DS-2TXS2628-7P/QA/GLT/CH30S80
Solar-powered Thermal Camera Kit

Hikvision Solar-powered Thermal Camera Kit series features high accurate VCA and temperature exception alarm for fire prevention. Supporting multiple standards including GSM, WCDMA and 4G LTE, the camera setups connect easily and wirelessly to the internet over mobile networks. The camera series is embedded with audible alert and strobe light. It can be used in construction sites, farms, mobile tower, etc.

Key Feature

- 256 × 192 resolution, 12 μm, VOx UFPA, NETD < 40 mK (25°C, F1.0)
- Video content analysis: vehicle/human classification
- 80 W photovoltaic panel, 30 Ah chargeable lithium battery
- Temperature exception alarm for fire prevention, -20°C to 150°C (-4°F to 302°F), ± 8°C (± 14.4°F)
- LTE-TDD/LTE-FDD/WCDMA 4G wireless network transmission, support Micro SIM card
- Water and dust resistant (IP67)
- Embedded audible alert and strobe light
- High quality detector with 10 years guarantee
- Built-in 32 GB eMMC storage

▪ Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	256 × 192
Pixel Pitch	12 μm
Spectral Range	8 μm to 14 μm
NETD	≤ 40 mK (@25°C, F# = 1.0)
Focal Length	6.9 mm
Focus Mode	Athermalized
IFOV	1.74 mrad
Aperture	F1.0
Field of View	24.9° × 18.7° (H × V)
Min. Focusing Distance	1 m
Digital Zoom	× 2, × 4
Optical Module	
Image Sensor	1/2.7" Progressive Scan CMOS
Resolution	2688 × 1520
Min. Illumination	0.0089Lux @(F1.6,AGC ON), 0 Lux with IR
Field of View	53.0°(H) × 28.0°(V)
Focal Length	6.4 mm
Aperture	F1.6
Shutter Speed	1 s to 1/100,000 s
White Balance	MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light Lamp/Natural Light
Day & Night Mode	IR Cut Filter with Auto Switch
WDR	120 dB
Image Effect	
Bi-spectrum Image Fusion	Display the details of optical channel on thermal channel
Target Coloration	Yes. Supported in white hot and black hot mode
Illuminator	
IR Distance	Up to 30 m
IR Intensity and Angle	Automatically adjusted
Audible and Visual Alarm	
White Light Range	Up to 30 m
Visual Alarm	Yes. White light alarm with adjustable flashing frequencies
Audio alarm	Yes, for three types of audible alarm (VCA and Temperature Exception) 3 preset voice alerts (one for each) 6 importable user-defined voice alerts (6 options shared in the two types)
Smart Function	
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.
Temperature Measurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)
Temperature Range	-20°C to 150°C (-4°F to 302°F)
Temperature Accuracy	± 8°C (± 14.4°F)

Video and Audio

Main Stream	Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240) Optical: 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-stream	Thermal: 25 fps (704 × 576, 640 × 512, 320 × 240) Optical: 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 480, 352 × 240)
Video Compression	Main Stream: H.265/H.264 Sub-Stream: H.265/H.264/MJPEG
Audio Compression	G.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/PCM

Network

Protocols	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,SFTP,SRTP
Network Storage	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
API	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video Interface (Profile S, Profile G)
Simultaneous Live View	Up to 20 channels
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security	User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering
Client	iVMS-4200, Hik-Connect

Interface

Alarm Input	2, alarm input (0 to 5 VDC)
Alarm Output	2, alarm output (alarm response actions configurable)
Alarm Action	Linkage Method Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email
Audio Input	1, 3.5 mm Mic in/Line in interface Line input: 2 to 2.4 V [p-p], output impedance: 1 KΩ ± 10%
Audio Output	Linear level, impedance: 600 Ω
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface (half duplex)

Mobile Communication

SIM Card Type	MicroSIM
Frequency	LTE FDD: B 1/3/5/7/8/20/28 LTE TDD: B 38/40/41 WCDMA: B 1/5/8
Standard	LTE FDD/LTE TDD/WCDMA

General

Menu Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power Supply	12 VDC ± 25%, φ 5.5 mm coaxial power plug PoE (802.3af, class 3)
Power Consumption	12 VDC ± 25%: 0.83 A, Max. 10 W PoE (802.3af, class 3): 36 V to 57 V, 0.28 A to 0.18 A, Max. 10 W
Working Temperature/Humidity	Temperature: -40°C to 65°C (-40°F to 149°F) Humidity: 95% or less
Protection Level	IP67 Standard, IK10-rated housing TVS 4000V lightning protection, surge protection, voltage transient protection
Dimensions	208.9 mm × 106 mm × 105.2 mm (8.22" × 4.17" × 4.14")
Adjustment Range	Bullet camera: Tilt: -10° to +45°, Pan: -180° to +180° Photovoltaic panel: Tilt: 10° or 30°
Weight	26.6 kg (58.64 lb)
Mount	Pole Mount
With Package Weight	27.79 kg (61.26 lb)
Storage Conditions	Temperature: -40°C to 65°C (-40°F to 149°F) Humidity: 95% or less
Startup and Operating Conditions	Temperature: -40°C to 65°C (-40°F to 149°F) Humidity: 95% or less

