ZN-TH110xVE-H SERIES

H.264 Thermal Imaging Camera with Embedded Analytics

320x240 pixels

GANZ

- 17

 M Next Generation Microbolometer Technology
- 42, 18, 12, 9 or 6 Degrees Field of View
- Video Frame Rate: 9Hz or 30Hz
- Video Compression: H.264, MPEG-4, and MJPEG
- Embedded Intelligent Video Analytics
- Burnt-in Text, Video Motion Detection Support
- Two-way Audio
- USB 2.0 Support (Local Storage, Wireless LAN)
- microSD Memory Slot Support
- Comprehensive SDK Support



*Supplied with Camera & housing as package.

The ZN-TH110xVE Series is one of the world's first thermal imaging IP camera combining state of the art thermal imaging technology with state of the art intelligent video analytics. Including CBC's reliable video analytics as a standard feature, the ZN-TH110xVE Series is a highly advanced thermal imaging IP camera, capable of long distance detection customers have come to expect of thermal imaging products, but also provides increased analytics reliability for applications such as object tracking, people counting, car counting, loitering and much more. The ZN-TH110xVE Series thermal imaging products are ideally suited for customers who seek to experience ever more accurate video analytics performance combined with the high detection capabilities characteristic of thermal imaging to the high detection capabilities characteristic of

thermal imaging technology.

Affordability

With its reliable surveillance performance and affordability, the ZN-TH110xVE Series provies new opportunities for applications such as general purpose video security, people counting and footfallmetric s in retail environments, traffic and congestion monitoring, and much more.

Advanced Thermal Imaging Technology

Using state-of-the art 17 μ m microbolometer sensors and specially designed thermal imaging lenses, the ZN-TH110xVE Series is one of the most advanced camera systems available in the marketplace today. It works in the 8-14 μ m wavelengths detecting heat radiation that all objects emit.

Wide Field of View and High Resolution

The ZN-TH110xVE Series offers wide angle lens options with up to 42 degrees field of view to optimize its coverage efficiency. The ZN-TH110xVE series is available in standard 320x240 pixels.

Benefits of IP Camera

Like all CBC products, the ZN-TH110xVE Series is aprodu ct designed for network use and it shares the same core networking technologies as all CBC imaging products. A user can easily upgrade the firmware over network, and set up or administrate the camera through its standard Web browser.

Video Analytics

Integrating CBC'sadvanced tracking engine into the ZN-TH110xVE Series contributes to improving the

video analytics performance.

The ZN-TH110xVE Series brings the accuracy

in object detection with fewer false alarm rates to unprecedented level.



GANZ.

