



**KEY FEATURES**

- DUAL LENS LONG RANGE PTZ
- LATEST 12µM UNCOOLED DETECTOR
- THERMAL RESOLUTION OF 640 X 512
- 57X OPTICAL ZOOM VISUAL
- LASER RANGE FINDER UPTO 4KM
- EIS AND OIS SUPPORT WITH GYRO
- THERMAL MOTORIZED LENS 6X ZOOM
- VISUAL SENSOR 2688 X 1520 4MP
- DIFFERENT PALLETE COLOR MODES
- FIRE AND SMOKE DETECTION
- SMART DETECTING FUNCTIONS SUCH AS INTRUSION AND LINE CROSSING
- HIGH PERFORMANCE IMAGE UNIT
- LIGHT WEIGHT AND DURABLE
- ALL WEATHER OPERATION WITH IP67
- WIPER SUPPORT
- BUILT IN HEATER AND FAN

**SPECIFICATIONS**

THERMAL	
DETECTOR TYPE	Uncooled FPA Vanadium Oxide micro bolometer Detector
ARRAY PIXEL	640 x 512, VGA
SPECTRAL RANGE	8 ~ 14µm
PIXEL SIZE	12µm
NETD	≤ 50mK
FOCAL LENGTH	30mm ~ 180mm, 6x Motorized lens, F1.0 ~ F1.4
ZOOM SPEED	< 5s (W ~ T)
FOV	14.6° x 11.7° (H x V) ~ 2.44° x 1.96° (H x V)
FOCUS MODE	Semi-Auto / Manual / One Push
EIS	Support
DIGITAL ZOOM	8x Support
COLOR PALLETE	20 modes selectable such as Black hot/white hot/ Rainbow, etc.
VISUAL	
IMAGE SENSOR	1/1.8 inch STARVIS Progressive Scan CMOS
MAX. RESOLUTION	2688 x 1520, 4MP
FOCAL LENGTH	15 ~ 850mm, 57x Opticalzoom (F2.8-F8.2), Zoom Speed < 7s (W~T)
FOCUS MODE	Semi-Auto / Auto / Manual / One-shot auto
FOV	29.1° ~ 16.7° (H x V) , 0.53° ~ 0.3° (H x V)
MIN. ILLUMINATION	Color: 0.01Lux, B/W 0.001Lux, AGC&AI-NR On, F2.8
NEAR FOCUS DISTANCE	1 ~ 10 m
SHUTTER SPEED	1/1 ~ 1/30000s
NOISE REDUCTION	2D/3D/AI-NR
WDR	True Ultra WDR > 120db
IMAGE STABILIZATION	Support EIS and OIS, Built-in gyroscope sensor
DAY/NIGHT	Manual/Auto (ICR)
WHITE BALANCE	Auto/Manual/ATW/Indoor/Outdoor/Sodium Lamp/Streetlight/Natural

DEFOG	Optical (NIR) + Digital
ANTI-HEATWAVE	Auto/ Manual
DIGITAL ZOOM	16x
PTZ	
PANRANGE / SPEED	Pan: 360° Continuous Rotate / Configurable: 0.02°~ 120°/s
TILT RANGE / SPEED	Tilt -90°~ +90° / Configurable: 0.02°~ 80°/s
POSITIONACCURACY	0.01°
PRESETS	256
TOUR	8, up to 32 presets per patrol
SCAN / PATTERN	5
PARK / SCHEDULED TASK	Preset/Tour/Scan/Pattern
POWEROFFMEMORY	Support
SNAP POSITION	Support
PROPORTIONAL PT TO ZOOM	Support
HEATER/FAN	Integrated, Auto/Manual
WIPER	Integrated, Manual/Schedule
NETWORK/SYSTEM	
PROTOCOLS	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTP, ARP, NTP, FTP, DHCP, PPPoE, DNS, DDNS, UPnP, IGMP, ICMP, SNMP, SMTP, QoS, 802.1x, Bonjour
INTEROPERABILITY	ONVIF (Profile S, G, T), HTTP, SDK, API
SECURITY	User authentication (ID and password), IP/MAC address filtering, HTTPS encryption, IEEE 802.1x network access control
USER MANAGEMENT	Up to 20 users, 2 levels: Administrator, User
BROWSER	IE, Edge, Firefox, Chrome
STORAGE	Micro SD/SDHC/SDXC card (Up to 1Tb) edge storage, FTP, NAS
OSD	Name, Time, Preset, Temperature, P/T Status, Zoom, Address, GPS, Image overlay, Abnormal info
LANGUAGE	English

