

# SMART IP SOLUTION

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Super Starlight · Color Maker · Turbo AI  
EWarning · Face Recognition · Fever Detection

**Tiandy**

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Distributor Information

## About Tiandy

Founded in 2004, Tiandy Technologies is a world-leading intelligent surveillance solution and service provider positioned in full color full time, ranking No.7 in the surveillance field. As a world leader in video surveillance industry, Tiandy integrates AI, big data, cloud computing, IoT and cameras into people-centric intelligent solutions. With more than 2,000 employees, Tiandy has over 60 branches and support centers at home and abroad.

With strong and highly-capable R&D team as the core of our company, we are being the first in the industry to put forward the “Starlight” concept in 2015, which we applied into IPC to take sharp and colorful image in static scene of 0.002 Lux. Then we improved the “Super Starlight” cameras with exclusive TVP algorithm to capture image in the static scene of 0.0004 Lux in 2017 and then in the dynamic scene of 0.0004 Lux in 2018 when we completely launch the Star device line that consists IPC, PTZ and Panoramic series. Now, with user-friendly self-developed GUI, “Easy7” VMS and “EasyLive” mobile APP, we offer cost-efficient products and project-based products including 2MP to 16MP camera, 4X to 63X PTZ camera and 5ch to 320ch NVR, supporting milestone and patriot. Fortified by our advanced SMT production line and strict quality control system, we are able to provide 8 million pieces of IPCs with lower than 1% defect rate per year. With all these efforts, we are also the first in the industry to be awarded national famous brand. Besides, we are certified CMMI5, draft 25 industrial standards, enjoy ONVIF full membership and acquire over 500 product design patents and software copyrights.

We pursue high-quality products and develop various industry solutions, ranging from intelligent neighbourhood, intelligent traffic system, intelligent education, financial system, to water resource engineering etc. Now, our customers are over 60 countries and our products and services are applied in over 500 smart cities as well as in Davos Forum, London Heathrow Airport and the World Cup in Brazil etc.. We focus on developing a reliable cooperation platform to our partners and promise our customers a safe smart life with the mission of “Vision for World”. Whatever the requirements, Tiandy will always and be able to find a way to meet your needs.



# 2020 Security 50 by a&s Magazine





# TECHNOLOGY HIGHLIGHTS



**Color Maker**  
24 hours Full Color



**Turbo AI**  
AI Popularizer



**EWarning**  
Auto-tracking  
Early Warning



**Super Starlight**  
Color: 0.0004Lux



**TVP<sup>®</sup>**  
Transcendent Video  
Processing



**Plugin Free**  
No ActiveX



**VMS**  
All in one



**Panoramic**  
180°/360° Panoramic Camera  
PTZ Camera



**S+265** Codec  
Save 50% Storage



**Face Capture**  
High Capture Rate



**Face Recognition**  
High Accuracy Full Solution



**Human/  
Vehicle Classification**  
Less False Alarm

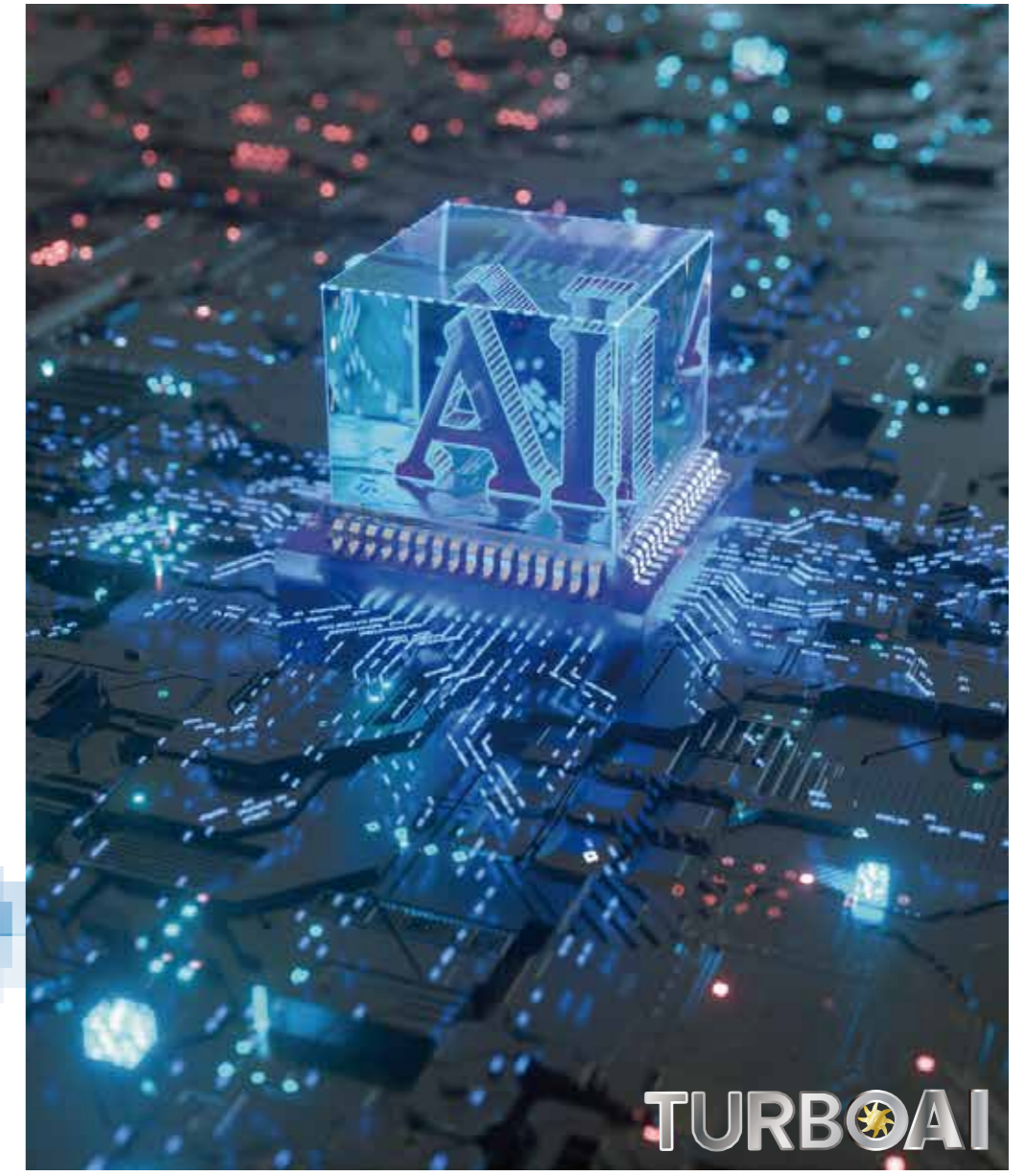
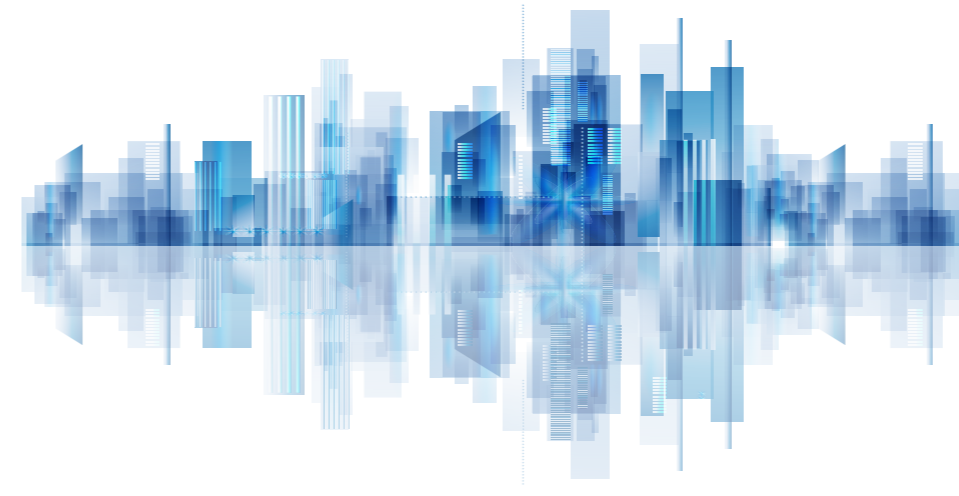
## Color Maker

Combined with large aperture and large sensor, Tiandy Color Maker technology enable camera to obtain large amount of light in low light environment. Even at totally dark nights, cameras equipped with Color Maker technology can capture vivid color image and find more details in scenes with the help of warm lights illumination. Color Maker technology make it possible for camera to achieve the goal of full-time full-color.



## Turbo AI

Tiandy dedicates to be popularizer of AI intelligent functions. Tiandy Pro series cameras, all of which are equipped with AI chipsets, support face capture mode and up to 16 kinds of VCA intelligent analysis. Part of them even go further and support human/vehicle classification function based on deep learning algorithm, which improves the detection accuracy and reduces false alarm rates. AI chipset not only tremendously energizes product detection ability, but also allows information processing accelerating.



**TURBOAI**



## Fever Detection

Supports optical and thermal bi-spectrum image  
Vanadium Oxide Uncooled Focal Plane Arrays  
Thermal Resolution 256×192, output resolution up to 1280×960@25fps  
Measure Accuracy  $\pm 0.5^{\circ}\text{C}$ , ( $\pm 0.3^{\circ}\text{C}$  with blackbody)  
Detection distance 0.5~3m  
Optical Resolution up to 2560×1440@25fps  
Optical Min. illumination Color: 0.0002Lux@F1.0  
Built-in Mic& Speaker



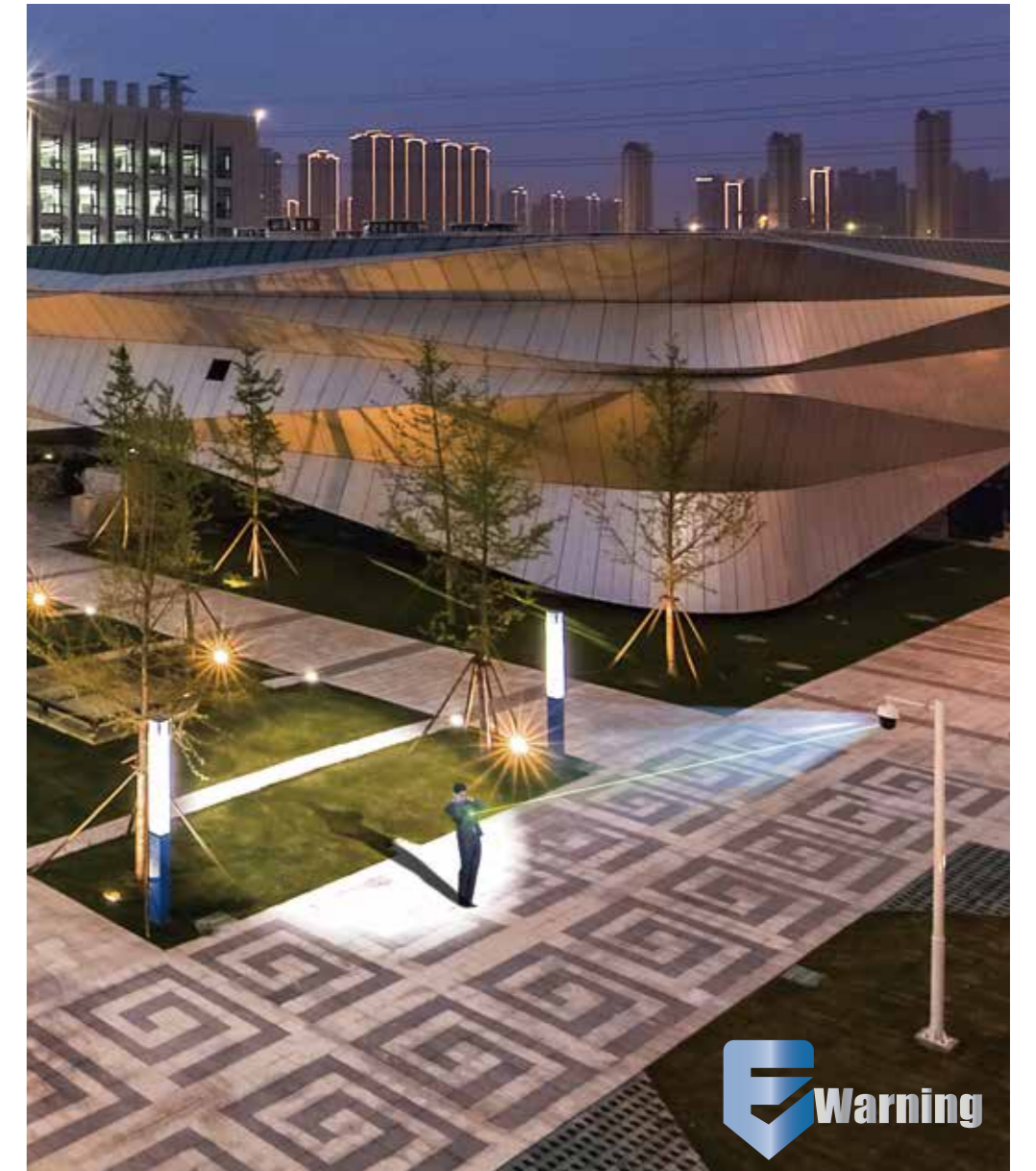
**Tiandy**

**MORE THAN THERMAL  
BUILT-IN AI & VOICE WARNING!  
This is Tiandy**

TC-C34LP Spec: I5/E/T/4mm 0.0002Lux@F1.0

## EWarning

Based on AI deep learning, EWarning is the combination of light warning and audio warning, achieving the effect of prevention, mid-way intervention and post-event investigation. It can precisely differentiate vehicle from people, and warn people or vehicle respectively, thus increasing the accuracy and availability of warning compared with traditional OpenCV.



