imagine Seeing in Total Darkness

A high-performance IR camera, the SIR-4150 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. Equipped with various features for advanced functions such as high-resolution video images, ICR Day & Night feature, Vari-Focal Lens and outdoor camera housing ensures you have the most reliable 24-hours a day video surveillance that provide clean and vivid image for all major areas including : military bases, ammunition dumps, outskirts of factories and small-sized stores.

SSNR
SAMSUNG SUPER NOISE REDUCTION

SAMSUNG TECHWIN

SAMSUNG

Zero Zone for Light…

Eyes that Light up in Pitch Black Conditions

High-performance IR LED Camera, SIR-4150

The SIR-4150 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.

- **Vari-Focal Lens** provides a more flexible surveillance environment
- High-performance **IR LEDs** ensure all-weather day and night surveillance
- **Outdoor camera housing** is designed for easy installation

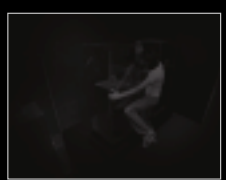
See in Total Darkness...

0 Total Darkness - a thing of the past!
0 Lux Minimum Illumination!
The ultimate night surveillance system, SIR-4150

The SIR-4150 is a high-performance IR LED camera with various features for advanced functions such as high-resolution video images, ICR Day & Night feature, Vari-Focal Lens and outdoor camera housing, which ensures you have the most reliable 24-hours a day video surveillance providing clean and vivid images for all places, including : military bases, ammunition dumps, outskirts of factories and commodity stores.

0 Lux Minimum Illumination that monitors in total darkness!

The SIR-4150 is equipped with high-performance IR LEDs that can detect and visualize even the small movement of subjects in total darkness without any light. It can be trusted to deliver the most reliable video surveillance by providing you with vivid color video images during the day and high resolution black and white images during the night.



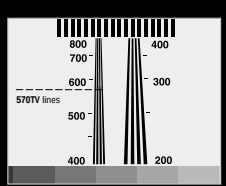
Conventional Camera

SIR-4150

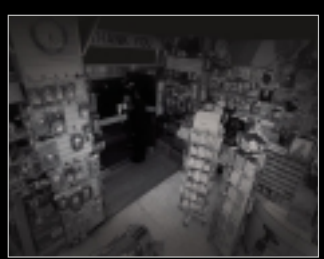
High-resolution of 570TV lines that provides clearer images even at night time

The combination of a Super HAD CCD image sensor with outstanding performance and a WIII DSP system with high-efficiency processing enables the SIR-4150 to give you clear horizontal resolution of over 570TV lines in B/W mode.

WIII DSP chip



EIAJ Test Chart



SIR-4150

Day & Night (ICR type) feature for 24-hour Complete Monitoring

The SIR-4150 provides you with the ICR True Day & Night feature. It automatically removes the IR filters when night falls and switches to B/W mode to provide high image resolution during the night.

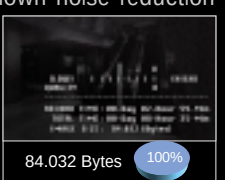
Day

Night

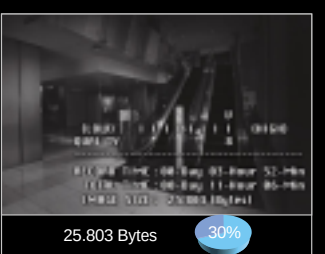
Detect Every Move...

SSNR provides vivid images with less DVR capacity

The SIR-4150 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%.



SSNR Off



SSNR On

Privacy Area Masking feature. Wide Range White Balance feature

The SIR-4150's Privacy Area Masking feature lets you create a "privacy masking" over up to 4 zones of certain areas that are sensitive to be under surveillance, and the Wide Range White Balance feature provides you with optimum image quality even when used in poor surroundings like tunnels or sodium lighting.

Privacy Area Masking

White Balance

Convenient RS-485 remote control support for OSD menu

The SIR-4150 supports RS-485 communication for remotely controlling the OSD menu, which means you can conveniently change the setting for the camera without having to visit the installation location.

SCC-100 (OSD Controller)

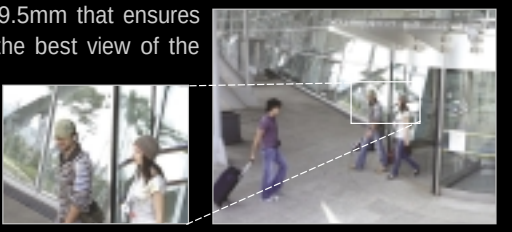
No place to Hide...