# SAAD-ZTI4030MTL-W527T180

UNCOOLED PTZ DUAL SPECTRUM THERMAL IMAGING UNIT

## SPECIFICATIONS, CONT.

VIDEO AUDIO	
IMAGE ENCODING FORMAT	JPEG, 1~7fps (1920 x 1080)
AUDIOCOMPRESSION	AAC (8/16kHz) , MP2L2 (16kHz)
VIDEOCOMPRESSION	H.265/ H.264/ H.264H/ H.264B/ MJPEG
MAINSTREAM	Visible: 50/60fps (1920 x 1080, 1280 x 720), 16fps@MJPEG Thermal: 25/30fps (1280 x 1024, 704 x 576)
SUBSTREAM	Visible: 25/30fps (1920 x 1080, 1280 x 720, 704 x 576/480) Thermal: 25/30fps (704 x 576, 352 x 288)
SMART FUNCTION	
FIRE PREVENTION	Fire and Smoke Detection
PERIMETER PROTECTION	Line crossing, Fence crossing, Area Intrusion
TARGET DISTINCTION	Human, Vehicle and Vessel detection and Classification
EVENT DETECTION	Motion, Masking, Scene change, Audio detection, SD card error, Network disconnection, IP conflict, Illegal network access
BEHAVIORAL DETECTION	Loitering Detection, Fast Moving, Crowd Gathering, Parking Detection, Abandoned Object, Missing Object
AUTO TRACKING	Multiple detection tracking modes
STRONG LIGHT PROTECTION	Supported

SYSTEM INTERFACE	
EHTERNET	1x RJ45 10M/100M Ethernet port
AUDIOINPUT/AUDIOOUTPUT	1 channel / 1 channel
ALARM INPUT / ALARM OUTPUT	2 channels / 1 channels
STORAGE INTERFACE	Support Micro SD / SDHC / SDXC card (Max. 1TB) (SD Card not Included)
RJ485	Support
GENERAL	
OPERATING CONDITIONS	-40°C ~ +70°C / -40°F ~ +158°F
PROTECTIONBODY	IP67, Corrosion-resistant coating, NEMA 4x
POWER	36V DC, typical 30W, max 120W, DC36V/4.8A Power adapter included TVS 6000V, Surge protection, Voltage transient protection
DIMENSIONS (W × H × L)	540 × 368 × 355mm / 21.25" x 14.48" x 13.97"
WEIGHT	28 KG / 61.7 lbs

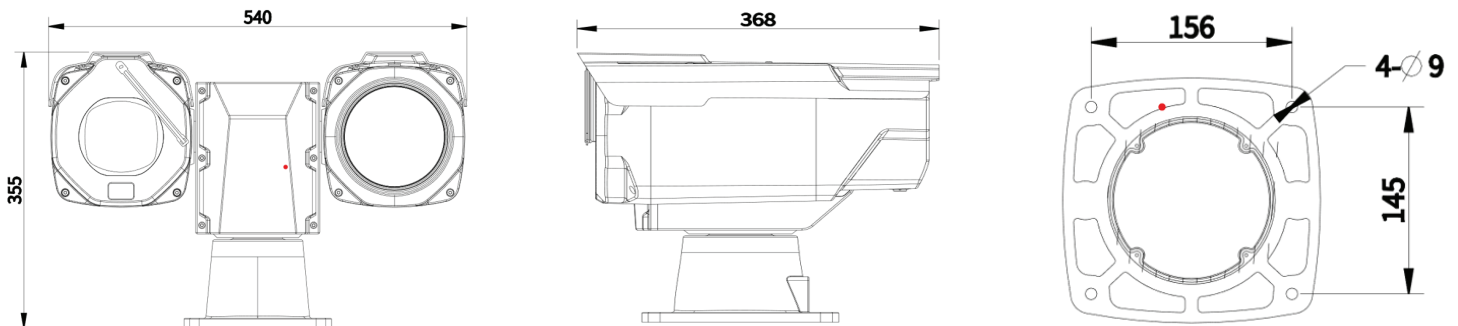
LENS VISUAL DORI* 4MP / 60X OPTICAL	DETECT	OBSERVE	RECOGNIZE	IDENTIFY
	10.69km	4.24km	2.13km	1.07km

\*DORI standard (based on the IEC EN62676-4:2015 international standard) defines different levels of detail for detection (25PPM), observation (62PPM), recognition (125PPM), and Identification (250PPM). This table is for reference only and performance may vary depending on the environment.

LENS THERMAL DRI*	DETECT	RECOGNIZE	IDENTIFY
HUMAN	7.5km	1.88km	0.94km
VEHICLE	23km	5.75km	2.88km

\*DRI distances are calculated according to Johnson criteria: detection(1.5 or more pixels), recognition(6 or more pixels), identification(12 or more pixels). This table is for reference only and performance may vary depending on the environment.

## DIMENSIONS (MM)



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