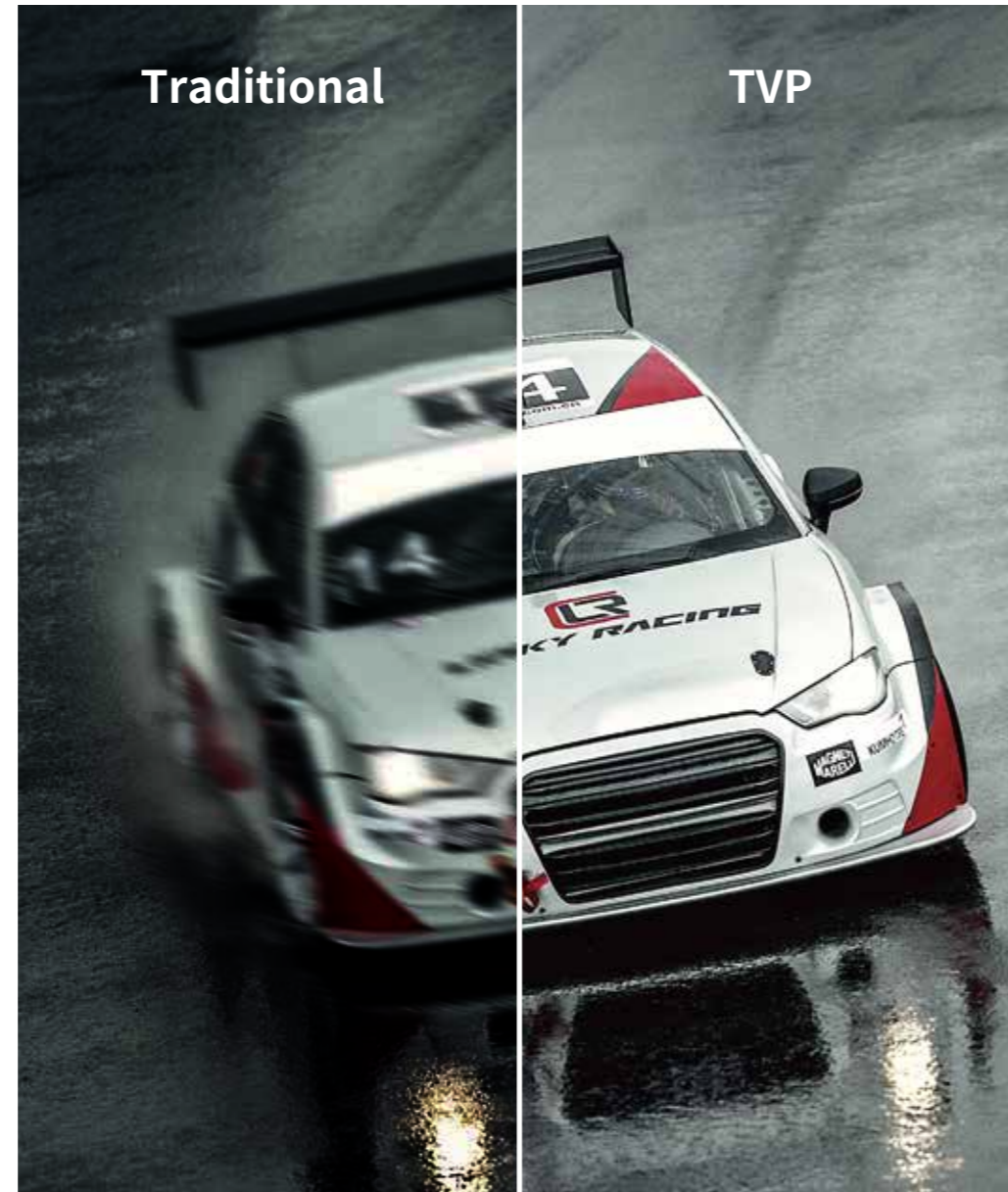


## TVP

Transcendent Video Processing algorithm uses low-light enhancement algorithm to not only allow more light to enter the camera in low illumination scenes, reduce noise, improve overall picture brightness, but also weaken excessive bright light, and avoid over-exposure of single pixel. So cameras can be adapted to more occasions like traffic road or entrance and exit.

### TVP SUPER STARLIGHT

- Sensitivity 85% ↑
- SNR 25% ↑
- No trailed image of moving object



## Super Starlight

Highly sensitive star-level sensor, in combination with time and space bilateral noise reduction technology, provides excellent image quality even in such low illumination as 0.0004 without trailing.

### DEVELOPMENT OF STARLIGHT



Starlight



Super Starlight



Super Starlight2.0



Super Starlight3.0



## Great White Shark

### HIGHLIGHTS

- 1/1.8 inch CMOS sensor
- Long vari-focal: 10-47mm
- Up to 3840X2160@30fps
- Face capture/intelligent monitoring mode
- Full-time Full-color: 6 warm lights, up to 45m

## 5MP Video Structure AI Dual PTZ Camera

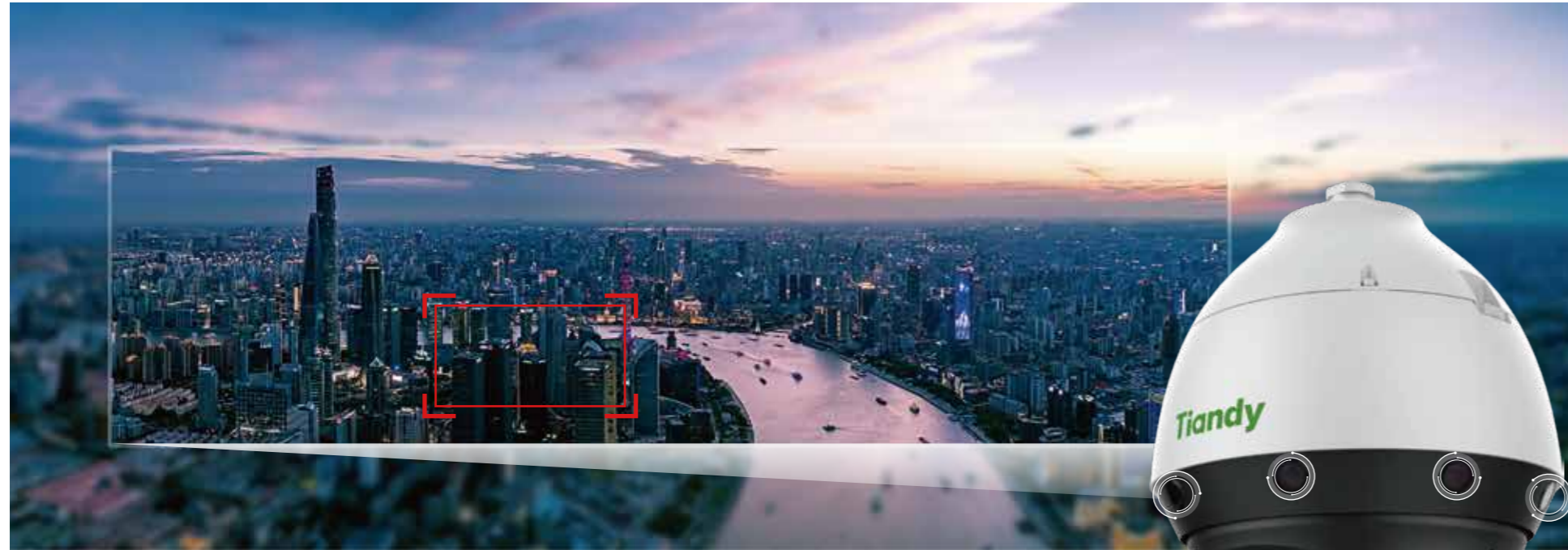
TC-A35555 Spec: 0/A/6mm/9-54mm

TC-A35555 Spec: 0/A/2.8-12mm/9-54mm

- Dual lens linkage capture
- 5MP bullet and 5MP speed dome
- Four warm lights, six IR LEDs array
- Dual speaker / Dual MIC
- Driven by deep learning algorithm
- 4T plus 1T powerful processing
- Face Capture
- Smart surveillance
- Face/Human Body/ Vehicle/Non-motor Vehicle Metadata
- Built-in GPS/BDS: Dual vari-focal model supports







## Panoramic Laser PTZ

### HIGHLIGHTS

- 180°/360° Panoramic view
- Auto-tracking Early Warning
- Laser: 500m night vision
- 44x ultra optical zoom
- Gyroscope, Stabilization



Long Distance 500m  
Auto-tracking Early Warning



## VMS: K1000/K2000

K1000: TC-S3608 Spec: T/2U  
K2000: TC-S36424 Spec: T/4U

K1000 and K2000 are all-in-one devices which combine with Easy7 CMS, storage server, stream server and decoder in one single device. With Tiandy's powerful video central management system, Easy7 CMS, K1000 and K2000 can manage up to 1000 or 2000 channels for recording, live view and playback along with other intelligent functions. The K1000 and K2000's unique design can greatly save customer's deployment cost and is the best solution for small and medium projects.

K1000	K2000
1000 channels management	2000 channels management
400M recording bandwidth 400M forwarding bandwidth	512M recording bandwidth 400M forwarding bandwidth
Decode output 3 screens	Decode output 3 screens, extend to 18 screens with 3 decode boards
16×1080P decoding capability	18×1080P decoding capability, extend to 144×1080P decoding with 3 decode boards
Alarm link, audio link, E-map, TV wall, face surveillance	Alarm link, audio link, E-map, TV wall, face surveillance





## Easy7 Smart Client Express



Easy7 Smart Client Express is an independent video management software based on macOS (64bits) and Windows (64bits) Operation system for Tiandy IP cameras, PTZs, NVRs, XVRs, decoders etc. Up to 200 IP devices or 512 channels can be connected to Easy7 Smart Client Express. It supports functions like preview, playback, alarm, two-way audio, PTZ control etc. and configuration like device management, user management, storage, event etc.

Easy7 Smart Client provides multiple solutions like the people counting solution, fever detection solution, face recognition solution for small and medium scenarios with friendly using experience and intuitive data report.

OS Requirement	Windows 7/10 (64bits) macOS 10.12 or above
Supported Devices	IPC, NVR, XVR, PTZ etc.
Max. Connected Devices IP Number	200
Max. Connected Devices Chanel Number	512
Max. Connected P2P Devices Number	512
Max. Windows Division Mode for Live View	64
Max. Windows Division Mode for Playback	16
Max. People Counting IPCs under a zone	64
Languages	17
Functions	Preview, Playback, Equipment Management, Alarm Configuration, Alarm Management, System Configuration, User Management, Data Statistics, Intelligent Search, Operation Logs

## Easy7 Central Management System



Easy7 Central Management System software (CMS) is the core part of the security surveillance platform, which is powerful, scalable and reliable. Easy7 CMS supports distributed deployment based on CentOS and is capable of managing up to 300,000 surveillance points. It provides a wealth of functions such as video monitoring, alarm query, face surveillance, personnel query, vehicle query, event management, storage management, E-Map, device management, attendance management, flow management, system settings. Easy7 CMS can be applied to middle and big surveillance solutions. Easy7 CMS can be easily managed via Chrome browser or mobile APP E7 on Android or iOS.





## SUCCESSFUL CASES



**A FAMOUS UNIVERSITY IN GYEONGBUK, SOUTH KOREA**

At the end of 2020, a famous university in Gyeongbuk, South Korea, selected Tiandy Thermal Camera & Tiandy Thermal NVR to be installed in the key entrances and exits of the university to prevent COVID-19. Tiandy products have been well received after being installed and debugged for the customer.



**2018 RUSSIA WORLD CUP**

This project installed more than 2000pcs Tiandy starlight varifocal cameras to ensure the personal safety. Tiandy HD IP surveillance system supports S+265 which can help the user save more than 50% storage space. It realized transfer the 1080p under 800K bandwidth with clear image. The good quality with IP67 and TVS6000V, working temperature fit for -40 °C to 60 °C.

## SUCCESSFUL CASES



**COMPLEX SHOPPING MALL WISHCO IN THAILAND**

WhisCO shopping mall, a very popular shopping mall with many visitors daily. Avoiding too many people in the same place, protecting the safety of customers and keeping every property in a secure condition are challenges for management. Tiandy surveillance with super starlight function, smart analysis and warnings are applied in this system. Keep every customer safe both in daytime and night. Warn when too many customers in a same area and when people enter restrict area.



**QUEENSLAND COAST**

The Tiandy Ultra Series PTZ was selected to protect one of the most exclusive homes in Queensland, Australia. With its analytic triggered audible and visual early warning system linked to Auto Tracking, this camera offered the perfect solution to protect the home owners and deter any early level of threat.



## SUCCESSFUL CASES



**RABATI CASTLE PROJECT IN GEORGIA**

Georgia is now home to a DLB 5-90n/5-15n surveillance network. Installation of Tiandy video surveillance systems without damaging the aesthetic beauty of the castle, use of wireless network devices for stable transmission of video stream.



**AL REEF VILLAS PROJECT IN UAE**

Al Reef villas will comprise over 2300 villas, over 1800 apartments in a mix of studios, a four star hotel and a retail area. Over 200pcs of Super starlight cameras and 10 NVRs installed around the whole community. The camera used at commercial area shows great stability and performance at all the night and day time. Tiandy will continue provided integrating surveillance solution for this upcoming project.