The Perfect 24-hour Security Solution

High-performance Camera, SIR-4150

Vari-Focal Lens (f3.8~9.5mm) for a more flexible surveillance

The SIR-4150 is equipped with a Vari-Focal Lens of f3.8~9.5mm that ensures optimum video image and focus setting so that you get the best view of the surveillance environment. It can be utilized in various installation environments.



2.5X Normal

High Performance IR LEDs Ensures 4 times Higher Brightness

The SIR-4150 incorporates high performance IR LED lamps that provides upto 4 times higher brightness than ordinary LEDs allowing for clearer images and more accurate identification in complete darkness. The IR illuminators also withstands high temperature upto 100°C enabling the camera to function with a high degree of reliability and have a long life.

Outstanding durability with IP65's Waterproof and Dustproof function & Sun Shield function

The SIR-4150 provides the IP65 certificate's outstanding Waterproof and Dustproof function that allows it to be used in all climates, and the Sun Shield function increases the high temperature durability to ensure safety of the product under outdoor environmental conditions.

Long Range Visibility of 30m in Complete Darkness

The IR LEDs of the SIR-4150 automatically illuminates viewing area in the extreme darkness allowing the camera a long-range visibility of up to 30 meters.

Day & Night IR LED Camera with Built-in Vari-Focal Lens

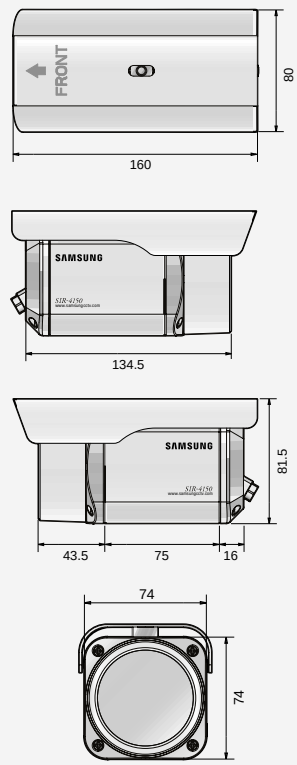
SIR-4150

Specifications

Mode		SIR-4150N	SIR-4150P
Power Source		12V DC (±10%)	
Power Consumption		Max. 5.5W (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 / Line lock selectable	
Scanning Frequency		Horizontal : 15,734KHz / Vertical : 59.94Hz	Horizontal : 15,625KHz / Vertical : 50Hz
Horizontal Resolution		Color : 520TV lines (Min.) / B/W : 570TV lines (Min.)	
Min. Illumination	LED On	0 Lux@F1.2 (B/W mode)	
	LED Off	0.3Lux@F1.2 (Normal color mode)	
		0.002Lux@F1.2 (Sens-up mode)	
Video Output		1.0Vp-p / 75Ω	1.0Vp-p / 75Ω
		(Video 0.714Vp-p, Sync 0.286Vp-p)	(Video 0.7Vp-p, Sync 0.3Vp-p)
Lens		2.5X Auto iris varifocal lens (F1.2, f3.8 ~ 9.5mm)	
IR LED		24ea	
IR Distance		30m	
Water Resistance		IP65	
S / N Ratio (Y signal)		50dB (AGC off, Weight on)	
Day & Night		Color / B/W / Auto selectable (ICR filter change)	
Gain Control		Low / Middle / High / Off selectable	
White Balance		ATW / AWC / Manual selectable (1800°K ~ 10,500°K)	
Electronic Shutter Speed		Auto / Manual selectable (1/60 ~ 1/120,000sec)	Auto / Manual selectable (1/50 ~ 1/120,000sec)
Sens-up		On / Off (Selectable limit ~ 128X)	
OSD		Built-in	
SSNR		Low / Middle / High / Off selectable	
Motion Detection		On / Off selectable (Output via terminal)	
Privacy Function		On / Off selectable (4 Prorammable zones per screen)	
Mirror		On / Off selectable	
Sharpness		On / Off selectable	
Max. Aperture Ratio		1 : 1.2 ~ 2.1	
Focus Control		Auto / Manual / One push selectable	
Iris Control		Auto / Manual selectable	
Communication		RS-485 (Pelco-D)	
Operating Temperature		-10°C ~ +50°C	
Operating Humidity		30% ~ 80% RH	
Dimensions		74(W) x 74(H) x 134.5(D)mm	
Weight		585g	
Option		Remote controller	

Dimensions

Unit : mm



Controller (Option)

SCC-100

eco RoHS compliant

The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

Design and specifications are subject to change without notice.

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