



SAMSUNG

# The Answer for Perfect 24/7 All Weather Monitoring

## Thermal Positioning System



## Thermal Positioning System SCU-9080



The SCU-9080 integrates a high technology thermal imaging camera with a precision, high-speed positioning system. It delivers thermal video at 320 x 240 resolution with a pixel size of 23.5µm. Unlike traditional cameras, the SCU-9080 does not rely on light to capture images; instead, it displays heat variances allowing it to effectively detect people and objects up to 1.2Km away, even in extreme conditions such as complete darkness, fog, smoke and snow. This makes it ideal for a range of security, safety and industrial applications such as perimeter protection, wide area surveillance and for checking "hot-spots" in machinery, equipment and buildings. Critically, once a user sets a certain temperature level the SCU-9080 alarms when it detects that temperature level has been breached. In addition to the imaging capability, the SCU-9080 offers continuous 360° rotation and extended -85° to 40° tilt operation with full weatherproof protection to IP 66.

- Outstanding 1.2Km detection without lighting
- Min. discernable temperature of 0.08°C
- Built-in 50mm, 0.47 mrad. Color Pattern
- IP66, Pelco-C (Coaxitron), RS-485/422, 24V AC

# Weatherproof Thermal Positioning System

# SCU-9080



## Specifications

<b>Video</b>	
Imaging Device	320(H) x 240(H) Uncooled VOX Microbolometer
Sensor Pitch	23.5µm
Measured Wavelength Range	8 ~ 14µm, LWIR
Video Ratio (Sensor)	30fps
Thermal Sensitivity (NETD)	80mK @ F1.0
Video Output	CVBS : 1.0 Vp-p / 75Ω composite
<b>Lens Type</b>	
Focal Length (Zoom Ratio)	50mm (Fixed)
Max. Aperture Ratio	1:1.4
Angular Field of View (H×V)	8.6° x 6.5°
Min. Object Distance	27M ~ ∞, Pan focus
IFOV (Instantaneous Field of View)	0.47mrad
<b>Pan / Tilt</b>	
Pan Range	360° Endless
Pan Speed	Presets : 0.1°~120°/sec, Manual : 0.1°/sec~36°/sec (Turbo : 120°/sec)
Tilt Range	-85° ~ 40°
Tilt Speed	Presets : 0.1°~36°/sec, Manual : 0.1°/sec ~ 36°/sec
Presets	255
Presets Accuracy	±0.1°
<b>Operational</b>	
On Screen Display	English, French, German, Spanish, Italian, Portuguese, Russian
NUC (Non-Uniformity Correction)	Auto / Manual
Temperature Range	-40°C ~ +500°C
Brightness	32 Step Adjustable
Sharpness	32 Step Adjustable
Contrast Enhancement	32 Step Adjustable
Digital Noise Reduction	2D/3D Adaptive DNR (4 Step : Off / Low / Middle / High)
Digital Zoom	Off/On, 1.1x~4x Selectable
ISO Therm	Isolated Temperature Display
Pseudo Color	B/W, W/B, Color1, Color2 Selectable
Event Alarm	Thermal Temperature Event
Alarm Out	3 In 2 Out 1 Aux
Communication	Coaxial Control (SPC-300 Compatible) & RS-485/422
Protocol	Coax : Pelco-C (Coaxitron), RS-485 : Samsung-T, Samsung-E, Pelco-D, Pelco-P, Panasonic, Vicon, Honeywell, AD, GE, Bosch
<b>Environmental</b>	
Operating Temperature / Humidity	
Ingress Protection	IP66
<b>Electrical</b>	
Input Voltage / Current	
Power Consumption	Max. 40W / Max. 144W (Heater & Fan)
<b>Mechanical</b>	
Color / Material	
Dimension (WxHxD)	217.3(W) x 587.5(H) x 500(D)mm
Weight	17.5Kg

## Accessories

### Wall Mount



SBU-500WM

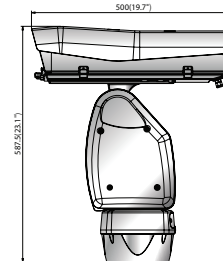
### Pole Mount



SBU-220PM

## Dimensions

Unit : mm (inch)



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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