## SUCCESSFUL CASES



**JORDANIAN CITY OF PETRA IN MIDDLE EAST**

Petra (بَارْتَبَدَا), originally known to its inhabitants as Stone city, is a historical and archaeological city in southern Jordan. In the entire tourist of Petra city, 53 of Tiandy's PTZ cameras were installed. This link is a live image of the Tiandy's super starlight PTZ camera Ultra series model TC-NH62441AA-G. Camera was set up on the high point overlooking at the Petra city, allowing visitors from all over the world to see its view.



**5-STAR HOTEL IN EGYPT**

This project has installed a total of more than 200 cameras. Products with very high performance, low investment and large returns ensure both operational safety and cost saving. Low illumination, voice speaking, white light, space-saving, intelligent analysis, 24 hour-working, all the functions combined together to ensure the safety of customers' lives and property and to provide evidence when emergency occurs.





# IPC Lite

Lite line as primary products line is cost-effective and easy-to-install that can be applied to retail stores, warehouses, parking lots and parks, etc. Built-in mic, SD card slot and reset button, Lite series provide value-added interfaces in hardware; supporting two most used VCA functions, tripwire and perimeter, Lite series provide entry-level intelligent experience. Now fixed cameras with resolution from 2MP to 8MP and motorized cameras with 2MP and 5MP are available for customers. In addition to starlight and super starlight cameras, newly released Color Maker cameras offer a 24 hours full color image.

## Key Features

- Starlight/Super Starlight/Color Maker
- Built-in Mic/SD Card Slot/Reset Button
- Supports Tripwire and Perimeter
- ONVIF Profile S/T/G
- S<sup>+</sup>265

Model	 TC-C32WN Spec: I5/E/Y/(M)2.8mm TC-C32WN Spec: I5/E/Y/(M)4mm	 SUPER STARLIGHT TC-C32WP Spec: I5/E/Y/(M)2.8mm TC-C32WP Spec: I5/E/Y/(M)4mm	 TC-C32XN Spec: I3/E/Y/(M)2.8mm	 SUPER STARLIGHT TC-C32XP Spec: I3/E/Y/(M)2.8mm	 TC-C32KN Spec: I3/E/Y/2.8mm
<b>Image sensor</b>	1/2.9" CMOS	1/2.8" CMOS	1/2.9" CMOS	1/2.8" CMOS	1/2.9" CMOS
<b>Max. image resolution</b>	2.0MP (1920×1080)	2.0MP (1920×1080)	2.0MP (1920×1080)	2.0MP (1920×1080)	2.0MP (1920×1080)
<b>Min. illumination</b>	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR	Color: 0.0008Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR	Color: 0.0008Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR
<b>Lens</b>	2.8mm/4mm	2.8mm/4mm	2.8mm	2.8mm	2.8mm
<b>Video compression</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Frame rate</b>	1920×1080@30fps	1920×1080@30fps	1920×1080@30fps	1920×1080@30fps	1920×1080@30fps
<b>WDR</b>	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR
<b>Video Enhancement</b>	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
<b>Alarm Trigger</b>	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict
<b>VCA</b>	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter
<b>Audio I/O</b>	Mic in	Mic in	Mic in	Mic in	Mic in
<b>Alarm I/O</b>	N/A	N/A	N/A	N/A	N/A
<b>Memory slot</b>	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB
<b>Reset Button</b>	Yes	Yes	Yes	Yes	Yes
<b>System compatibility</b>	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)
<b>IR LEDs</b>	2	2	2	2	8
<b>IR range</b>	Up to 50m	Up to 50m	Up to 30m	Up to 30m	Up to 30m
<b>Warm Lights</b>	N/A	N/A	N/A	N/A	N/A
<b>Power supply</b>	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)
<b>Protection Level</b>	IP67	IP67	IP67	IP67	IP67, IK10
<b>Working temperature</b>	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH
<b>Material</b>	Default: Metal+Plastic; M: Metal	Default: Metal+Plastic; M: Metal	Default: Metal+Plastic; M: Metal	Default: Metal+Plastic; M: Metal	Metal+Plastic

Model	 TC-C33WN Spec: I5/E/Y/2.8mm TC-C33WN Spec: I5/E/Y/4mm	 TC-C33XN Spec: I3/E/Y/2.8mm	 TC-C33KN Spec: I3/E/Y/2.8mm	 STARLIGHT TC-C34WS Spec: I5/E/Y/(M)2.8mm TC-C34WS Spec: I5/E/Y/(M)4mm	 STARLIGHT TC-C34XS Spec: I3/E/Y/(M)2.8mm	 STARLIGHT TC-C34KS Spec: I3/E/Y/2.8mm	 STARLIGHT TC-C35WS Spec: I5/E/Y/(M)2.8mm TC-C35WS Spec: I5/E/Y/(M)4mm	 STARLIGHT TC-C35XS Spec: I3/E/Y/(M)2.8mm
<b>Image sensor</b>	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
<b>Max. image resolution</b>	3.0MP (2304×1296)	3.0MP (2304×1296)	3.0MP (2304×1296)	4.0MP (2592×1520)	4.0MP (2592×1520)	4.0MP (2592×1520)	5.0MP (2592×1944)	5.0MP (2592×1944)
<b>Min. illumination</b>	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR
<b>Lens</b>	2.8mm/4mm	2.8mm	2.8mm	2.8mm/4mm	2.8mm	2.8mm	2.8mm/4mm	2.8mm
<b>Video compression</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Frame rate</b>	2304×1296@20fps	2304×1296@20fps	2304×1296@20fps	2560×1440@25fps	2560×1440@25fps	2560×1440@25fps	2592×1944@20fps	2592×1944@20fps
<b>WDR</b>	Digital WDR	Digital WDR	Digital WDR	120dB	120dB	120dB	120dB	120dB
<b>Video Enhancement</b>	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
<b>Alarm Trigger</b>	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict
<b>VCA</b>	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter
<b>Audio I/O</b>	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in
<b>Alarm I/O</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Memory slot</b>	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB
<b>Reset Button</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>System compatibility</b>	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)
<b>IR LEDs</b>	2	2	8	2	2	8	2	2
<b>IR range</b>	Up to 50m	Up to 30m	Up to 30m	Up to 50m	Up to 30m	Up to 30m	Up to 50m	Up to 30m
<b>Warm Lights</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Power supply</b>	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)
<b>Protection Level</b>	IP67	IP67	IP67, IK10	IP67	IP67	IP67, IK10	IP67	IP67
<b>Working temperature</b>	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH
<b>Material</b>	Metal+Plastic	Metal+Plastic	Metal+Plastic	Default: Metal+Plastic; M: Metal	Default: Metal+Plastic; M: Metal	Metal+Plastic	Default: Metal+Plastic; M: Metal	Default: Metal+Plastic; M: Metal



Model	 TC-C35KS Spec: I3/E/Y/2.8mm	 TC-C38WS Spec: I5/E/Y/M/2.8mm TC-C38WS Spec: I5/E/Y/M/4mm	 TC-C38XS Spec: I3/E/Y/M/2.8mm	 TC-C38KS Spec: I3/E/Y/2.8mm	TC-C32UN Spec: I8/A/E/Y/M/2.8-12mm	TC-C32SN Spec: I3/A/E/Y/M/2.8-12mm	TC-C32MN Spec: I3/A/E/Y/M/2.8-12mm	 TC-C35US Spec: I8/A/E/Y/M/2.8-12mm
<b>Image sensor</b>	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.9" CMOS	1/2.9" CMOS	1/2.9" CMOS	1/2.8" CMOS
<b>Max. image resolution</b>	5.0MP (2592×1944)	8.0MP (3840×2160)	8.0MP (3840×2160)	8.0MP (3840×2160)	2.0MP (1920×1080)	2.0MP (1920×1080)	2.0MP (1920×1080)	5.0MP (2592×1944)
<b>Min. illumination</b>	Color: 0.002Lux@ (F1.6, ACG ON) B/W: 0Lux with IR	Color: 0.01Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.01Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.01Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.02Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.02Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.02Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR
<b>Lens</b>	2.8mm	2.8mm/4mm	2.8mm	2.8mm	2.8-12mm	2.8-12mm	2.8-12mm	2.8-12mm
<b>Video compression</b>	S+265/H.265/H.264	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Frame rate</b>	2592×1944@20fps	3840×2160@20fps	3840×2160@20fps	3840×2160@20fps	1920×1080@30fps	1920×1080@30fps	1920×1080@30fps	2592×1944@20fps
<b>WDR</b>	120dB	120dB	120dB	120dB	Digital WDR	Digital WDR	Digital WDR	120dB
<b>Video Enhancement</b>	BLC/3D DNR/HLC	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
<b>Alarm Trigger</b>	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, Disk Full, Disk R/W Error, IP Address Conflict, MAC Address Conflict, FTP Server Exception	Motion Detection, Mask Alarm, Disk Full, Disk R/W Error, IP Address Conflict, MAC Address Conflict, FTP Server Exception	Motion Detection, Mask Alarm, Disk Full, Disk R/W Error, IP Address Conflict, MAC Address Conflict, FTP Server Exception	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict
<b>VCA</b>	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter
<b>Audio I/O</b>	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in
<b>Alarm I/O</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Memory slot</b>	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB
<b>Reset Button</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>System compatibility</b>	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)
<b>IR LEDs</b>	8	2	2	8	4	2	18	4
<b>IR range</b>	Up to 30m	Up to 50m	Up to 30m	Up to 30m	Up to 80m	Up to 30m	Up to 30m	Up to 80m
<b>Warm Lights</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Power supply</b>	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)
<b>Protection Level</b>	IP67, IK10	IP67	IP67	IP67, IK10	IP67	IP67	IP67, IK10	IP67
<b>Working temperature</b>	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH
<b>Material</b>	Metal+Plastic	Metal	Metal	Metal+Plastic	Metal	Metal	Metal	Metal

Model	 TC-C35SS Spec: I3/A/E/Y/M/2.8-12mm	 TC-C35MS Spec: I3/A/E/Y/M/2.8-12mm	 TC-C32DP Spec: W/E/Y/4mm	 TC-C32FP Spec: W/E/Y/2.8mm	 TC-C34UP Spec: W/E/Y/M/4mm	 TC-C34SP Spec: W/E/Y/M/2.8mm	 TC-C32WN Spec: I5/Y/WIFI/4mm	 TC-C32KN Spec: I3/Y/WIFI/2.8mm
<b>Image sensor</b>	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/2.9" CMOS	1/2.9" CMOS
<b>Max. image resolution</b>	5.0MP (2592×1944)	5.0MP (2592×1944)	2.0MP (1920×1080)	2.0MP (1920×1080)	4.0MP (2560×1440)	4.0MP (2560×1440)	2.0MP (1920×1080)	2.0MP (1920×1080)
<b>Min. illumination</b>	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.0004Lux@ (F1.0, ACG ON), B/W: 0Lux with LED on	Color: 0.0008Lux@ (F1.6, ACG ON), B/W: 0Lux with LED on	Color: 0.0002Lux@ (F1.0, ACG ON), B/W: 0Lux with LED on	Color: 0.0004Lux@ (F1.6, ACG ON), B/W: 0Lux with LED on	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR	Color: 0.02Lux@ (F2.0, ACG ON), B/W: 0Lux with IR
<b>Lens</b>	2.8-12mm	2.8-12mm	4mm	2.8mm	4mm	2.8mm	4mm	2.8mm
<b>Video compression</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Frame rate</b>	2592×1944@20fps	2592×1944@20fps	1920×1080@30fps	1920×1080@30fps	2560×1440@25fps	2560×1440@25fps	1920×1080@30fps	1920×1080@30fps
<b>WDR</b>	120dB	120dB	Digital WDR	Digital WDR	120dB	120dB	Digital WDR	Digital WDR
<b>Video Enhancement</b>	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
<b>Alarm Trigger</b>	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict	Motion Detection, Mask Alarm, IP Address Conflict
<b>VCA</b>	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	Tripwire/Perimeter	N/A	N/A
<b>Audio I/O</b>	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in	Mic in
<b>Alarm I/O</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Memory slot</b>	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	N/A	N/A	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB	Built-in MicroSD card slot, up to 512 GB
<b>Reset Button</b>	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes
<b>System compatibility</b>	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, CGI (IE), P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)	ONVIF (Profile S/T/G), SDK, Milestone, P2P (Mutually exclusive with Profile G)
<b>IR LEDs</b>	2	18	N/A	N/A	N/A	N/A	2	8
<b>IR range</b>	Up to 30m	Up to 30m	N/A	N/A	N/A	N/A	Up to 50m	Up to 30m
<b>Warm Lights</b>	N/A	N/A	4 pcs, 20~30m	1 pcs, 10~15m	4 pcs, 20~30m	2 pcs, 15~20m	N/A	N/A
<b>Power supply</b>	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%, PoE (802.3af)	DC 12V±25%	DC 12V±25%
<b>Protection Level</b>	IP67	IP67, IK10	IP67	IP66	IP67	IP67	IP67	IP67, IK10
<b>Working temperature</b>	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH
<b>Material</b>	Metal	Metal	Metal+Plastic	Metal+Plastic	Metal	Metal	Metal+Plastic	Metal+Plastic












