IR LED Dome Camera with Built-in Vari-Focal Lens

SIR-4250S
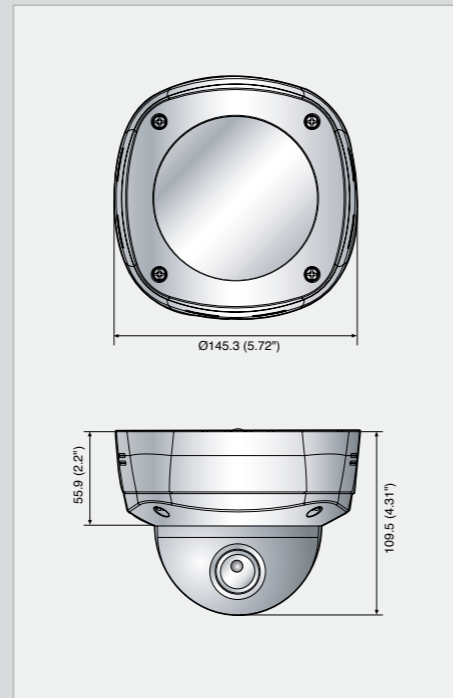
Specifications

Mode		SIR-4250SN	SIR-4250SP
Power Source		12V DC (±10%)	
Power Consumption		Max. 3.6W (LED On)	
Image Pick-up Device		1/3" Super HAD CCD	
Total Pixels		811(H) x 508(V)	795(H) x 596(V)
Effective Pixels		768(H) x 494(V)	752(H) x 582(V)
Scanning System		2 : 1 Interlace	2 : 1 Interlace
		525 Lines / 60 Fields / 30 Frames	625 Lines / 50 Fields / 25 Frames
Synchronization		Internal	
Scanning Frequency		Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution		Color : 520TV lines (Min.) / B/W : 570TV lines (Min.)	
Video Output		1.0Vp-p / 75Ω (Video 0.714Vp-p, Sync 0.286Vp-p)	1.0Vp-p / 75Ω (Video 0.7Vp-p, Sync 0.3Vp-p)
S / N Ratio (Y signal)		50dB (AGC off, Weight on)	
Min. Illumination	LED On	0 Lux@F1.2 (B/W mode, 50IRE)	
	LED Off	0.7Lux@F1.2 (Normal color mode, 50IRE)	
		0.005Lux@F1.2 (Sens-up mode, 50IRE)	
Lens		2.5X Auto iris varifocal lens (F1.2, 3.8 ~ 9.5mm)	
IR LED		10ea (Black)	
IR Distance		16m	
Back Light Compensation		Low / Middle / High / Off	
Day & Night		Color / B/W / Auto (ICR filter change)	
Gain Control		Normal / High / Off	
White Balance		ATW / AWC / Manual (1,800°K ~ 10,500°K)	
Electronic Shutter Speed		Fixed (1/60 / Flickerless)	Fixed (1/50 / Flickerless)
Sens-up (Frame Integration)		On / Off (Selectable limit ~ 128X)	
OSD		Built-in	
SSNR		Low / Middle / High / Off	
Motion Detection		On / Off	
Privacy Function		On / Off selectable (4 Programmable zones)	
Mirror		On / Off	
Sharpness		On / Off selectable (Level adjustable)	
Communication		RS-485 (Pelco-D)	
Iris Control		DC fixed	
Operating Temperature		-10°C ~ +50°C	
Operating Humidity		30% ~ 80% RH	
Dimensions		Ø145.3(W) x 109.5 (H)mm / Ø5.72"(W) x 4.31"(H)	
Weight		985g (2.17 lb)	

Dimensions

Unit : mm (inch)

Ø145.3 (5.72")

55.9 (2.2")   109.5 (4.31")

Design and specifications are subject to change without notice.

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I.D-0805

Eyes that Light up in Total Darkness

High-performance IR LED Dome Camera

SIR-4250S

imagine the ultimate night surveillance

The SIR-4250S is a high-performance IR LED dome camera with various features for advanced functions such as high-resolution video images, ICR Day & Night feature, Vari-Focal Lens and SSNR, unique noise reduction technology, which ensures you have the most reliable 24-hours a day video surveillance providing clean and vivid images for all places.

SSNR
SAMSUNG SUPER NOISE REDUCTION

SAMSUNG TECHWIN   **SAMSUNG**

No More Total Darkness !
OLux Minimum Illumination !
High-performance IR LED Dome Camera
SIR-4250S

Up to 4 Times More Powerful IR LEDs Integrated !
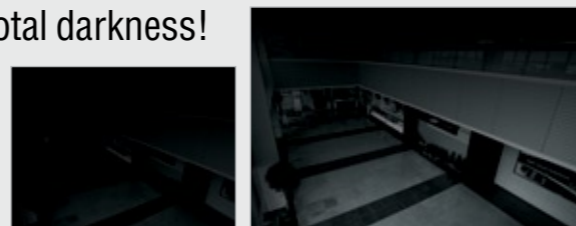### The Perfect 24-hour Security Solution

The SIR-4250S provides high-resolution video images regardless of day or night, and it can detect and distinguish a moving subject in a pitch-dark environment with 0 Lux minimum illumination.

