | | | | |
| Monitoring Angle | Pan | -175° ~ 175° | -170° ~ 170° | -175° ~ 175° | -170° ~ 170° |
| | Tilt | -80° ~ 80° | -75° ~ 75° | -80° ~ 80° | -75° ~ 75° |
| | Rotation | -175° ~ 175° | | | |
| Operating | Temperature | -10°C ~ +50°C | | | |
| | Humidity | 30% ~ 80% RH | | | |
| Dimension | 130(ø) x 100(H)mm | 130(ø) x 105(H)mm | 130(ø) x 100(H)mm | 130(ø) x 105(H)mm | |
| Weight | 570g | 670g | 570g | 670g | |

Dimensions



ø130



ø130

SID-450



ø130



ø130

SID-452

www.samsungcctv.com

Design and specifications are subject to change without notice.



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