Model	 4k STARLIGHT	 4k STARLIGHT	 COLOR MAKER	 SUPER STARLIGHT	 SUPER STARLIGHT	 FACE RECOGNITION	 FACE RECOGNITION	 PEOPLE COUNTING
TC-C38SS Spec: I5/A/E/Y/MH/2.7-13.5mm	TC-C38MS Spec: I5/A/E/Y/MH/2.7-13.5mm	TC-C32UP Spec: W/E/Y/MH/4mm	TC-C34LP Spec: I8/A/E/Y/MH/2.7-13.5mm	TC-C34MP Spec: I5/A/E/Y/MH/2.7-13.5mm	TC-A32E4 Spec: 1/E/12mm	TC-A32F4 Spec: 1/E/6mm	TC-A32P6 Spec: E/4mm	
<b>Image sensor</b>	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
<b>Max. image resolution</b>	8.0MP (3840×2160)	8.0MP (3840×2160)	2.0MP (1920×1080)	4.0MP (2560×1440)	4.0MP (2560×1440)	2.0MP (1920×1080)	2.0MP (1920×1080)	2.0MP (1920×1080)
<b>Min. illumination</b>	Color: 0.01Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.01Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.0004Lux@ (F1.0, ACG ON), B/W: 0Lux with LED ON	Color: 0.0004Lux@ (F1.2, ACG ON), B/W: 0Lux with IR	Color: 0.0008Lux@ (F1.85, ACG ON), B/W: 0Lux with IR	Color: 0.01Lux@ (F2.0, ACG ON), B/W: 0Lux with IR	Color: 0.005Lux@ (F1.6, ACG ON)	Color: 0.002Lux@ (F1.6, ACG ON)
<b>Lens</b>	2.7-13.5mm	2.7-13.5mm	4mm	2.7-13.5mm	2.7-13.5mm	12mm	6mm	4mm
<b>Video compression</b>	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264
<b>Frame rate</b>	PAL: 20fps (3840×2160, 3072×2048), 25fps (2560×1440, 2304×1296, 1920×1080, 1280×720) NTSC: 20fps (3840×2160, 3072×2048), 30fps (2560×1440, 2304×1296, 1920×1080, 1280×720)	PAL: 20fps (3840×2160, 3072×2048), 25fps (2560×1440, 2304×1296, 1920×1080, 1280×720) NTSC: 20fps (3840×2160, 3072×2048), 30fps (2560×1440, 2304×1296, 1920×1080, 1280×720)	PAL: 50fps (1920×1080, 1280×720, 704×576, 640×480) NTSC: 60fps (1920×1080, 1280×720, 704×480, 640×480)	PAL: 25fps (2560×1440, 2304×1296), 50fps (1920×1080, 1280×720) NTSC: 30fps (2560×1440, 2304×1296), 60fps (1920×1080, 1280×720)	PAL: 25fps (2560×1440, 2304×1296), 50fps (1920×1080, 1280×720) NTSC: 30fps (2560×1440, 2304×1296), 60fps (1920×1080, 1280×720)	PAL: 25fps (1920×1080, 1280×960, 1280×720, 704×576, 640×480) NTSC: 30fps (1920×1080, 1280×960, 1280×720, 704×480, 640×480)	PAL: 25fps (1920×1080, 1280×960, 1280×720, 704×576, 640×480) NTSC: 30fps (1920×1080, 1280×960, 1280×720, 704×480, 640×480)	PAL: 25fps (1920×1080, 1280×720, 704×480, 640×480) NTSC: 30fps (1920×1080, 1280×720, 704×480, 640×480)
<b>Streams</b>	3	3	3	3	3	3	3	3
<b>WDR</b>	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
<b>Video Enhancement</b>	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Crowded, People Counting, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Face Capture(Face Detection), Safety Helmet Detection, Human/Vehicle Classification	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Crowded, People Counting, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Face Capture(Face Detection), Safety Helmet Detection, Human/Vehicle Classification	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Crowded, People Counting, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Face Capture(Face Detection), Safety Helmet Detection, Human/Vehicle Classification	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Crowded, EW, People Counting, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Face Capture(Face Detection), Safety Helmet Detection, Human/Vehicle Classification	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Crowded, EW, People Counting, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Face Capture(Face Detection), Safety Helmet Detection, Human/Vehicle Classification	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Face Detection, On Duty Detection, Video Abnormal, Audio Abnormal	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Face Detection, On Duty Detection, Video Abnormal, Audio Abnormal	People Counting
<b>Face Capture/Recognition</b>	Face Capture Mode	Face Capture Mode	Face Capture Mode	Face Capture Mode	Face Capture Mode	Face Capture/Recognition Mode	Face Capture/Recognition Mode	N/A
<b>Audio I/O</b>	1/1, Mic in	1/1, Mic in	1/1, Mic in	1/1, Mic in	1/1, Mic in	1/1	1/1, Mic in	1/1
<b>Alarm I/O</b>	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
<b>Memory slot</b>	Built-in Micro SD card slot, up to 512 GB	Built-in Micro SD card slot, up to 512 GB	Built-in Micro SD card slot, up to 512 GB	Built-in Micro SD card slot, up to 512 GB	Built-in Micro SD card slot, up to 512 GB	N/A	N/A	Built-in Micro SD card slot, up to 512 GB
<b>System compatibility</b>	ONVIF (PROFILE S/T/G), SDK, Milestone. CGI, P2P	ONVIF (PROFILE S/T/G), SDK, Milestone. CGI, P2P	ONVIF (PROFILE S/T/G), SDK, Milestone. CGI, P2P	ONVIF (PROFILE S/T/G), SDK, Milestone. CGI, P2P	ONVIF (PROFILE S/T/G), SDK, Milestone. CGI, P2P	ONVIF (PROFILE S/T/G), SDK, Milestone. CGI, P2P	ONVIF (PROFILE S/T/G), SDK, Milestone. CGI, P2P	ONVIF (PROFILE S/T/G), SDK, Milestone. CGI, P2P
<b>IR LEDs</b>	2	18	N/A	4	14	2	N/A	N/A
<b>IR range</b>	Up to 50m	Up to 50m	N/A	Up to 80m	Up to 50m	Up to 30m	N/A	N/A
<b>Warm Lights</b>	N/A	N/A	4 pcs, 20~30m	N/A	N/A	N/A	N/A	N/A
<b>Power supply</b>	DC12V±25%/PoE	DC12V±25%/PoE	DC12V±25%/PoE	DC12V±25%/PoE	DC12V±25%/PoE	DC12V±25%/PoE	DC12V±25%/PoE	DC12V±25%/PoE
<b>Protection Level</b>	IP67	IP67, IK10	IP67	IP67	IP67, IK10	IP67	IP66	IP66
<b>Working temperature</b>	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-40°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH
<b>Material</b>	Metal	Metal	Metal	Metal	Metal	Metal+Plastic	Metal	Metal+Plastic

# IPC Ultra




Ultra-Line is the high-end product line, where 2MP/5MP bullet and dome camera with fixed/varifocal lens and 12MP fisheye camera are available. Ultra line, equipped with “Super Starlight” technology, early warning function as well as video analytics, is widely used in medium and large business projects.

## Key Features

- EW
- Human/Vehicle Classification
- Built-in Mic& Speaker
- Super Starlight 3.0
- S<sup>+</sup>265
- Video Analysis
- Mic in/Audio in

Model	 SUPER STARLIGHT	 SUPER STARLIGHT FACE RECOGNITION	 SUPER STARLIGHT FACE RECOGNITION
TC-C32BG Spec: I5W/E/4mm	TC-A32L4 Spec: 1/A/E/2.8-12mm	TC-A32M4 Spec: 1/A/E/2.8-12mm	
<b>Image sensor</b>	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
<b>Max. image resolution</b>	2.0MP (1920×1080)	2.0MP (1920×1080)	2.0MP (1920×1080)
<b>Min. illumination</b>	Color: 0.0002Lux@ (F1.0, ACG ON), B/W: 0Lux with IR	Color: 0.0004Lux@ (F1.3, ACG ON), B/W: 0Lux with IR	Color: 0.0004Lux@ (F1.3, ACG ON)
<b>Lens</b>	4mm	2.8-12mm	2.8-12mm
<b>Video compression</b>	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG
<b>Frame rate</b>	1920×1080@30fps	1920×1080@30fps	1920×1080@30fps
<b>WDR</b>	120dB	120dB	120dB
<b>Video Enhancement</b>	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format
<b>Operation Mode</b>	Intelligent Monitoring Mode	Face recognition/Face capture/Intelligent Monitoring Mode	Face recognition/Face capture/Intelligent Monitoring Mode
<b>EWarning</b>	Yes	Yes	Yes
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Video Abnormal, Audio Abnormal	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Face Detection, On Duty Detection, Video Abnormal, Audio Abnormal	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Face Detection, On Duty Detection, Video Abnormal, Audio Abnormal
<b>Audio I/O</b>	1/1, Mic in	1/1, Mic in	1/1, Mic in
<b>Alarm I/O</b>	1/0	2/1	2/1
<b>Memory slot</b>	Built-in Micro SD card slot, up to 128 GB	Built-in Micro SD card slot, up to 128 GB	Built-in Micro SD card slot, up to 128 GB
<b>System compatibility</b>	ONVIF (PROFILE S), SDK, CGI, P2P	ONVIF (PROFILE S), SDK, CGI, P2P	ONVIF (PROFILE S), SDK, CGI, P2P
<b>IR LEDs</b>	2	2	N/A
<b>IR range</b>	Up to 50m	Up to 50m	N/A
<b>White LEDs</b>	2	3	18
<b>Power supply</b>	DC12V±20%/PoE	DC12V±20%/PoE	DC12V±20%/PoE
<b>Waterproof&amp; dustproof</b>	IP67	IP67	IP67, IK10
<b>Working temperature</b>	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH



Model	 STARLIGHT TC-C35BQ Spec: I5/W/E/4mm	 STARLIGHT TC-A38N5 Spec: 0/A/10-47mm	 STARLIGHT TC-NC1261
<b>Image sensor</b>	1/2.8" CMOS	1/1.8" CMOS	1/1.7" CMOS
<b>Max.image resolution</b>	5.0MP (2592×1944)	8.0MP (3840×2160)	12.0MP (4000×3072)
<b>Min. illumination</b>	Color: 0.002Lux@ (F1.6, ACG ON), B/W: 0Lux with IR	Color: 0.01Lux@ (F1.35, ACG ON)	Color: 0.05Lux@ (F2.8, ACG ON), B/W: 0Lux with IR
<b>Lens</b>	4mm	10-47mm	1.98mm
<b>Video compression</b>	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG
<b>Frame rate</b>	2560×1920@20fps	3840×2160@30fps	4000×3072@20fps
<b>WDR</b>	120dB	120dB	Digital WDR
<b>Video Enhancement</b>	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC/Corridor Format	BLC/3D DNR/HLC
<b>Operation Mode</b>	Intelligent Monitoring Mode	Face capture/Intelligent Monitoring Mode	Intelligent Monitoring Mode
<b>EWarning</b>	Yes	N/A	Yes
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Video Abnormal, Audio Abnormal	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Crowded, People Counting, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Face Capture(Face Detection), Safety Helmet Detection, Human/Vehicle Classification	Tripwire, Double Tripwire, Perimeter, Video Abnormal, Audio Abnormal, Heat Map
<b>Audio I/O</b>	1/1, Mic in	1/1	1/1, Mic in
<b>Alarm I/O</b>	1/0	1/1	2/1
<b>Memory slot</b>	Built-in Micro SD card slot, up to 128 GB	Built-in Micro SD card slot, up to 128 GB	Built-in Micro SD card slot, up to 128 GB
<b>System compatibility</b>	ONVIF (PROFILE S), SDK, CGI, P2P	ONVIF (PROFILE S/T), SDK, CGI, P2P	ONVIF (PROFILE S), SDK, CGI, P2P
<b>IR LEDs</b>	2	N/A	3
<b>IR range</b>	Up to 50m	N/A	Up to 20m
<b>White LEDs</b>	2	6, up to 45m	N/A
<b>Power supply</b>	DC12V±20%/PoE	AC24V±25%	DC12V±10%/AC24V±25%/PoE
<b>Waterproof&amp;dustproof</b>	IP67	IP67	IP66, IK10
<b>Working temperature</b>	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH	-35°C~65°C, 0~95% RH

## Thermal Camera

Tiandy thermal camera adopts uncooled vanadium oxide focal plane detector, which has high temperature measurement accuracy and good imaging effect. Combined with dual lens, thermal and optical lens, and Tiandy's advanced algorithm, Tiandy thermal camera can achieve functions like temperature measurement, fire detection, EWarning and multi-VCA functions and be widely used in airport, station, border, harbor and other occasions with high security requirements.







