![CHeKT logo]
CHeKT
Professional Visual Security

CKIPAi5MP-DL-TH-FR
For Video Alarm Applications

CHeKT Dual Thermal AI IP Camera

ONVIF® | S

Dual Thermal AI IP Camera

- Visible: 5 MP, Thermal: 640X480 (Upscaling)
- H.265, H.264 and MJPEG Compression
- Embedded CHeKT AI Video Technology
- Deep Learning - Object Detection Classification
- SMART Bitrate Control and Region of Interest
- AI Object Detection: Visible or Thermal Lens

Product Features

AI Analytics Engine

CHeKT's advanced tracking algorithm with rich library of detection behaviors

Central Station Integration

AI video alarm signal transmission when using the OPTEX Video Bridge

Deep Learning Object

Deep learning based object identification (as Person, Cyclist, Car, Van, Truck, Motorcycle, Bicycle, Bag) removes false object detection

Detection Zones/Rules

40 rules & zones (Multi-segment Polygons and Lines) as standard

Detection Behavior

Enter, Exit, Appear, Direction, Dwell filter, Tailgating, Area Line Detection

Deep Learning People

Deep learning based on people identification and tracking

Note : The Deep Learning Tracker(DLOT/DLPT) works with the visible camera during the daytime and the Object Tracker works with the thermal camera at night. These engines are switched automatically day(visible with Deep Learning Tracker) and night(thermal with Object Tracker) by light sensors.

Specifications

CAMERA

Model	CKIPAi5MP-DL-TH-FR	
	Visible	**Thermal**
Image Sensor	SONY STARVIS EXMOR 1/2.8" 5M CMOS	Uncooled Vanadium Oxide Microbolometer
Pixel Size	-	12 μm
Spectral Response	-	7.8~14 μm
NETD	-	65mK(Typical), Less than 100mK(max) @ 25°C
AGC Control	Auto	-
IRIS Type	Auto Exposure	-
Minimum Illumination	Color: 0.16 Lux, B/W : 0 Lux (IR LED On)	-
Lens	4.0 mm(F2.0)	4.0 mm(F1.0)
Angle of View	Horizontal: Approx. 82.3°, Vertical: Approx. 58.8°	Horizontal: Approx. 56°, Vertical: Approx. 42°
Shutter Time	Auto / Manual: 1/30 ~ 1/32,000, Anti-Flicker, Slow Shutter (1/2,1/3,1/5,1/6,1/7.5,1/10)	-
Day & Night	True Day & Night (Removable IR -cut filter)	-
Wide Dynamic Range	True WDR, 120 dB or above	-
Detectable Temperature Range	-	-40°C to 330°C(-40°F to 626°F)
Temperature Accuracy	-	The greater of ±5°C or 5% between 5°C to 140°C scene temperatures . Typical performance of ±10% between 140°C to 330°C scene temperatures .
		Specified at nominal 25°C ambient operating temperature and nominal measurement distance of 12 inches from blackbody. Temperature reported is Center Spot temperature, which is an average of the center 36 pixels.

IR ILLUMINATOR

IR LED	High Power IR LED x 2	-
IR Working Distance	30m	-

VIDEO

Video Compression	H.265, H.264, MJPEG	
Profile	H.264 : MP / HP H.265 : MP	
Multiple Profile Streaming Performance	2592x1944/30 + 720p30 with H.264,H265 + MJPEG	640x480/9 + 320x240/9 with H.264,H265 + MJPEG
Max Resolution	2592 x 1944 /30fps	640 x 480(Upscaling)/9fps
Video Bit Rate	100Kbps ~ 25Mbps, Multi-rate for Preview and Recording	
Bitrate Control	Multi Streaming CBR/VBR(Controllable frame rate and Bandwidth)	
Noise Reduction	3D-DNR	-
Privacy Mask	16 programmable zones	
Special Features	SMART Bitrate Control , Region of Interest	
Other Image Processing	Configurable Exposure, White Balance, Sharpness	-
Image Orientation	Flip / Mirror / Corridor Mode	
Analogue Output	1 (Installation only) , CVBS 1.0V p-p (75Ω), 4:3 aspect ratio (Camera selectable)	

AUDIO

Audio Streaming	Two way
Audio Compression	G.711 u-law 8KHz, AAC-LC 48Kbps at 8K Hz
Audio input	Supply voltage : 3VDC(3mA), Input impedance : 3K Ohm
Audio output	Line Out, MAX. Output Level : 1Vrms

EVENT

Event Trigger	Motion Alarm, DI, Temperature Alarm(Above, Below, Slope Rate) , VCA(AI)
Pre-Post Recording	Pre: 1~5 sec Post: 1~240 sec
Event Notification	FTP, E-mail, Alarm-out, SD card

NETWORK

Ethernet Standard	10/100 Base-T
IP	IPv4
Protocol	TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2/v3(MIB-2), ONVIF
Security	HTTPS(SSL), IP filtering, 802.1x, Digest Authentication
Plug In	ONVIF Profile S, CGI API

GENERAL

Material	Aluminum Die-casting, White
External I/O Terminals	1 x Alarm In / 1 x Alarm Out
Language on webpage	English
Power Source	DC12V, PoE (IEEE 802.3af)
Power Consumption	DC12V Max 23.3W, PoE Max 11.5W
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing) [PoE] -30°C ~ 50°C (-22°F ~ 122°F) [DC12V] -40°C ~ 50°C (-40°F ~ 122°F)
Approvals	FCC, CE, UKCA, IP67, IK09
NDAA	Compliant
Weight	1.08 kg
Dimensions	106mm(W) x 96.7mm(H) x 216mm(D)

EDGE STORAGE

Storage	1 x microSD / microSDHC / microSDXC (card not included)

Thermal Detection Range
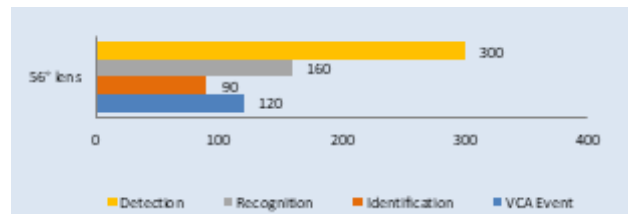*The detection range is of maximum values.

(Unit: meter)

Thermal				
Object	**Detection**	**Recognition**	**Identification**	**VCA Event**
Person	120	85	25	Max. 60
Vehicle	300	160	90	Max. 120

Specifications & designs are subject to change without prior notice.

Person
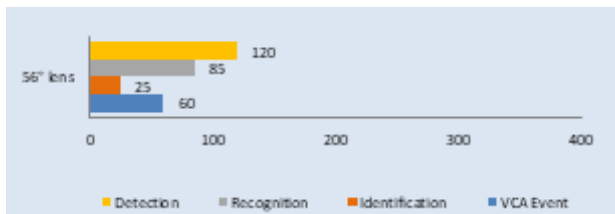
Vehicle

Dimensions (Unit: mm)
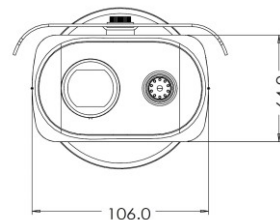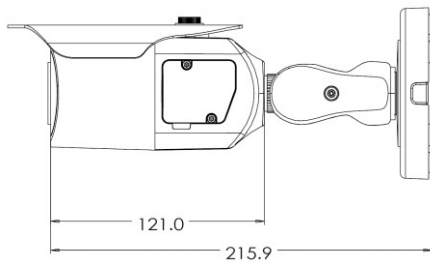
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