

## DUAL LENS TEMPERATURE DETECTING THERMAL CAMERA WITH ALARM

## VP-NC91052B-ZTHS9 Dual Imaging Thermal Camera



### FEATURES

AI based body temperature measurement system for epidemic fever detection

High Definition 2MP (1920 x 1080) resolution

Thermal: 8mm Fixed lens, Visible: 2.7-12mm motorized lens

Efficient preliminary screening for detecting elevated body temperature

Dual Imaging Lens with high accuracy of  $\pm 0.2^{\circ}\text{C}$

Non-contact measurement to reduce risk of catching infection through physical contact

Supports face detection to reduce false alarms & multiple targets screening

Real time monitoring through AI video management software



Defog



120dB  
WDR



TCP/IP



IP66  
Weather Proof

## TECHNICAL SPECIFICATIONS

# VP-NC91052B-ZTHS9

Thermal Camera	Detector Type	Uncooled IRFPA Microbolometer
	Effective Pixels	400(H) x300(V)
	Pixel Size	17 μm
	Thermal Sensitivity (NETD)	40mK @F1.0, 300K
	Spectral Range	8~14um
	Image Setting	Polarity LUT/ DVE/ Mirror/ FCC/ /3D DNR Brightness/Contrast/ ROI
	Color Palettes	Black-Heat /White-Heat/Rainbow/Iron-Red up to 17 modes
	Focus Control	Manual Focus
	Focal Length	8mm
	Human Temp. Detection	4-5 Mtrs
	Angle of View	H: 46°, V: 35°
Visible Camera	Image Sensor	1/1.9" Sony CMOS Progressive Scan Sensor
	Effective Resolution	1920(H)x1080(V)
	Signal System	PAL/NTSC
	Shutter Speed	1/50 ~ 1/64,000s
	Wide Dynamic Range	True WDR 120dB
	Min. Illumination	Color: 0.01Lux @(F1.2, AGC ON) B/W: 0.001Lux @(F1.2, AGC ON)
	S/N Ratio	55dB
	Focal Length	2.7 ~ 12mm motorized lens
	Max Aperture	F1.6~ F2.9
	Angle of View	105°~ 32°
	Optical Zoom	Motorized Zoom
	Focus Control	Motorized Optical Zoom Adjustment
	Close Focus Distance	0.2m
	Video and Audio	Compression
Frame Rate		Main Stream: Thermal: D1 @25/30fps Visible: 1920x1080/1280x720 @25/30fps Sub Stream: : Thermal: CIF @25/30fps Visible: D1/VGA/640x360/CIF/QCIF/QVGA@25/30fps
Bit Rate Control		CBR/VBR
Bit Rate		Thermal: 100Kbps~6Mbps Visible: Main stream: 500Kbps~10Mbps; Sub stream: 100Kbps~6Kbps
Audio Compression		G.711, AMR, RAW_PCM (Optional)
Features	Region of Interest	8 Zones supported
	Defog	Supported
	Digital Zoom	16x
	Mirror	Supported
	Motion Detection	Supported
	Privacy Masking	4 Areas supported
	DVE Image Enhance	Supported
	Alarm	Motion detection, Disk alarm, I/O alarm, Temperature alarm,
Temperature Detection	Detection Mode	Body temperature monitoring
	Detection Preset	Max 16 Presets
	Temperature Alarm	Over temperature alarm, Temperature difference alarm
	Accuracy	±0.2°C (Emission rate, distance, ambient temperature, etc.)
	Response Time	≤30ms
	Theory of Temperature Measurement Range	-20 °C ~ 60 °C (-4°F ~ 140°F)
	Temperature display mode	Temperature target >3°C, Display absolute temperature value; Temperature target ≤ 3°C, Display relative temperature value (temperature difference DEV = highest value - average)

## TECHNICAL SPECIFICATIONS

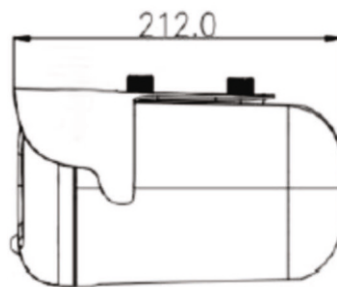
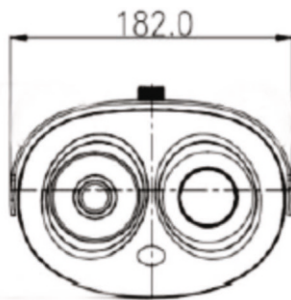
# VP-NC91052B-ZTHS9

Network	Ethernet	RJ-45 (10/100Base-T)
	Protocols	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, SIP ,802.1x
	System compatibility	ONVIF
	Streaming Method	Unicast
	User Access	Max 10 users
	Network Storage	Support micro SD/SDHC/SDXC card (128G), local storage and NAS
	Web Viewer	<le11, Firefox, Chrome
Smart Analytics	Smart Features	Smart Body Detection, Perimeter ,Single Virtual Fences ,Double Virtual Fences ,Object Left ,Object Removed
Interface	Audio Interface	1ch Audio In,1ch Audio Out
	Alarm	2ch Alarm In,2ch Alarm Out
	RS485	Supported
	Reset Button	Support (Built-in)
General	Power Requirement	12 VDC $\pm$ 10% , PoE (802.3af)
	Power Consumption	Max 10W
	Operating Temperature	0 $^{\circ}$ C ~ 35 $^{\circ}$ C
	Operating Humidity	95% or less (non-condensation)
	Enclosure	IP 66 Weather proof outdoor enclosure
	Color	White & Black
	Dimensions	212x182mm
Weight	2kg	
Certifications	Certifications	UL, CE, FCC, RoHS

\*Exact products and specifications shown may vary by geographic region and are subject to change without notice. Product image, weights and measurements are approximate and may vary.