### Key Features

- Thermal& Optical Bi-Spectrum
- Built-in Mic& Speaker
- Supports EWarning
- Video Analysis
- Audio/Alarm I/O

Model	 SUPER STARLIGHT TC-C34LP Spec: I5/E/T/4mm	 SUPER STARLIGHT TC-H358M Spec: 44X/IT/A
<b>Thermal Sensor Type</b>	Vanadium Oxide Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled Focal Plane Arrays
<b>Thermal Length</b>	Fixed, 3.2mm	Fixed 50mm
<b>Resolution</b>	256×192	384×288
<b>Pixel Interval</b>	12μm	17μm
<b>Response Waveband</b>	8μm~14μm	8μm~14μm
<b>NETD</b>	≤50mK@25°C, F1.1, 25Hz	≤40mK@f/1.0
<b>Measurement Range</b>	30°C (86°F)~45°C (113°F)	-
<b>Thermal FOV</b>	Horizontal: 51°, Vertical: 38.2°	Horizontal: 7.5°, Vertical: 5.6°
<b>Measurement Accuracy</b>	±0.5°C, ±0.3°C with Blackbody	-
<b>Main Stream(Thermal)</b>	25fps (1280×960, 1024×768, 640×480, 256×192)	PAL: 25fps (384×288) NTSC: 30fps (320×288)
<b>Image sensor</b>	1/1.8"	1/1.8"
<b>Resolution</b>	4.0MP (2560×1440)	5.0MP (3072×1728)
<b>Frame Rate</b>	PAL: 25fps (2560×1440, 1920×1080, 1280×720, 704×576) NTSC: 25fps (2560×1440, 1920×1080, 1280×720, 704×576)	PAL: 25fps (3072×1728), 50fps (2560×1440, 2304×1296, 1920×1080, 1280×720, 704×576, 640×480) NTSC: 30fps (3072×1728), 60fps (2560×1440, 2304×1296, 1920×1080, 1280×720, 704×480, 640×480)
<b>Min. illumination</b>	Color: 0.0002Lux@ (F1.0, ACG ON), B/W: 0Lux with IR	Color: 0.001lux@ (F1.6, ACG ON), BW: 0lux with IR
<b>WDR</b>	120dB	140dB
<b>Optical Zoom</b>	N/A	44x
<b>Video Enhancement</b>	BLC/3D DNR/HLC	BLC/3D DNR/HLC
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Video Abnormal, Audio Abnormal	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Heatmap, Video Abnormal, Crowd, Audio Abnormal, Demographics(People Counting), On Duty Detection, Safety Helmet Detection, Auto tracking, Face Capture, Early Warning, Fire Detection, Temperature Alarm
<b>Audio I/O</b>	1/1, Mic in	1/1
<b>Alarm I/O</b>	2/1	8/2
<b>Memory slot</b>	Built-in MicroSD card slot, up to 256 GB	Built-in Micro SD card slot, up to 256 GB
<b>System compatibility</b>	ONVIF (PROFILE S), SDK, CGI, P2P	ONVIF (PROFILE S/T), SDK, CGI, P2P
<b>IR LEDs</b>	N/A	11 pcs, 200m
<b>White LEDs</b>	1	2
<b>Power supply</b>	DC12V±20%/PoE	AC24V±15%
<b>Waterproof&amp;dustproof</b>	IP67	IP67
<b>Working temperature</b>	10°C~30°C	-40°C~70°C (IR OFF), -40°C~40°C (IR ON), 0-95%RH







<b>Model</b>	 TC-A3563 Spec: 44X/I/A	 TC-H358M Spec: 44X/II/A	 TC-A35555 Spec: 0/A/6mm/9-54mm	 TC-A35555 Spec: 0/A/2.8-12mm/9-54mm	 TC-H389M Spec: 44X/LW/P/A	 TC-H3169M Spec: 44X/LW/P/A	
<b>Image sensor</b>	1/1.8"	1/1.8"	PTZ-bullet: 1/1.8" Speed Dome: 1/1.8"	PTZ-bullet: 1/1.8" Speed Dome: 1/1.8"	1/1.8"	1/1.8"	
<b>Resolution</b>	5.0MP (3072×1728)	5.0MP (3072×1728)	5.0MP/5.0MP (3072×1728)	5.0MP/5.0MP (3072×1728)	8.0MP (4096×1800)	16.0MP (8192×1800)	
<b>Frame Rate</b>	PAL: 20fps (3072×1728), 25fps (2560×1440, 2304×1296), 50fps (1920×1080, 1280×960, 1280×720) NTSC: 20fps (3072×1728), 30fps (2560×1440, 2304×1296), 60fps (1920×1080, 1280×960, 1280×720)	PAL: 25fps (3072×1728), 50fps (2560×1440, 2304×1296, 1920×1080, 1280×720, 704×576, 640×480) NTSC: 30fps (3072×1728), 60fps (2560×1440, 2304×1296, 1920×1080, 1280×720, 704×480, 640×480)	PTZ-bullet: 3072×1728@20fps Speed Dome: 3072×1728@20fps	PTZ-bullet: 3072×1728@20fps Speed Dome: 3072×1728@20fps	PTZ Camera: 1920×1080@60fps Panaromic Camera: 4096×1800@30fps	PTZ Camera: 1920×1080@60fps Panaromic Camera: 8192×1800@30fps	
<b>Min. illumination</b>	Color: 0.0008Lux@ (F1.6, ACG ON)	Color: 0.001lux@ (F1.6, ACG ON), BW: 0lux with IR	PTZ-bullet: Color: 0.0008Lux@ (F1.0, ACG ON), BW: 0lux with IR Speed Dome: Color: 0.0008Lux@ (F1.35, ACG ON), BW: 0lux with IR	PTZ-bullet: Color: 0.0008Lux@ (F1.36, ACG ON), BW: 0lux with IR Speed Dome: Color: 0.0008Lux@ (F1.35, ACG ON), BW: 0lux with IR	Color: 0.0008Lux@ (F1.5, ACG ON)	Color: 0.0008Lux@ (F1.5, ACG ON)	
<b>WDR</b>	140dB	140dB	PTZ-bullet: 120dB Speed Dome: 140dB	PTZ-bullet: 120dB Speed Dome: 140dB	140dB	140dB	
<b>Optical Zoom</b>	44×	44×	Speed Dome: 6×	PTZ-bullet: 4× Speed Dome: 6×	44×	44×	
<b>Digital Zoom</b>	16×	16×	16×	16×	16×	16×	
<b>Video Compression</b>	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	S+265/H.265/H.264/M-JPEG	
<b>Cruise</b>	16, up to 32 presets per cruise	16, up to 32 presets per cruise	Speed Dome: 16, up to 32 presets per cruise	Speed Dome: 16, up to 32 presets per cruise	16, up to 32 presets per cruise	16, up to 32 presets per cruise	
<b>Presets</b>	500	500	PTZ-bullet: 256 Speed Dome: 500	PTZ-bullet: 256 Speed Dome: 500	500	500	
<b>Auto-Tracking</b>	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Early Warning (EW)</b>	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Video Enhancement</b>	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Face Detection, People Counting, Crowded, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Safety Helmet Detection	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Heatmap, Video Abnormal, Crowd, Audio Abnormal, People Counting, On Duty Detection, Safety Helmet Detection, Auto tracking, Face Capture	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Heatmap, Video Abnormal, Crowd, Audio Abnormal, People Counting, On Duty Detection, Safety Helmet Detection, Auto tracking, Face Capture	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Heatmap, Video Abnormal, Crowd, Audio Abnormal, People Counting, On Duty Detection, Safety Helmet Detection, Auto tracking, Face Capture	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Face Detection, People Counting, Crowded, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Safety Helmet Detection	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Face Detection, People Counting, Crowded, On Duty Detection, Video Abnormal, Audio Abnormal, Heatmap, Safety Helmet Detection	
<b>Audio I/O</b>	1/1	1/1	2 Mic, 1/1	2 Mic, 1/1	1/1	1/1	
<b>Alarm I/O</b>	8/2	8/2	1/1	3/2	8/2	8/2	
<b>Memory slot</b>	Built-in Micro SD card slot, up to 128 GB	Built-in Micro SD card slot, up to 256 GB	Built-in Micro SD card slot, up to 512 GB	Built-in Micro SD card slot, up to 512 GB	Built-in Micro SD card slot, up to 128 GB	Built-in Micro SD card slot, up to 128 GB	
<b>System compatibility</b>	ONVIF (PROFILE S), SDK, CGI, P2P	ONVIF (PROFILE S/T), SDK, CGI, P2P	ONVIF (PROFILE S/T/G), SDK, CGI, P2P	ONVIF (PROFILE S/T/G), SDK, CGI, P2P	ONVIF (PROFILE S), SDK, CGI, P2P	ONVIF (PROFILE S), SDK, CGI, P2P	
<b>IR LEDs</b>	8 pcs, 180m	11 pcs, 200m	6 pcs, 100m	6 pcs, 100m	N/A	N/A	
<b>White LEDs</b>	2	2	4 pcs, 30m	4 pcs, 30m	4	4	
<b>Laser</b>	N/A	Yes, 800m	N/A	N/A	Yes, 500m	Yes, 500m	
<b>Power supply</b>	AC24V±15%	AC24V±15%	AC24V±15%, DC24V±10%	AC24V±15%, DC24V±10%	AC24V±15%	AC24V±15%	
<b>Waterproof&amp;dustproof</b>	IP66	IP67	IP66	IP66	IP66	IP66	
<b>Working temperature</b>	-30°C~65°C, 0-95%RH	-40°C~70°C (IR OFF), -40°C~40°C (IR ON), 0-95%RH	-40°C~70°C, 0-95%RH	-40°C~70°C, 0-95%RH	-30°C~65°C, 0~95% RH	-30°C~65°C, 0~95% RH	





# NVR Lite






Tiandy Lite N NVR provide most cost efficient choice for video surveillance system, main market of which is distribution market. Where IP camera at 2MP resolution are popular, Lite N series products will be the best choice. Lite K series NVR also face to distribution market. Models in Lite K series provide a most cost-efficient true 4K system, they are the most suitable products for regions, where IP camera at 5MP or 8MP resolution are popular. Lite H series NVR face to small business market. Powerful ability of this series could cover most of requirements in small projects. The price of the Lite series pays for the performance of the Pro series.

## Key Features








- **S+265**
- **Lite K 1×8MP decoding**
- **Lite H 4×8MP decoding**
- **EWarning**
- **P2P connection**

<b>Model</b>	 TC-R3105 Spec: WIFI	 TC-R3105 Spec: I/B/P	 TC-R3110 Spec: I/B/P8
<b>Video Input</b>	5-ch	5-ch	10-ch
<b>Decoding Format</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Input/output Bandwidth</b>	50Mbps/40Mbps	50Mbps/40Mbps	50Mbps/40Mbps
<b>Recording Resolution</b>	6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
<b>Decoding</b>	1×6MP, 1×5MP, 1×4MP, 1×3MP, 4×1080P, 5×720P, 5×4CIF	1×6MP, 1×5MP, 1×4MP, 1×3MP, 4×1080P, 5×720P, 5×4CIF	1×6MP, 1×5MP, 1×4MP, 2×3MP, 4×1080P, 8×720P, 10×4CIF
<b>HDD (SATA)</b>	1 HDD	1 HDD	1 HDD
<b>RAID</b>	N/A	N/A	N/A
<b>POE</b>	N/A	4×RJ45 self-adaptive 10/100 Mbps network interfaces	8×RJ45 self-adaptive 10/100 Mbps network interfaces
<b>Audio Input</b>	N/A	1-ch, 3.5mm	1-ch, 3.5mm
<b>Audio Output</b>	1×RCA	1×RCA	1×RCA
<b>Alarm I/O</b>	N/A	0/1	0/1
<b>HDMI/VGA</b>	1/1	1/1	1/1
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Early warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera
<b>Network Interface</b>	1×RJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface
<b>Power supply</b>	DV12V, ≤18W (without HDD)	DC48V, ≤20W (without HDD)	DC48V, ≤20W (without HDD)
<b>Working temperature</b>	-10 °C~ 55 °C, 10%~90%RH	-10 °C~ 55 °C, 10%~90%RH	-10 °C~ 55 °C, 10%~90%RH
<b>Chassis</b>	1U	1U	1U

<b>Model</b>	 TC-R3105 Spec: I/B/P4/K	 TC-R3110 Spec: I/B/P8/K	 TC-R3120 Spec: I/B/P8/K	 TC-R3210 Spec: I/B/P8/K	 TC-R3220 Spec: I/B/P8/K	 TC-R3220 Spec: I/B/P16/K
<b>Video Input</b>	5-ch	10-ch	20-ch	10-ch	20-ch	20-ch
<b>Decoding Format</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Input/output Bandwidth</b>	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	120Mbps/100Mbps	120Mbps/100Mbps	120Mbps/100Mbps
<b>Recording Resolution</b>	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
<b>Decoding</b>	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 5×720P, 5×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 10×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 20×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 10×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 20×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 20×4CIF
<b>HDD (SATA)</b>	1 HDD	1 HDD	1 HDD	2 HDDs	2 HDDs	2 HDDs
<b>RAID</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>POE</b>	4×RJ45 self-adaptive 10/100 Mbps network interfaces	8×RJ45 self-adaptive 10/100 Mbps network interfaces	8×RJ45 self-adaptive 10/100 Mbps network interfaces	8×RJ45 self-adaptive 10/100 Mbps network interfaces	8×RJ45 self-adaptive 10/100 Mbps network interfaces	16×RJ45 self-adaptive 10/100 Mbps network interfaces
<b>Audio Input</b>	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm
<b>Audio Output</b>	1×RCA	1×RCA	1×RCA	1×RCA	1×RCA	1×RCA
<b>Alarm I/O</b>	4/1	4/1	4/1	4/1	4/1	4/1
<b>HDMI/VGA</b>	1/1	1/1	1/1	1/1	1/1	1/1
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Safety Helmet Detection, People Counting, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face capture camera, Parking guard, License Plate Recognition
<b>Network Interface</b>	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface
<b>Power supply</b>	DC48V, ≤20W (without HDD)	DC48V, ≤20W (without HDD)	DC48V, ≤20W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)
<b>Working temperature</b>	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH
<b>Chassis</b>	1U	1U	1U	1U	1U	1U

