High Performance Thermal Night Vision Camera

STC-14

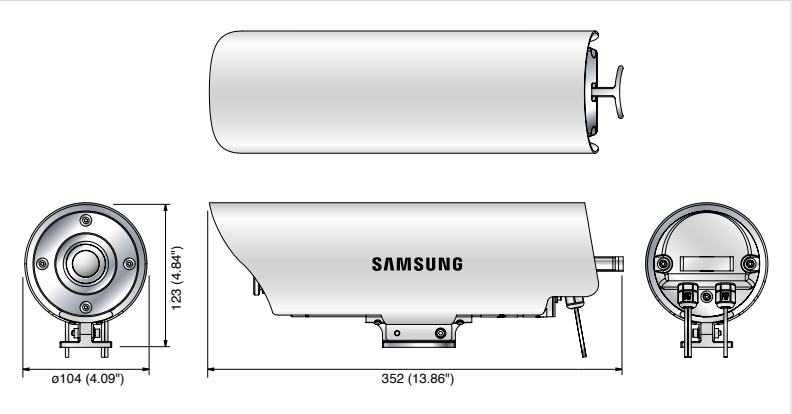**SAMSUNG TECHWIN**

Specifications

	STC-14
Input Voltage	24V AC, 50/60Hz
Power Consumption	Max. 10.5W (22W when heater on)
Sensor Type	Microbolometer
Sensor Effective Pixels	320(H) x 240(V)
Sensor Pitch	23.5μm
Spectral Response	8 ~ 14μm
Minimum Discernable Temperature	0.08°
Frame Rate	30fps
Video Output	VBS : 1.0VP-P,75Ω composite
Synchronization	Internal
Lens	F1.4, f=14mm
Focal Length (Focal Range / Adjustment)	0.5m ~ ∞ (Upon factory release : 3m ~ ∞ Pan focus adjusted)
Viewing Angle (HxV)	30.1° x 22.8°
Digital Zoom	Built-in (2 ~ 4X)
OSD	Built-in (Currently supported languages : English, Japanese)
Noise Reduction	3D-DNR (4 levels : Low / Medium / High / Off)
B/W Inversion	BW / WB (256 levels)
Brightness / Contrast	11 levels / (Auto, Manual : 10 levels)
Object Temperature	Auto / Manual (2 levels)
	Low (-40°C ~ 150°C), High (0°C ~ 540°C)
Sharpness	6 levels : Off ~ 5
Communication Specification	RS-485
Protocol	Samsung Techwin & Pelco-D
Dust/Waterproof Standard	IP66
Operating Temperature	-30°C ~ +55°C (Auto heater)
Storage Temperature	-40°C ~ +70°C
Dimension (WxHxD)	ø104 x 123 x 352mm (4.09" x 4.84" x 13.86")
Weight	Approx. 2.2Kg (4.85 lb) (Including cables)
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)

Dimensions

Unit : mm (inch)

ø104 (4.09")   123 (4.84")   352 (13.86")

Design and specifications are subject to change without notice.

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SAMSUNG TECHWIN

Thermal Monitoring

Best Night Monitoring Solution!

STC-14

High Performance Thermal Night Vision Camera

- Outstanding 360m Detection Range with No Lighting
- Intricate Imaging with High-Powered Infrared Sensor
- 0.08°C Excellent Temperature Resolving Power
- IP66 Approved Dust/Waterproof, Customizable OSD
- Light Weight and Effective Cost

Zero Light Detection
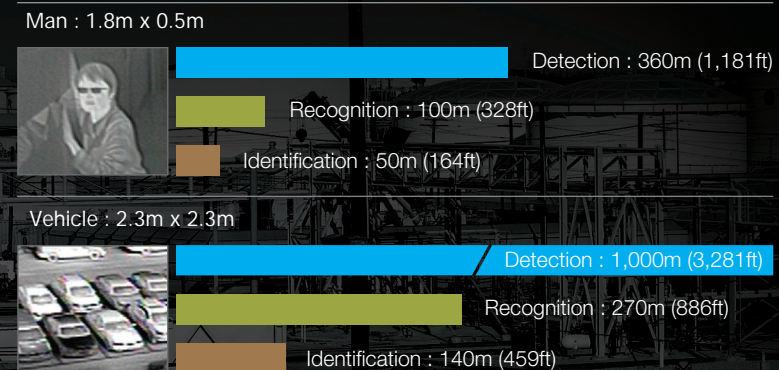# Detect Objects in Pitch Darkness!

Thermal Night Vision Camera

The Thermal Night Vision Camera is an advanced camera that detects differences in the infrared energy of objects and the background, converts them into electric signals, and produces digital images.