## DIMENSIONS

Unit: mm



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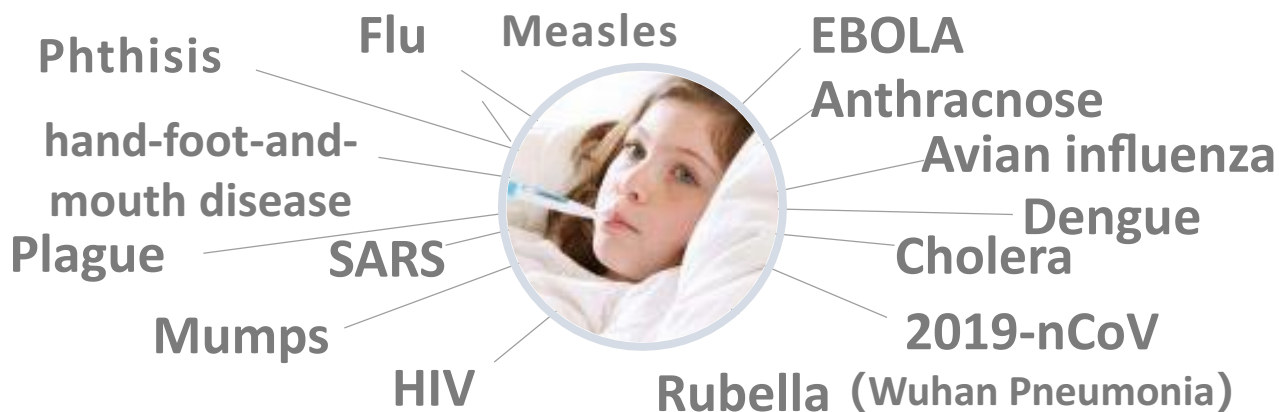
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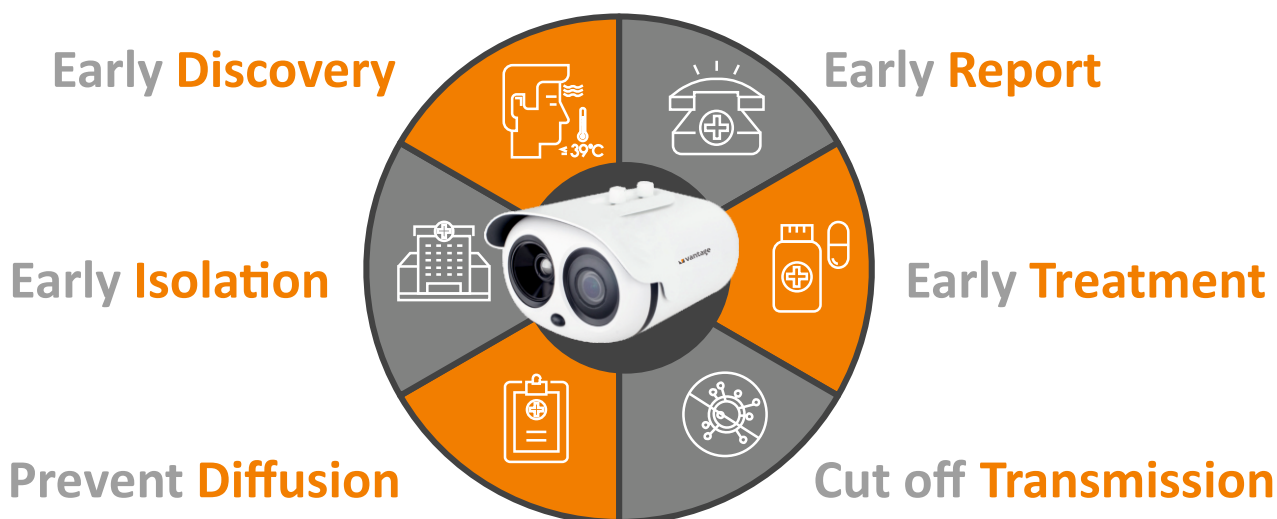


# Fever is the typical symptom of pneumonic 2019-nCoV infection.

According to the statistics of clinical manifestations, 28 statutory infectious diseases out of 39, have fever symptoms in the early stage.



Body temperature measurement is an important means of epidemic prevention & control



# State of the Art AI + Thermal Technology



## Accurate face tracking Present results in real time

Face recognition algorithm is used to accurately locate the temperature to the target



## Bi-spectrum, dual channel All-weather real-time monitoring

Visible light can capture human face and thermal imaging can monitor body temperature



## Multi-objective fast non temperature measurement

Complete 16 target temperature measurements within 30 meters milliseconds at a distance of 3-5



## Temperature accuracy $\leq 0.2^{\circ}\text{C}$

Modified  $\leq 0.2^{\circ}\text{C}$  (emissivity, distance, ambient temperature, etc.)

## Portable Black Box (Optional) Temperature Accuracy Amplifier



### Specification

<b>General</b>	
Temperature Range	35.0°C (Ambient temp.+5.0°C to 35.0°C)
Emissive Area	70mm×70mm
Temperature Resolution	0.1°C
Accuracy	$\pm 0.2^{\circ}\text{C}$ (@40°C)
Stability	$\pm (0.1\sim 0.2)^{\circ}\text{C}/30\text{min}$
Emissivity	0.97±0.02
Power supply	220VAC 50Hz 50W
Operating Ambient Temp	0°C~35°C / $\leq 80\%RH$
Dimension	110mm(W)×120mm(H)×180mm(D)
Weight	1.8kg
Communication Interface	Rs485 (optional)

# Application



# Installation Scenario