Specifications

Camera Module						
Focal Plane Array	17 µm Uncooled Vanadium Oxide					
Effective Pixels	320x240					
Scanning System	Progressive Scan					
Spectral Response	$8 - 14 \mu m$					
	16.7mm, F1.2 5(18.7 Degree FoV)					
Lens (Optional)	25mm, F1.2 (12.4 Degree FoV)					
	35mm, F1.2 (8.9 Degree FoV) 50mm F1.2 (6.2 Degree FoV)					
	Other Lenses available upon request					
NEDT	Less than 50mK					
Video						
Compression Frame Bate	H.264, MPEG4, MJPEG					
Number of Streams	Dual Stream, Configurable					
Resolution	Sensor is 320x240, Image can be scaled					
Motion Detection	trom QCIF to D1 Support (DSP)					
Burnt-in Text	Support (DSP)					
Output	1 channel					
Audio						
Input	1 channel					
Output	1 channel					
Compression Format	G.711					
Function						
Digital Input	1 channel (Dry and Wet Contact					
Digital Output	Selectable)					
RS-485/422	Support (RS-485 only)					
Network	10 / 100 Base-T					
Protocol	TCP/IP, UDP/IP, HTTP, RTSP, RTCP, BTP/LIDP BTP/TCP SNTP mDNS LIPPP					
	SMTP, SOCK, IGMP, DHCP, FTP, DDNS,					
	SSL v2/v3, IEEE 802.1X, SSH, SNMP v2/v3					
USB 2.0	Support (Mini-B plug)					
USB 2.0 SD Memory Card Slot	Support (Mini-B plug) Support (microSD type)					
USB 2.0 SD Memory Card Slot Electrical	Support (Mini-B plug) Support (microSD type)					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (JEEE 802 3cf)					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx)	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) 40 °C ~ 50 °C (32 °F ~ 122 °F)					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor Operating Temperature (outdoor)	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0 °C					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature (outdoor) Operating Humidity	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0 °C Up to 85% RH (Non-condensing)					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature (outdoor) Operating Humidity Mechanical	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non-condensing)					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature (outdoor) Operating Humidity Mechanical Material	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non-condensing) Aluminum Die Casting-2 White Dead					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature (indoor Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non-condensing) Aluminum Die Casting-2 White Pearl 65(W) x 65(H) x 114 2(D) mm					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature (indooi Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx)	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0 °C Up to 85% RH (Non-condensing) Aluminum Die Casting-2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature(outdoor) Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (Ii	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non-condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard)					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature(outdoor) Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (In High Performance	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 $\degree \sim 50 \degree (32 \degree F ~ 122 \degree F)$ -40 $\degree \sim 50 \degree (-40 \degree F ~ 122 \degree F)$ *Cold start: 0 \degree Up to 85% RH (Non–condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (II High Performance Easy to Lice	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non–condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (II High Performance Easy to Use Detection Zones	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non–condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi–segment Polygons and Lines					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor Operating Temperature(indoor Operating Temperature(indoor Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (H High Performance Easy to Use Detection Zones On-screen Display	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non-condensing) Aluminum Die Casting–2 White Pearl 65(W) \times 65(H) \times 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi-segment Polygons and Lines Real-time Display of Tracking Data and					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature (indooi Operating Temperature (outdoor) Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (II High Performance Easy to Use Detection Zones On-screen Display	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0 °C Up to 85% RH (Non-condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi-segment Polygons and Lines Real-time Display of Tracking Data and Events					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature(outdoor) Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (Hi High Performance Easy to Use Detection Zones On-screen Display Camera Shake Cancellation	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non-condensing) Aluminum Die Casting-2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi-segment Polygons and Lines Real-time Display of Tracking Data and Events Improve the VCA Performance with					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature(indooi Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (It High Performance Easy to Use Detection Zones On-screen Display Camera Shake Cancellation	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 \degree C ~ 50 \degree C (32 \degree F ~ 122 \degree F) -40 \degree C ~ 50 \degree C (-40 \degree F ~ 122 \degree F) *Cold start: 0 \degree C Up to 85% RH (Non–condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi–segment Polygons and Lines Real–time Display of Tracking Data and Events Improve the VCA Performance with cameras that are prone to shake					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor Operating Temperature(outdoor) Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (II High Performance Easy to Use Detection Zones On-screen Display Camera Shake Cancellation Tamper Detection	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non–condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi–segment Polygons and Lines Real–time Display of Tracking Data and Events Improve the VCA Performance with cameras that are prone to shake Detect camera tampering					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (II High Performance Easy to Use Detection Zones On-screen Display Camera Shake Cancellation Tamper Detection	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non–condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi-segment Polygons and Lines Real-time Display of Tracking Data and Events Improve the VCA Performance with cameras that are prone to shake Detect camera tampering Dption)					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor Operating Temperature(outdoor) Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (II High Performance Easy to Use Detection Zones On-screen Display Camera Shake Cancellation Tamper Detection Video Content Analysis (II Video Content Analysis (II	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non–condensing) Aluminum Die Casting–2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi–segment Polygons and Lines Real–time Display of Tracking Data and Events Improve the VCA Performance with cameras that are prone to shake Detect camera tampering Dption) Direction, Stopping, Loitering, Entering, Fxiling Appaar Disappear Filters					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indoor Operating Temperature(indoor Operating Temperature(indoor Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (It High Performance Easy to Use Detection Zones On-screen Display Camera Shake Cancellation Tamper Detection Video Content Analysis (C Detection Behavior	Support (Mini–B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6–8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non–condensing) Aluminum Die Casting–2 White Pearl 65(W) \times 65(H) \times 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi–segment Polygons and Lines Real–time Display of Tracking Data and Events Improve the VCA Performance with cameras that are prone to shake Detect camera tampering Direction, Stopping, Loitering, Entering, Exiting, Appear, Disappear Filters, Abandoned and Removed Object,					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature(outdoor) Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (It High Performance Easy to Use Detection Zones On-screen Display Camera Shake Cancellation Tamper Detection Video Content Analysis (O Detection Behavior	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0 °C Up to 85% RH (Non-condensing) Aluminum Die Casting-2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi-segment Polygons and Lines Real-time Display of Tracking Data and Events Improve the VCA Performance with cameras that are prone to shake Detect camera tampering Direction, Stopping, Loitering, Entering, Exiting, Appear, Disappear Filters, Abandoned and Removed Object, Tailgating Detection Parmotiko Camerat Size and Caced Filters					
USB 2.0 SD Memory Card Slot Electrical Power Source Power over Ethernet Power Consumption(Approx) Environmental Operating Temperature(indooi Operating Temperature(outdoor) Operating Temperature (outdoor) Operating Humidity Mechanical Material Color Dimension Weight (Approx) Video Content Analysis (It High Performance Easy to Use Detection Zones On-screen Display Camera Shake Cancellation Tamper Detection Video Content Analysis (C Detection Behavior Statistics	Support (Mini-B plug) Support (microSD type) 12V DC (Screw Terminal) Support (IEEE 802.3af) Estimated 6-8 Watts 0 °C ~ 50 °C (32 °F ~ 122 °F) -40 °C ~ 50 °C (-40 °F ~ 122 °F) *Cold start: 0°C Up to 85% RH (Non-condensing) Aluminum Die Casting-2 White Pearl 65(W) x 65(H) x 114.2(D) mm 300g ncluded as Standard) Advanced Tracking Algorithm, Low False Alarm Rate Intuitive Web Browser Interface Multi-segment Polygons and Lines Real-time Display of Tracking Data and Events Improve the VCA Performance with cameras that are prone to shake Detect camera tampering Direction, Stopping, Loitering, Entering, Exiting, Appear, Disappear Filters, Abandoned and Removed Object, Tailgating Detection Perspective Corrected Size and Speed Filters Counting Eunctions and Other Statistics					