<b>Model</b>	 TC-R3220 Spec: I/B/P/H	 TC-R3105 Spec: I/B/V2.0	 TC-R3110 Spec: I/B/V2.0	 TC-R3120 Spec: I/B/V2.0	 TC-R3105 Spec: I/B/K
<b>Video Input</b>	20-ch	5-ch	10-ch	20-ch	5-ch
<b>Decoding Format</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Input/output Bandwidth</b>	200Mbps/200Mbps	50Mbps/40Mbps	50Mbps/40Mbps	80Mbps/80Mbps	80Mbps/80Mbps
<b>Recording Resolution</b>	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
<b>Decoding</b>	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 20×720P, 20×4CIF	1×6MP, 1×5MP, 1×4MP, 1×3MP, 4×1080P, 5×720P, 5×4CIF	1×6MP, 1×5MP, 1×4MP, 1×3MP, 4×1080P, 8×720P, 10×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 20×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 5×720P, 5×4CIF
<b>HDD (SATA)</b>	2 HDDs	1 HDD	1 HDD	1 HDD	1 HDD
<b>RAID</b>	N/A	N/A	N/A	N/A	N/A
<b>POE</b>	16×RJ45 self-adaptive 10/100 Mbps network interfaces	N/A	N/A	N/A	N/A
<b>Audio Input</b>	1-ch, 3.5mm	N/A	N/A	N/A	1-ch, 3.5mm
<b>Audio Output</b>	1×RCA	1×RCA	1×RCA	1×RCA	1×RCA
<b>Alarm I/O</b>	0/1	N/A	N/A	N/A	4/1
<b>HDMI/VGA</b>	1/1	1/1	1/1	1/1	1/1
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, People Counting
<b>Network Interface</b>	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface
<b>Power supply</b>	100~240V AC, 50~60 Hz, ≤25W (without HDD)	DC12V 3.33A, ≤10W (without HDD)	DC12V 3.33A, ≤10W (without HDD)	DC12V 3.33A, ≤10W (without HDD)	DC12V 3.33A, ≤10W (without HDD)
<b>Working temperature</b>	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH	-10℃~55℃, 10%~90%RH
<b>Chassis</b>	1U	1U	1U	1U	1U



Model	 LITE-K	 LITE-K	 LITE-K	 LITE-K	 LITE-H	 LITE-H	 LITE-H
TC-R3110 Spec: I/B/K	TC-R3120 Spec: I/B/K	TC-R3210 Spec: I/B/K	TC-R3220 Spec: I/B/K	TC-R3240 Spec: I/B/N/H	TC-R3420 Spec: I/B/N/H/C	TC-R3440 Spec: I/B/N/H/C	
<b>Video Input</b>	10-ch	20-ch	10-ch	20-ch	40-ch	20-ch	40-ch
<b>Decoding Format</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Input/output Bandwidth</b>	80Mbps/80Mbps	80Mbps/80Mbps	120Mbps/100Mbps	120Mbps/100Mbps	320Mbps/320Mbps	200Mbps/200Mbps	200Mbps/200Mbps
<b>Recording Resolution</b>	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
<b>Decoding</b>	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 10×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 20×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 10×4CIF	1×8MP, 1×6MP, 1×5MP, 2×4MP, 2×3MP, 4×1080P, 8×720P, 20×4CIF	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P, 40×4CIF	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 20×720P, 20×4CIF	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P, 40×4CIF
<b>HDD (SATA)</b>	1 HDD	1 HDD	2 HDDs	2 HDDs	2 HDDs	4 HDDs	4 HDDs
<b>RAID</b>	N/A	N/A	N/A	N/A	N/A	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10
<b>POE</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Audio Input</b>	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm
<b>Audio Output</b>	1×RCA	1×RCA	1×RCA	1×RCA	1×RCA	1×RCA	1×RCA
<b>Alarm I/O</b>	4/1	4/1	4/1	4/1	16/4	N/A	N/A
<b>HDMI/VGA</b>	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition
<b>Network Interface</b>	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces
<b>Power supply</b>	DC12V 3.33A, ≤10W (without HDD)	DC12V 3.33A, ≤10W (without HDD)	DC12V 3.33A, ≤10W (without HDD)	DC12V 3.33A, ≤10W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)
<b>Working temperature</b>	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH
<b>Chassis</b>	1U	1U	1U	1U	1U	1.5U	1.5U

# NVR Pro&Ultra

Pro & Ultra series face to SMB project. It could be used as an item, which could control the tender due to their powerful index of interfaces and bandwidth. Tiandy NVR provide 25% more access than regular products, which enables plug and play, automatically adds IPC, quickly plots without configuration and supports one button to enable S+265 to save 50% of storage space than H.265. In addition, it automatically matches the screen's optimal resolution, and supports up to 64 channels of simultaneous preview and 16 channels of 1080p video playback.

## Key Features

- **S+265**
- **Pro 4×8MP decoding**
- **EWarning**
- **Plug and play**
- **P2P connection**

Model	 PoE PRO	 PoE PRO	 PoE PRO	 PoE PRO
TC-R3210 Spec: I/B/P8/H	TC-R3220 Spec: I/B/P8/H	TC-R3220 Spec: I/B/P16/H	TC-R3420 Spec: I/B/P16/H	
<b>Video Input</b>	10-ch	20-ch	20-ch	20-ch
<b>Decoding Format</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Input/output Bandwidth</b>	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
<b>Recording Resolution</b>	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
<b>Decoding</b>	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 10×1080P, 10×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 20×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 20×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 20×720P
<b>HDD (SATA)</b>	2 HDDs	2 HDDs	2 HDDs	4 HDDs
<b>eSATA</b>	N/A	N/A	N/A	N/A
<b>RAID</b>	N/A	N/A	N/A	JBOD,RAID0/1/5/6/10
<b>POE</b>	8xRJ45 self-adaptive 10/100 Mbps network interfaces	8xRJ45 self-adaptive 10/100 Mbps network interfaces	16xRJ45 self-adaptive 10/100 Mbps network interfaces	16xRJ45 self-adaptive 10/100 Mbps network interfaces
<b>Audio Input</b>	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm
<b>Audio Output</b>	1×RCA	1×RCA	1×RCA	1×RCA
<b>Alarm I/O</b>	16/4	16/4	16/4	16/4
<b>HDMI/VGA</b>	1/1	1/1	1/1	1/1
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition
<b>Network Interface</b>	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface
<b>Power supply</b>	100~240V AC, 50~60 Hz, ≤25W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)	100~240V AC, 50~60 Hz, ≤25W (without HDD)
<b>Working temperature</b>	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH
<b>Chassis</b>	1U	1U	1U	1.5U

Model						
Video Input	40-ch	20-ch	40-ch	20-ch	40-ch	80-ch
Decoding Format	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
Input/output Bandwidth	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Decoding	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 20×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 20×720P	2×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P	2×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P
HDD (SATA)	4 HDDs	4 HDDs	4 HDDs	8 HDDs	8 HDDs	8 HDDs
eSATA	N/A	N/A	N/A	1	1	1
RAID	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10
POE	16xRJ45 self-adaptive 10/100 Mbps network interfaces	N/A	N/A	N/A	N/A	N/A
Audio Input	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm
Audio Output	1×RCA	1×RCA	1×RCA	1×RCA, 1×3.5mm, 1×BNC	1×3.5mm, 1×BNC	1×3.5mm, 1×BNC
Alarm I/O	16/4	16/4	16/4	16/4	16/4	16/4
HDMI/VGA	1/1	1/1	1/1	2/2	2/2	2/2
VCA	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, Safety Helmet Detection, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera
Network Interface	1xRJ45 self-adaptive 10/100/1000 Mbps network interface	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces
Power supply	100~240V AC, 50~60 Hz, ≤25W (without HDD)	DC12V 5A, ≤40W (without HDD)	DC12V 5A, ≤40W (without HDD)	AC100~240V, 50/60HZ, ≤80W (without HDD)	AC100~240V, 50/60HZ, ≤80W (without HDD)	AC100~240V, 50/60HZ, ≤100W (without HDD)
Working temperature	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH
Chassis	1.5U	1.5U	1.5U	2U	2U	2U

Model						
Video Input	40-ch	40-ch	80-ch	40-ch	80-ch	80-ch
Decoding Format	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
Input/output Bandwidth	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Decoding	2×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P	3×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P	2×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P	2×12MP, 4×8MP, 4×6MP, 5×5MP, 8×4MP, 9×3MP, 16×1080P, 32×720P
HDD (SATA)	8 HDDs	8 HDDs	8 HDDs	16 HDDs	16 HDDs	16 HDDs
eSATA	1	1	1	1	1	1
RAID	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10	JBOD,RAID0/1/5/6/10
POE	N/A	N/A	N/A	N/A	N/A	N/A
Audio Input	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm
Audio Output	1×3.5mm, 1×BNC	1×3.5mm, 1×BNC	1×3.5mm, 1×BNC	1×3.5mm, 1×BNC	1×3.5mm, 1×BNC	1×3.5mm, 1×BNC
Alarm I/O	16/4	16/4	16/4	16/4	16/4	16/4
HDMI/VGA	2/2	2/2	2/2	2/2	2/2	2/2
VCA	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera
Network Interface	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces
Power supply	AC100~240V, 50/60HZ, ≤100W (without HDD)	AC100~240V, 50/60HZ, ≤100W (without HDD), Redundant Power Supply	AC100~240V, 50/60HZ, ≤100W (without HDD)	AC100~240V, 50/60HZ, ≤100W (without HDD)	AC100~240V, 50/60HZ, ≤100W (without HDD)	AC100~240V, 50/60HZ, ≤100W (without HDD), Redundant Power Supply
Working temperature	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH	-10°C~55°C, 10%~90%RH
Chassis	2U	2U	2U	3U	3U	3U




# AI NVR

Based on deep learning technology, Tiandy NVR has face recognition function for cameras with/without facial capture function, which is widely used in hospitals, gas stations, super-markets for attendance and personnel identification. With the Tiandy face capture camera, multi-channel face recognition can be achieved with higher accuracy. Tiandy offers a variety of face recognition devices. The 5-way AI NVR provides a cost-efficient face recognition solution. If you need a higher performance face recognition NVR, there are up to 16 pictures steam AI NVRs to choose.

## Key Features

- S+265
- Face Recognition
- EWarning
- Human/Vehicle Classification

Model	 FACE	 FACE	 RAID  FACE	 RAID  FACE
<b>Video Input</b>	5-ch	10-ch	20-ch	40-ch
<b>Decoding Format</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Input/output Bandwidth</b>	80Mbps/80Mbps	80Mbps/80Mbps	400Mbps/200Mbps	400Mbps/200Mbps
<b>Recording Resolution</b>	6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	12MP/8MP/5MP/4MP/1080p/960p/720p/D1/2CIF/CIF	12MP/8MP/5MP/4MP/1080p/960p/720p/D1/2CIF/CIF
<b>Decoding</b>	1×5MP, 1×4MP, 3×1080P, 5×720P, 10×4CIF	1×5MP, 1×4MP, 3×1080P, 5×720P, 10×4CIF	2×12MP, 3×4K, 5×5MP, 7×4MP, 15×1080P, 30×720P, 20×4CIF	2×12MP, 3×4K, 5×5MP, 7×4MP, 15×1080P, 30×720P, 40×4CIF
<b>HDD (SATA)</b>	1 HDD	2 HDDs	8 HDDs	8 HDDs
<b>eSATA</b>	N/A	N/A	1	1
<b>RAID</b>	N/A	N/A	JBOD,RAID0/1/5/10	JBOD,RAID0/1/5/10
<b>POE</b>	N/A	N/A	N/A	N/A
<b>Audio Input</b>	N/A	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm
<b>Audio Output</b>	N/A	1×RCA	1×3.5mm, 1×BNC	1×3.5mm, 1×BNC
<b>Alarm I/O</b>	N/A	0/1	16/4	16/4
<b>HDMI/VGA</b>	1/1	1/1	2/2	2/2
<b>Face Library/Pictures</b>	300/100,000	300/100,000	300/100,000	300/100,000
<b>Face Recognition Capability</b>	1 Video Stream 5 Picture Steam	1 Video Stream 5 Picture Steam	8 Video Stream 16 Picture Steam	8 Video Stream 16 Picture Steam
<b>VCA</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Auto tracking, People Counting, Compatible with Face capture camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Parking, Early Warning, Crowd, On Duty Detection, Video Abnormal, Audio Abnormal, Compatible with Face recognition camera, Heatmap, Auto tracking, People Counting, Compatible with Face capture camera, Parking guard, License Plate Recognition
<b>Network Interface</b>	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces	2xRJ45 self-adaptive 10/100/1000 Mbps network interfaces
<b>Power supply</b>	DC12V 3.33A, ≤10W (without HDD)	DC12V 3.33A, ≤10W (without HDD)	AC100~240V, 50/60HZ, ≤100W (without HDD)	AC100~240V, 50/60HZ, ≤100W (without HDD)
<b>Working temperature</b>	-10 °C~55 °C, 10%~90% RH	-10 °C~55 °C, 10%~90% RH	-10 °C~55 °C, 10%~90% RH	-10 °C~55 °C, 10%~90% RH
<b>Chassis</b>	1U	1U	2U	2U