Signal Processor

Infrared Detector

Optics

Infrared Energy

Scene
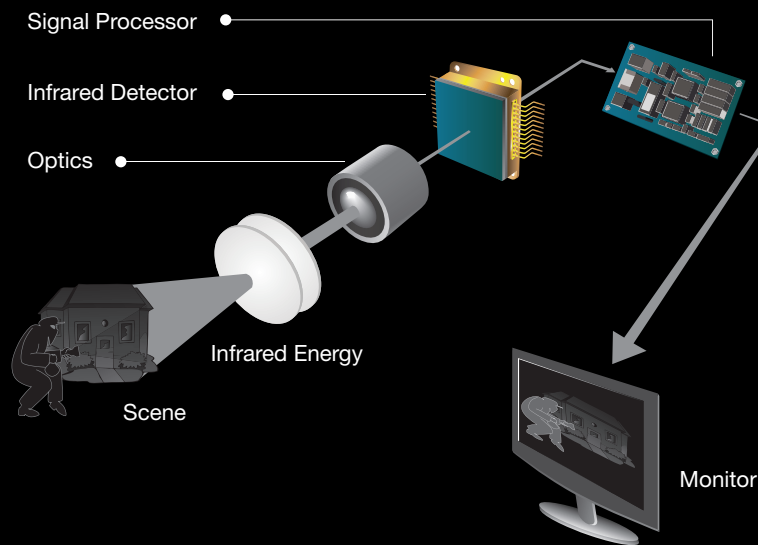
Monitor

360m Long-Ranged Detection

360m

With detection capacity unparalleled by cameras in the same class, the STC-14 can capture objects at a maximum range of 360m.

Man : 1.8m x 0.5m

Detection : 360m (1,181ft)

Recognition : 100m (328ft)

Identification : 50m (164ft)

Vehicle : 2.3m x 2.3m

Detection : 1,000m (3,281ft)

Recognition : 270m (886ft)

Identification : 140m (459ft)

Never Miss A Move...

24/7 Powerful Monitoring STC-14
High Performance Thermal Night Vision Camera

The STC-14 is a cost-effective and stable night vision camera equipped with a microbolometer thermal imaging sensor. Embedded with advanced infrared imaging technology, it is suitable for short- and medium-range monitoring purposes and offers astoundingly sharp and finely detailed images with its high performance sensor and wide field of view. It is light, yet rugged, making it an ideal solution for 24/7 powerful monitoring.
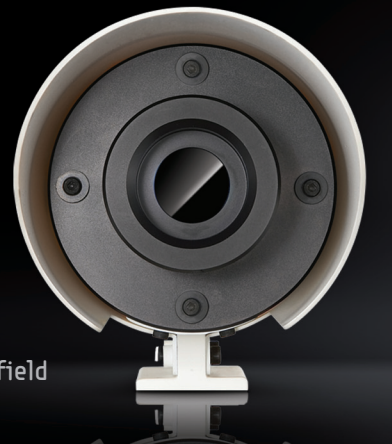
High Performance Sensor for Intricate Imaging

Sensor

Equipped with a high performance infrared sensor with an IFOV (Instantaneous Field-of-View) of 1.68mrad, the STC-14 is capable of capturing a greater level of detail than other cameras in the same class.
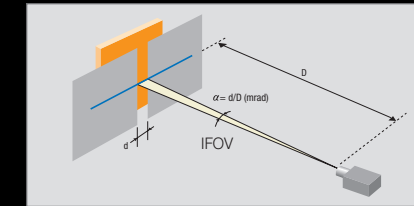
IFOV

* IFOV (Instantaneous Field-of-View)
A measurement of a sensor's intrinsic field of view corresponding to the amount of light that a sensor can detect at an instant; the smaller it is, the fuller an image looks.

Light Weight and Cost-Effective Camera

Light Weight

Weighing a mere 2Kg, the STC-14 is much lighter than conventional thermal night vision cameras, allowing it to be installed in a wider range of locations. The cost-effectiveness and versatility of the STC-14 lets you create an advanced thermal security monitoring system on budget.

Excellent Object Detection with High Temperature Resolving Power

Infrared

With a minimum discernable temperature of 0.08°C, the STC-14 detects objects and forms images clearly.
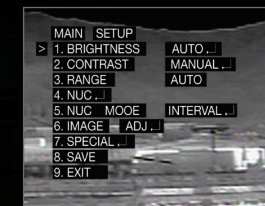
Conventional Camera

STC-14

IP66 Approved Dust/Waterproof Camera

IP66

The STC-14 features an integrated housing that is tested to the IP66 dust and waterproof standard. This all-weather camera performs stable under all harsh weather conditions.

On Screen Display & Customizable Options

OSD

This camera supports an On Screen Display menu, and allows people to customize the contrast, brightness, and sharpness of images.

MAIN SETUP
1. BRIGHTNESS   AUTO
2. CONTRAST   MANUAL
3. RANGE   AUTO
4. NUC
5. NUC MODE   INTERVAL
6. IMAGE ADJ
7. SPECIAL
8. SAVE
9. EXIT

Removable Lens

To aid the longevity of the STC-14 camera it is possible to swap the lens if it becomes damaged, without the need to replace the whole camera, thus making it a more cost effective solution.

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