Dimension



142.9







General Surveillance Camera

ZN-TH110xVE



High Accuracy Traffic Monitoring with ZN-TH110xVE





Ordering information

The ZN-TH110xVE Series is designed for a wide variety of applications and distance requirements. Models are available in a varying resolutions and lens options. Lens options not listed are available upon request. All products come with VCA presence as a standard feature.

with housing CBC model no.	Resolution	FPS	Focal length	FOV (Degree)	РоЕ	USB	SD	VCApresence
ZN-TH110FVE-07-H	320 x240 (QVGA)	30Hz	7.5mm	42.1	0	0	0	0
ZN-TH110FVE-16-H			16.7mm	18.7	0	0	0	0
ZN-TH110FVE-25-H			25mm	12.4	0	0	0	0
ZN-TH110FVE-35-H			35mm	8.9	0	ο	0	0
ZN-TH110FVE-50-H			50mm	6.2	0	0	0	0
ZN-TH1109VE-07-H	320 x240 (QVGA)	9Hz	7.5mm	42.1	0	ο	0	0
ZN-TH1109VE-16-H			16.7mm	18.7	0	ο	0	0
ZN-TH1109VE-25-H			25mm	12.4	0	ο	0	0
ZN-TH1109VE-35-H			35mm	8.9	0	ο	0	0
ZN-TH1109VE-50-H			50mm	6.2	0	ο	0	0

Housings

Thermal camera Housing specifications					
Models	ODE-1000T-230				
Material	Aluminum die casting				
Color	lvory				
Paint	Powder coating				
Size (mm)	160(W) x 165(H) x 425(D)mm				
Weight	5Kg				
Heater/Fan Control	Heater : 0 $^{\circ}$ C (ON) / 10 $^{\circ}$ C(OFF) Fan : 35 $^{\circ}$ C (ON) / 25 $^{\circ}$ C (OFF)				
	ODE-1000T-230 : -40 ~ 50 ℃				
Operating Temp.	ODE-1000T-PoE: -20 ~ 50 ℃				
	ODE-1000T-024 : -40 ~ 50 ℃				
Input power	ODE-1000T-230: AC90V ~ 230V, 50/60Hz(standard) ODE-1000T-PoE: PoE+, 50/60Hz (option) ODE-1000T-024: AC24V, 50/60Hz (option)				
Protection	IP66				

Dimension







Theoretical Distance (unit : Meter)

Long		Vehicle		Human			
Lens	Detect	Recognize	Identify	Detect	Recognize	Identify	
7.5mm	491	125	62	170	43	22	
14.5mm	955	243	122	338	84	42	
25mm	1560	405	202	565	140	70	
35mm	2150	560	280	780	190	97	
50mm	2600	700	350	1000	250	128	