# XVR

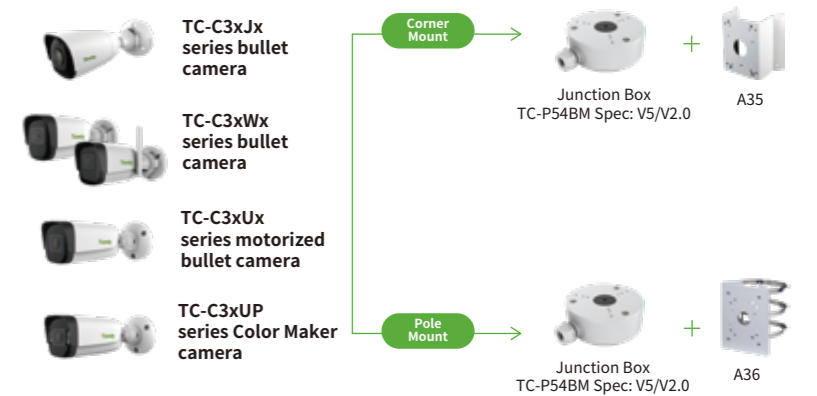
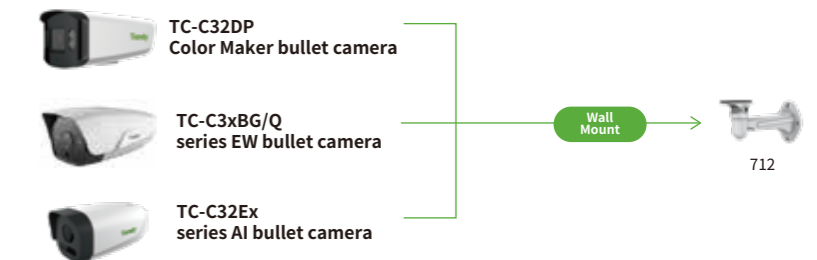
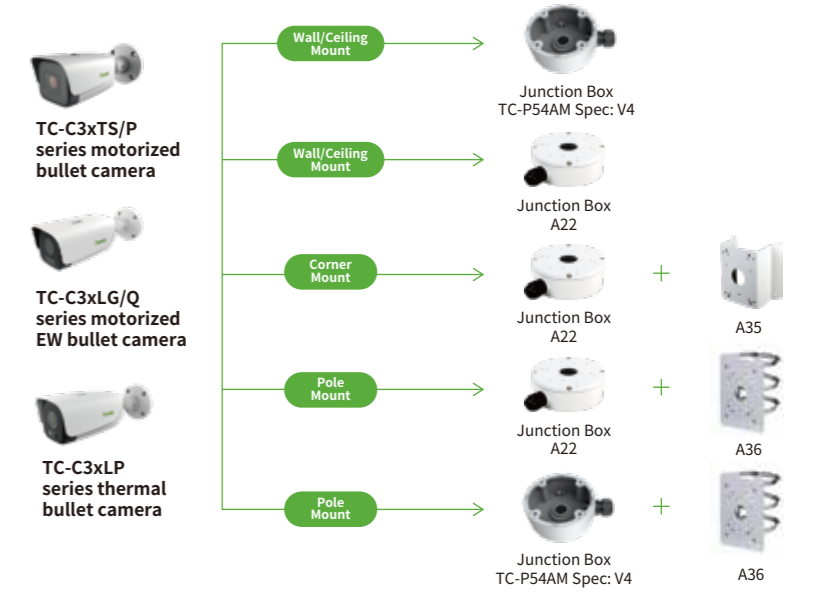
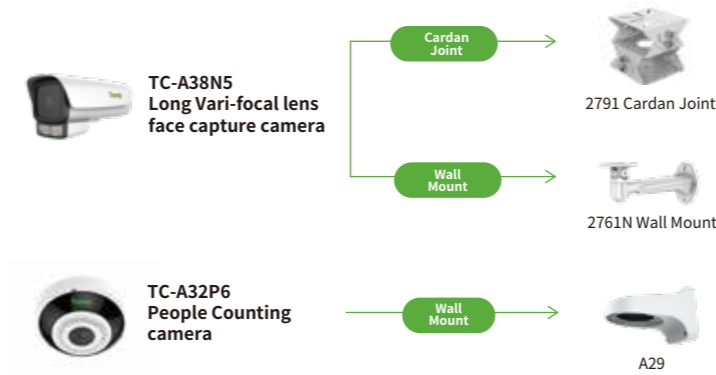
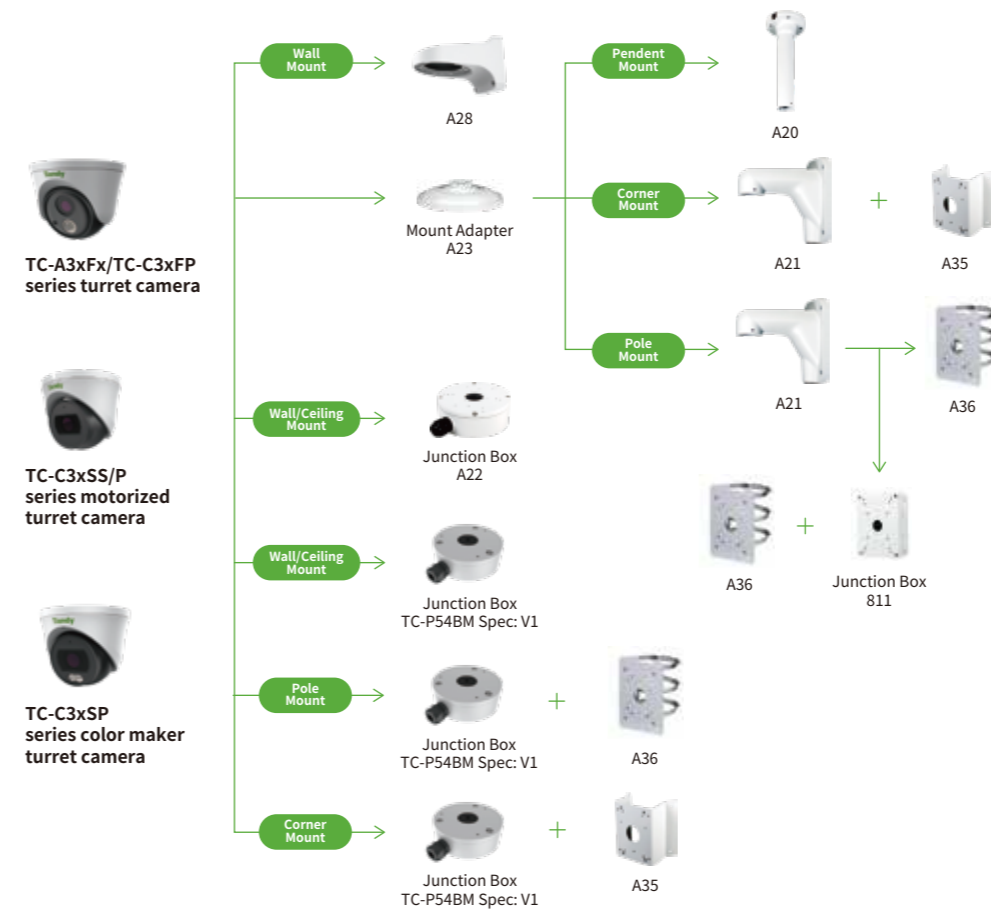
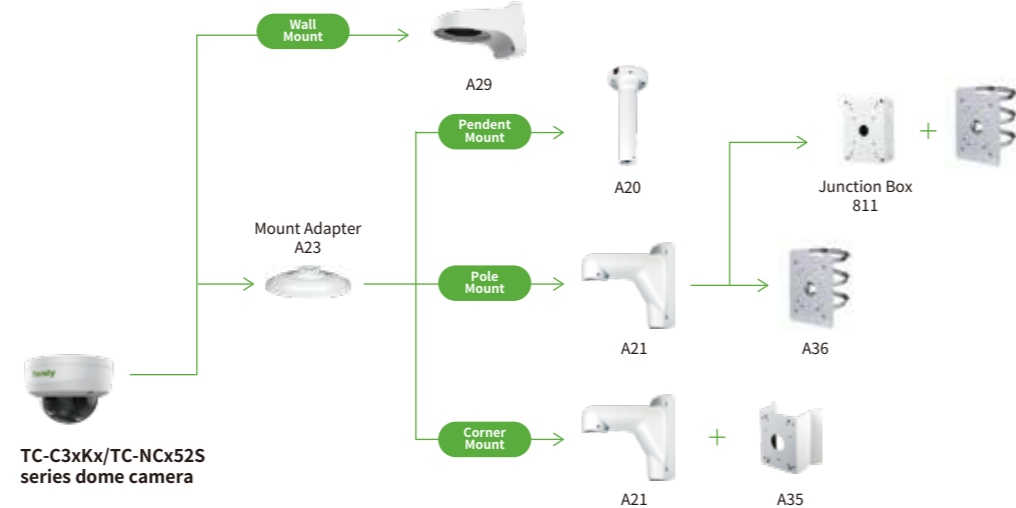
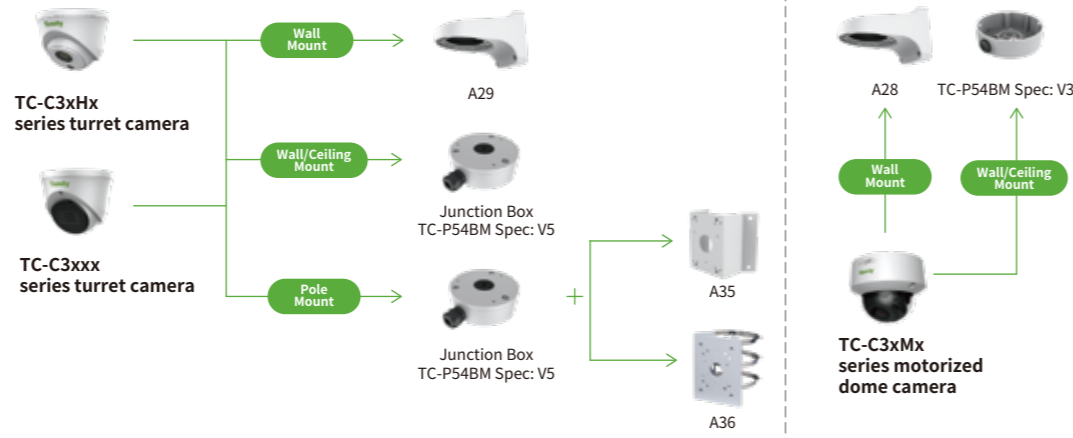
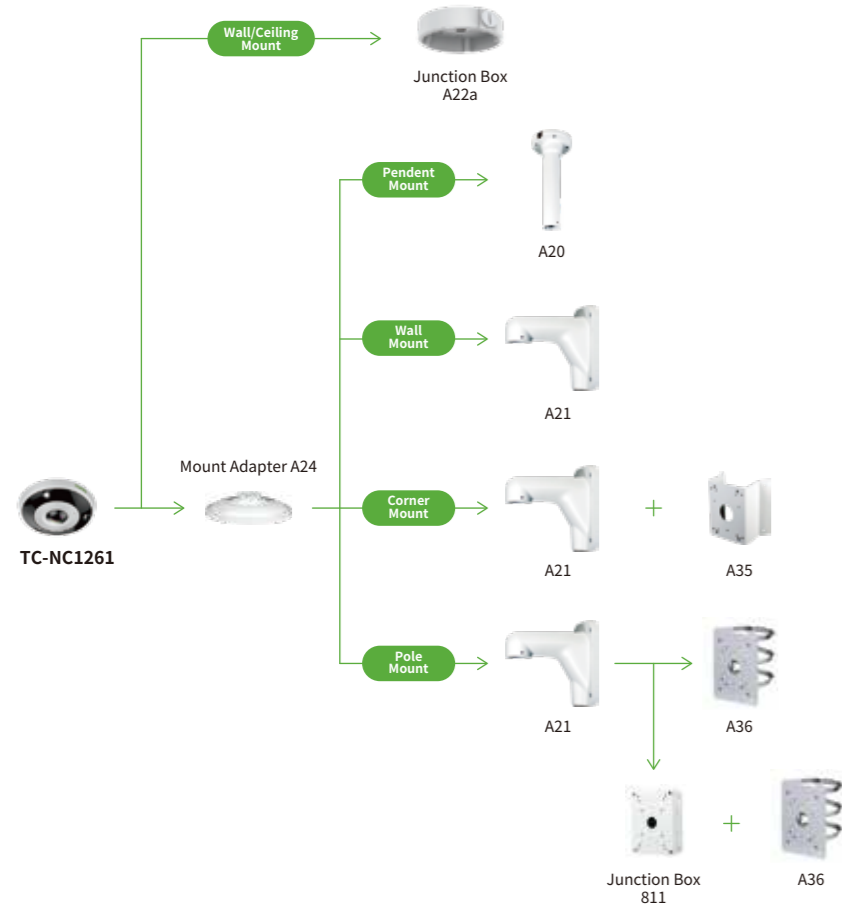
Tiandy 5 in 1 XVR support 5 signal types input: TVI, CVI, AHD, CVBS and IP. They could support resolution up to 4K, not only the IP cameras, but also HD analog cameras. Besides VCA functions are also supported by these models, that will provide more value for analog system. Tiandy XVR could be widely used in modification current analog system to HD analog system or hybrid system in a low cost.