Battery

Battery Type	Lithium *The battery should be ordered separately.
Battery Voltage	10.8 V
Battery Capacity	30 Ah
Operating Temperature	Charging: -20°C to 45°C (-4°F to 131°F) Discharging: -20°C to 60°C (-4°F to 140°F)
Battery Life	More than 500 cycles
Battery Weight	Approx. 3.3 kg (7.3 lb.)
Extended Dimension	236 × 154 × 80 mm (9.3 " × 6.1 " × 3.2 ")
Max. Output Voltage	12.6 V

Approval

EMC	CE-EMC: EN 55032:2015+A11:2020; EN 50130-4:2011+A1:2014; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019 FCC SDOC: 47 CFR Part 15, Subpart B
RF	CE-RED: EN 301 489-1 V2.2.3; EN 301 489-19 V2.2.0; EN 301 489-52 V1.2.1; EN 301 511 V12.5.1; EN 301 908-1 V13.1.1; EN 301 908-2 V13.1.1; EN 301 908-13 V13.1.1; EN 303 413 V1.1.1; EN 62311:2008
Safety	CB: IEC 62368-1: 2014 CE-LVD: IEC 62368-1: 2014
Environment	IATA Dangerous Goods Regulations, Dangerous Goods List, International Maritime Dangerous Goods Code, Railway Dangerous Goods List

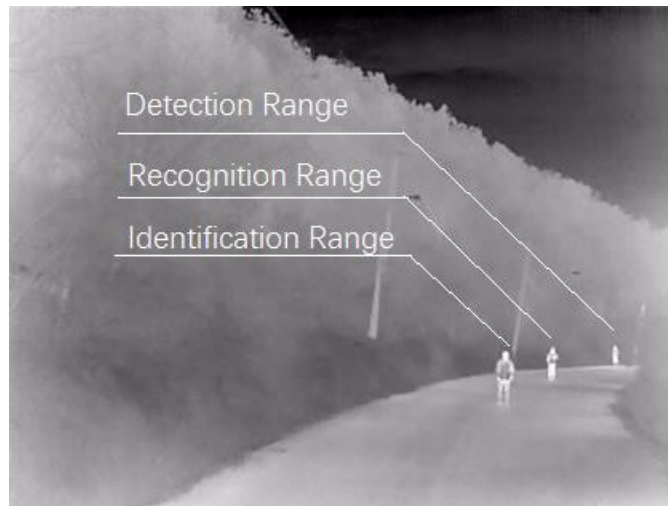| Protection	Camera: IP67 (IEC 60529-2013), IK10-rated housing
	TVS 4000V lightning protection, surge protection, voltage transient protection
	Wind resistance 12 level

DRI Range Table

The table is only for reference and the performance may vary according to different environment.

The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

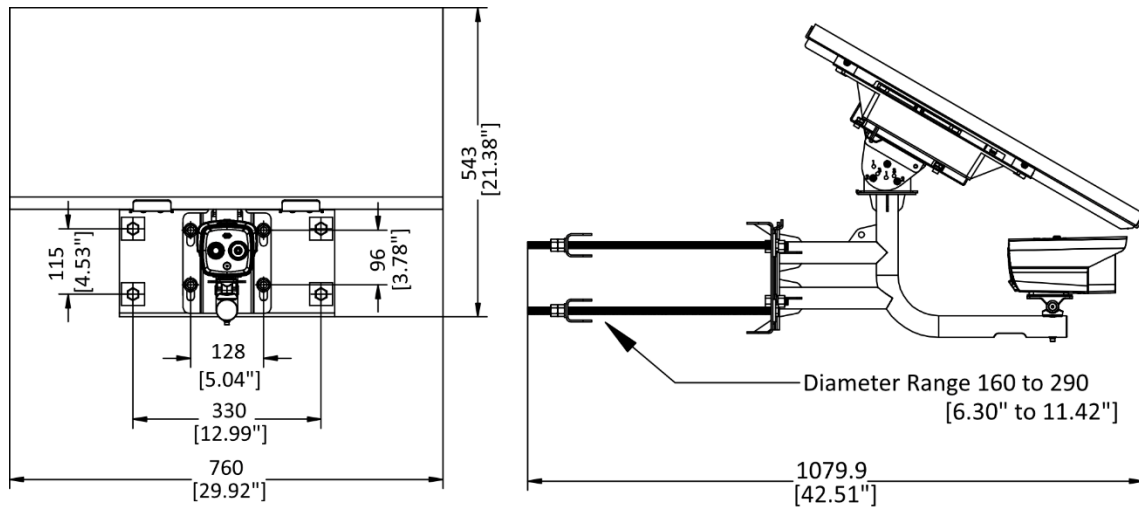| Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
881 m	287 m	220 m	72 m	110 m	36 m

Smart Function Table

The table is only for reference and the performance may vary according to different environment.

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.2 × 0.2 m)	Temperature Measurement (Object: 1 × 1 m)
144.9 m	55.2m	23.3 m	116.7 m

▪ Available Model

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▪ **Dimension**

543 [21.38"]
115 [4.53"]
96 [3.78"]
128 [5.04"]
330 [12.99"]
760 [29.92"]

Diameter Range 160 to 290 [6.30" to 11.42"]
1079.9 [42.51"]

Unit: mm [Inch]

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