High-performance **IR LEDs** ensures ultimate night viewing
Vari-focal lens provides a more flexible surveillance environment
Day & Night (ICR type) feature offers round-the-clock monitoring
Discrete video security with its **Smoke Dome Cover**

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0 Lux Minimum illumination that monitors in total darkness!

The SIR-4250S can visualize even the small movement of subjects in total darkness without any light. It can be trusted to deliver the most reliable video surveillance at an incredible low light level of 0 Lux with high performance IR LED illuminators.
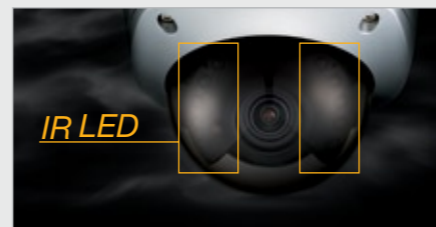
Conventional Camera   SIR-4250S

High Performance IR LEDs ensure 4 times higher brightness

The SIR-4250S incorporates high performance IR LED lamps that provide up to 4 times higher brightness than standard LEDs for clearer images in complete darkness. The illuminators withstand high temperature of up to 100°C and consume less power ensuring a longer life span of cameras.

IR LED

Vari-Focal Lens (3.8 ~ 9.5mm) for a more flexible surveillance

The SIR-4250S is equipped with a vari-Focal Lens of 3.8 ~ 9.5mm that ensures optimum video image and focus setting so that users get the best view at a variety of surveillance environments.

2.5X zoom

Day & Night (ICR type) feature
for around the clock surveillance

The SIR-4250S produces optimum image quality at night by automatically removing the filters with its Day & Night feature (ICR type). It automatically switches either to vivid color images during the day or a high resolution of over 570TV lines in black and white during the night.
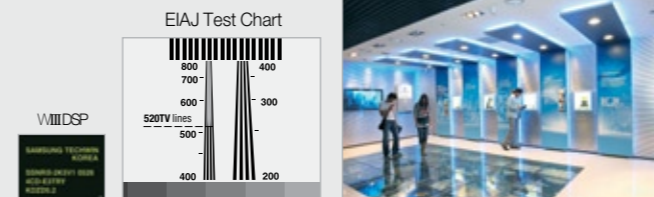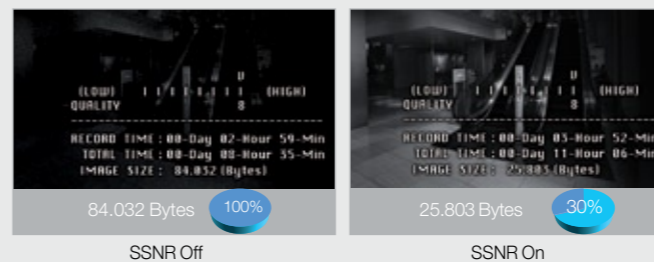
Day   Night

High resolution of 520TV lines for clearer images

The SIR-4250S, with its high-performance CCD image sensor and DSP chip, gives users a high resolution of 520TV lines. The lines and colors of the subject are clear and vivid, making it easier to distinguish the subject being monitored.

EIAJ Test Chart

SSNR provides vivid images with less DVR capacity

The SIR-4250S applies Samsung Techwin's world-renown noise reduction technology SSNR to eliminate any noise or after image associated with night environments, which can give the additional benefit of reducing the video file size to substantially reduce the DVR capacity by up to 70%.

84.032 Bytes 100%   25.803 Bytes 30%
SSNR Off   SSNR On

3-Axis rotating dome mechanism & Additional service monitoring output

The SIR-4250S dome base rotates and shifts horizontally or vertically so users can position the camera to get the exact pictures needed. Installation is made simpler by a service video connector that provides the installer with easy access to the assistant video from the camera.

IR MODE for Clear Subject Recognition

The SIR-4250S provides IR Mode function that prevents short distance saturation when IR LEDs are lighted, resulting in clear recognition of a subject located within 3 meters.
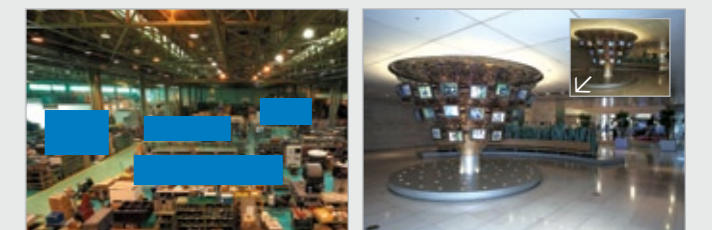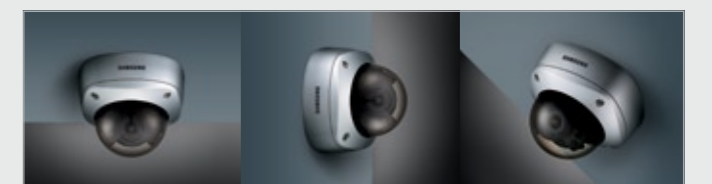
Conventional Camera   SIR-4250S

Privacy Masking & Wide Range White Balance

The SIR-4250S's Privacy Masking feature can easily create a "mask" over up to 4 areas that are sensitive in terms of surveillance. It also automatically covers a color temperature range from 1,800°K to 10,500°K for optimum colors, even when used in poor conditions, for example in interior sodium lighting.

Privacy Masking   White Balance

Ceiling   wall   Slope