## Key Features

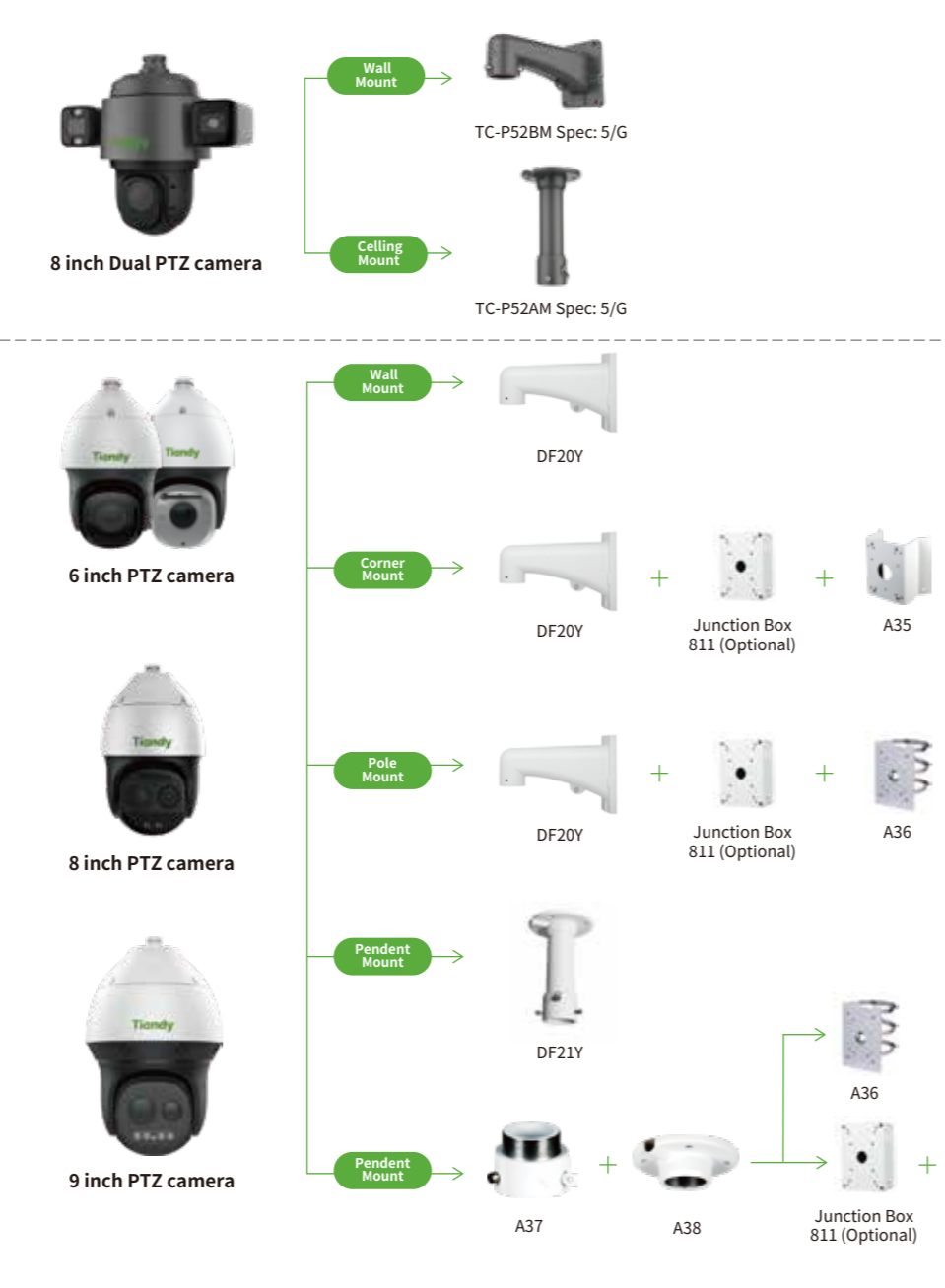
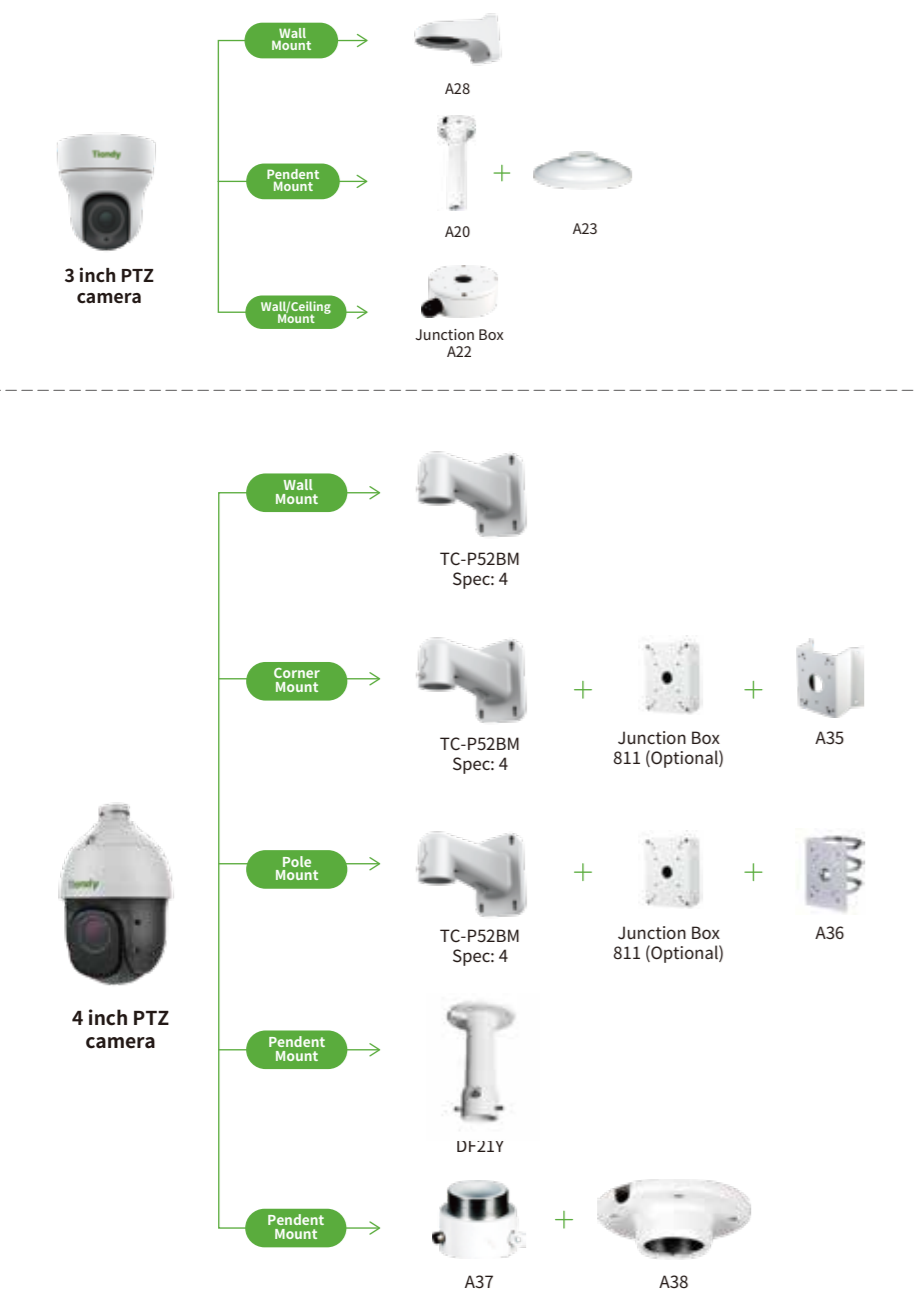
- 5 in 1
- 4K
- Integrated with VCA
- H.265 compression
- 2×10TB HDD

Model	 TC-R3204 Spec:I/B/X	 TC-R3208 Spec:I/B/X	 TC-R3216 Spec:I/B/X
<b>Signal type</b>	5 in 1 TVI/CVI/AHD/CVBS/IP	5 in 1 TVI/CVI/AHD/CVBS/IP	5 in 1 TVI/CVI/AHD/CVBS/IP
<b>Video Input</b>	4-ch BNC, 4-ch IP (up to 8-ch)	8-ch BNC, 8-ch IP (up to 16-ch)	16-ch BNC, 16-ch IP (up to 32-ch)
<b>Encoding Format</b>	H.265/H.264	H.265/H.264	H.265/H.264
<b>Decoding Format</b>	S+265/H.265/H.264	S+265/H.265/H.264	S+265/H.265/H.264
<b>Input/output Bandwidth</b>	80Mbps/80Mbps	128Mbps/128Mbps	128Mbps/128Mbps
<b>Recording Resolution</b>	8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
<b>Preview</b>	1×4K, 1×5MP, 2×4MP, 4×1080P, 8×720P	2×4K, 3×5MP, 4×4MP, 8×1080P, 16×720P	4×4K, 6×5MP, 8×4MP, 16×1080P, 32×720P
<b>HDD (SATA)</b>	2 HDDs	2 HDDs	2 HDDs
<b>Audio Input</b>	4-ch, RCA	4-ch, RCA	4-ch, RCA
<b>Audio Output</b>	1-ch, 3.5mm	1-ch, 3.5mm	1-ch, 3.5mm
<b>Alarm I/O</b>	4/1	8/4	16/4
<b>HDMI/VGA</b>	1/1	1/1	1/1
<b>VCA (analog channels)</b>	Tripwire, Double Tripwire, Video Abnormal, Audio Abnormal (Supports analog 1 to 4-ch)	Tripwire, Double Tripwire, Video Abnormal, Audio Abnormal (Supports analog 1 to 4-ch)	Tripwire, Double Tripwire, Video Abnormal, Audio Abnormal (Supports analog 1 to 4-ch)
<b>VCA (IP channels)</b>	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, On Duty Detection, Crowded Detection, Video Abnormal, Audio Abnormal, Face Detection, Auto-tracking, Demographics, Early Warning	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, On Duty Detection, Crowded Detection, Video Abnormal, Audio Abnormal, Face Detection, Auto-tracking, Demographics, Early Warning	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Lost, Loitering, Running, On Duty Detection, Crowded Detection, Video Abnormal, Audio Abnormal, Face Detection, Auto-tracking, Demographics, Early Warning
<b>BNC Interface</b>	4	8	16
<b>Network Interface</b>	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface	1xRJ45 self-adaptive 10/100 Mbps network interface
<b>Power supply</b>	DC12V, ≤10W (without HDD)	DC12V, ≤20W (without HDD)	DC12V, ≤25W (without HDD)
<b>Working temperature</b>	-10 °C~55 °C, 10%~90%RH	-10 °C~55 °C, 10%~90%RH	-10 °C~55 °C, 10%~90%RH
<b>Chassis</b>	1U	1U	1U

# Mount Accessories







# Tiandy Naming Rules V3.0

Network Camera									
example:	TC-C32WN Spec:I5/E/Y/4mm		2MP IR Mini Bullet Camera						
Company	Product	Resolution	Type	Effect	Light supplement	Functions	Lens	Version	
TC-	C	3	W	N	Spec: I5	E/Y	I4mm		
Tiandy Product	C- IP Camera	Overseas model	2- 2MP	A- Box	N- Normal	N/A- NO IR	E- PoE	2mm	N/A: V1.0
	A- AI IPC		3- 3MP	B/D/E/W- Fix Bullet	S- Starlight	I2- 20m IR	A- ABF/Motorized	2.8mm	V2.0: V2.0
			4- 4MP	F/H/X- Fix Turret	P- Super Starlight	I3- 30m IR	C- Eco series	3.6mm	
			5- 5MP	G- Mini Bullet	U- Super Starlight V3.0	I5- 50m IR	J- Distortion correction	4mm	
			8- 8MP	J- Metal Mini Bullet	X- Super Starlight V4.0	I8- 80m IR	D - SDI	6mm	
			12- 12MP	K- Mini Dome	V- Normal EW	W- White Light	YX: Super Mini	8mm	
				L/T/U- VF Bullet	Q- Starlight EW		Y- Audio	2.8-12mm	
				M- VF Dome	G- Super Starlight V3.0 EW		0- ST series	2.7-13.5mm	
				N- Longrange Bullet	T- Super Starlight V4.0 EW		1- KS series		
				P- Super Mini	2- Face Capture		2- TD series		
				Q- Fisheye	4- Face Recognition		WIFI - Wifi		
				S- VF Turret	6- People Counting		T- Thermal		
							M- Metal housing		
							H- Full interfaces		
							N- Cable Free		

PTZ Camera									
example:	TC-H358M Spec: 44X/I/L/A		5MP 44X Super Starlight IR Laser EW PTZ Camera						
Company	Product	Resolution	Size	Effect	Zoom	Light supplement	Functions	version	
TC-	H	3	8	M	Spec: 44X	IL	A		
Tiandy Product	H- PTZ	Overseas model	2- 2MP	S- Starlight	04- 4x	I- IR	E- POE	N/A: V1.0	
	A- Face Capture PTZ		3- 3MP	P- Super Starlight	20- 20x	L- Laser	E+- POE+	V2.0: V2.0	
			5- 5MP	U- Super Starlight V3.0	25- 25x	W- White Light	E++- POE++		
			8- 8MP	X- Super Starlight V4.0	30- 30x	N/A- Speed	P- Panoramic		
			16- 16MP	Q- Starlight EW	33- 33x	T- Thermal	A- Auto-tracking		
				M- Super Starlight EW	44- 44x	L- Laser	V- Intelligent		
				G- Super Starlight V3.0 EW	63- 63x		C- Eco series		
				T- Super Starlight V4.0 EW			4G- Support 4G		
				3- Face Capture					
				5- Video Structure					

NVR									
example:	TC-R3220 Spec:I/B/P/16/K		H.265 20ch 2HDD POE NVR						
Company	Product	Hard Drive	Input	Structure Type	VCA	Functions	version		
TC-	R	2	20	Spec: I	B	P16 / K			
Tiandy Product	NVR	Overseas model	1- 1HDD	I- Internal HDD Installation	B- Basis	N/A- Default	N/A: V1.0		
			2- 2HDD	E- External HDD Installation	C- Car	P- POE	V2.0: V2.0		
			4- 4HDD		F- Face	C- Eco series			
			8- 8HDD			K- 4K Decoding			
			16- 16HDD			H- Enhanced			
			24- 24HDD			N- Multiple network ports			
						R- Redundant Power			
						X- XVR			