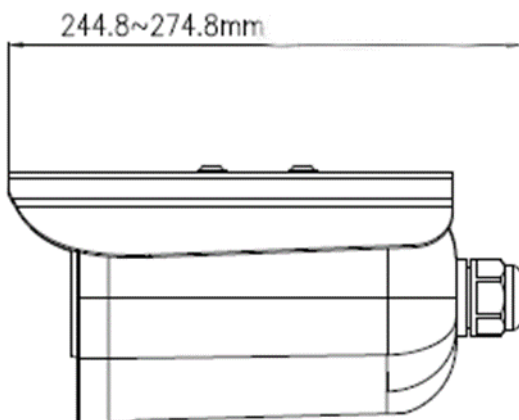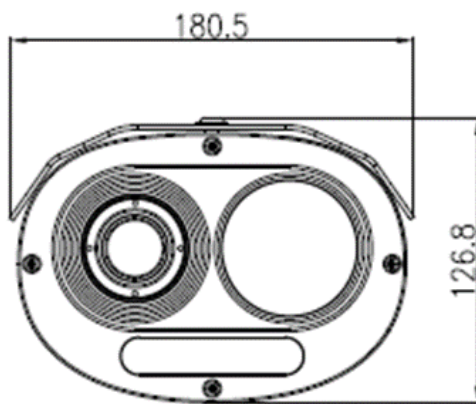# CK-400

Bi-spectrum Network Bullet Camera

SATIR are pleased to announce the release of the CK-400, a bi-spectrum network bullet camera. Featuring both thermal and visual cameras for a wide range of applications. Security and process control to name a few applications

The thermal resolution of 400x300 offers increase image resolution at an affordable price and the addition of optional thermal lens makes it ideal for distance applications where the plant equipment and or area to be monitored is different from the installation site.

The software is the same but different apps are available for different applications, such as trending for temperature monitoring to perimeters detection for security.

180.5

126.8

244.8~274.8mm

Key Features

- 400×300 IR resolution

- Thermal: 8/15/25/35/50 mm manual lens, optical: 5~50mm motorized lens

- Detect Humans, Vehicles and Fire

- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, enter area, leave area

- Temperature monitoring and exception alarm

- 3 temperature measurement rule types (spot, line, area)

- Image processing technology: DVE, 3D DNR, WDR

- IR distance up to 100m

- IP66

CK-400 Specifications

Thermal Module

Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Resolution	Sensor is 400×300, Image can be scaled up to 704×576				
Pixel Pitch	17um				
Spectral Range	8~14um				
Thermal Sensitivity (NETD)	≤ 40mK				
Lens Type	Fixed, F1.0				
Focus Control	Fixed focus				
Focal Length	8 mm	15 mm	25 mm	35 mm	50 mm
F No.	F1.0	F1.0	F1.0	F1.0	F1.0
Angle of View	H: 46°, V:35.3°	H:25.5°, V:19.2°	H:15.4°,V:11.6°	H: 11°, V:9°	H: 7.7°, V:5.8°
Detection Distance (Fire: 1×1m)	235 m	441 m	735 m	1029 m	1471 m
Detection Distance (Humans: 1.8×0.5m)	235 m	441 m	735 m	1029 m	1471 m
Detection Distance (Vehicles: 4×1.5m)	722 m	1353 m	2255 m	3137 m	4510 m
Recognition Distance (Human: 1.8×0.5m)	59 m	110 m	184 m	257 m	368 m
Recognition Distance (Vehicle: 4×1.5m)	180 m	338 m	564 m	789 m	1127 m

Optical Module

Image Sensor	1/2.8" CMOS
Resolution	1920(H)×1080(V)
Shutter Speed	1/5 ~ 1/20,000s
Wide Dynamic Range	True WDR 120dB
Min. Illumination	Color: 0.1Lux @(F1.2, AGC ON) B/W: 0.01Lux @(F1.2, AGC ON)
S/N Ratio	More than 60dB
Focal Length	5~50mm
Angle of View	H: 50.85°~7.67°, V: 27.78°~4.36°

Illuminator

IR Distance	Up to 100m (328.0 ft)

Video and Audio

Main Stream	Optical: 1920×1080, 1280×720 @25/30fps Thermal: D1 (704×576) @25/30fps
Sub Stream	Optical: D1, VGA, 640×360, CIF, QVGA @25/30fps Thermal: CIF @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Main Stream: Optical: 100Kbps~12Mbps, Thermal: 100Kbps~6Mbps Sub Stream: Optical: 100Kbps~6Mbps, Thermal: 10Kbps~1.5Mbps
Region of Interest	Off / On (8 Zone, Rectangle)
Smart Encode	Support
Audio Compression	G.711: 8kbps, RAW_PCM: 16kbps

Please be aware specifications can vary from time to time

CK-400 Specifications

Image	
Image Setting	Brightness, Sharpness, Contrast, Saturation
Mirror	Support
Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes (Thermal)
DVE Image Enhance	Support (Thermal)
Noise Reduction	2D/3D DNR
Privacy Masking	Support
Motion Detection	Support
Smart Function	
Smart Function	Temperature measurement, human detection and vehicle detection
Advanced Intelligence Analysis	Smoker detection, Smoke and Flame detection, fire point detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area (these 7 function support accurate detection of people/vehicles) , People counting
Temperature Measurement	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2℃ / ±2%
Response Time	≤ 30ms
Temperature Range	-20°C ~ 150°C (up to 900°C, optional)
Network	
Protocols	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP ,802.1x
Interoperability	ONVIF
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish. Russian, French, Czech, Hungarian
Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch input, 1ch output
Alarm Interface	2ch input, 2ch output
RS485	Support
Reset Button	Support
General	**General**
Power Supply	DC12V±10% /POE+ (IEEE 802.3at)
Power Consumption	Without heating: Max 10W, Including heating: Max 24W
Working Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Conditions	0 ~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	(244.8~274.8)×180.5×126.8 mm (9.64~10.82 × 7.11× 4.99 inch)
Net Weight	2.5 Kg (5.51 lb)

Please be aware specifications can vary from time to time