

# TC-NH3204IE

H.265 2MP 4x Starlight Mini EW IR POE PTZ

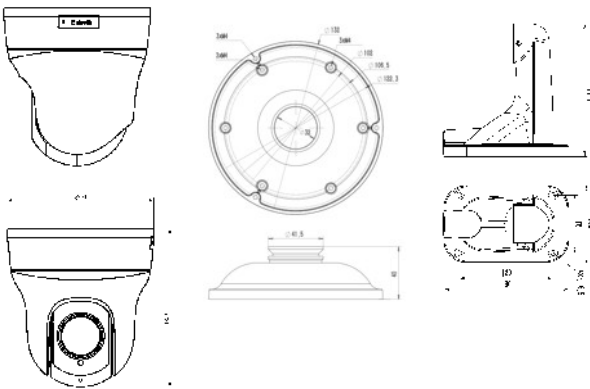
# Tiandy



## Features

- S+265 compression
- Early Warning(EW)
- IR LED+White Light+Speaker
- Starlight Ultra Low Light 0.002lux
- Up to 1920×1080@30fps
- Mechanical WDR 140dB
- Min. Illumination Color: 0.002 Lux, B/W: 0.001 Lux, 0 Lux with IR
- VCA Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Early warning/Crowd/Audio Abnormal Detection/Video Abnormal Detection
- Smart IR, IR Range: 50m
- Speed Max 60°/s, -2~90° Tilt Angle
- Optical Zoom: 4x, Digital Zoom: 16x
- Built-in Gyro and Support Image Auto-flip
- Interface Built-in Mic, Built-in Speaker, Audio in/out 1/1, Alarm in/out 2/1, MicroSD Card Slot, up to 128GB, Reset Button
- Support Wifi
- Operating Conditions -10°C-50°C, 0~95% RHG
- TVS 6000V, Lightning/Surge 4000V Protection, Indoor IP65
- CE, FCC, RoHS

## Dimensions



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Model: A21+A23



Camera	
Image Sensor	1/2.8" CMOS
Effective Pixels	1920(H)x1080(V)
Signal System	PAL/NTSC
Minimum Illumination	Color: 0.002Lux@(F1.6, 50 IRE, ICR off) Black&White:0.001Lux@ (F1.6,50 IRE, ICR ON) 0 lux with IR
White Balance	Auto/ ATW/ Manual
AGC	Auto/Manual
S/N Ratio	≥ 55dB
BLC	Y
HLC	Y
Smart Defog	Y
WDR	140dB
Digital Noise Reductio	3D DNR
Exposure Mode	Auto/ Manual
Shutter Time	1/1s~1/100000s
Day& Night	IR Cut Filter with Auto Switch
Digital Zoom	16x
Privacy Masking	24 Privacy Mask Programmable; Optional Multiple Colors
Auto Focus	Auto/ Semi-automatic/ Manual
OSD	Size:16×16, 32×32, 24×24, 48×48, 64×64 Letters, Week, Date, Time, Total 5 Regions
S/N Ratio	>60dB
Lens	
Focal Length	2.8-12mm, 4x
Zoom Speed	Approx.5s(Optical Wide-Tele)
Angle of View	104°(w)~30°(t)
Minimum Working Dis	0.5-1m(Wide-Tele)
Aperture Range	F1.4-F2.8
Pan & Tilt	
Pan Range	355° Endless
Pan Speed	Pan Manual Speed: 0.1° -60°/s, Pan Preset Speed: 60°/s
Preset Accuracy	±0.2°
Tilt Range	-2°-90° (Auto Flip )
Tilt Speed	Tilt Manual Speed: 0.1°-60°/s, Tilt Preset Speed: 60°/s
Proportional Zoom	Rotation Speed Can Be Adjusted Automatically According to Zoom
3D Position	Y
Number of Preset	500
Scan	8
Cruise	8, up to 32 Presets per Cruise
Pattern	8, Each One With 600s Memory or 300 Orders
Power loss recovery	Y
Guard Action	Preset/ Cruise/ Pattern/ Scan
PTZ Position Display	Y
Freeze Frame	Y
RS-485 Protocols	DOME_PELCO_D, DOME_PELCO_P, DOME_PLUS
Infrared	
IR Irradiation Distance	50m
IR Irradiation Angle	Adjustable by Zoom
Interface	
Audio Input	1-ch Mic in(Line in Interface)
Audio Output	Built-in Speaker
Ethernet	1-ch RJ45 10W 100M
Alarm Input	2-ch
Alarm Output	1-ch
On-board Storage	MicroSD Card Slot, up to 128GB
BNC&RS-485	Y
Extension	N/A
Network	
Ethernet	10Base -T/100Base-TX RJ45 Connector
Max.Image Resolution	1920×1080
Main Stream	1920×1080@25/30fps; 1280×960@25/30fps; 1280×720@25/30fps; 640×480@25/30fps;
Sub Stream	704×576@25/30fps;704×480@25/30fps; 704×288@25/30fps;704×240@25/30fps;
Third Stream	352×240@25/30fps; 352×288@25/30fps;
Image Compression	H.265/H.264 High Profile/MJPEG
ROI Encoding	8 Dynamic Areas with Adjustable Levels
Audio Compression	G711A/G711U/ADPCM/AAC
Protocols	IPV4/IPV6/HTTP/802.1x/FTP/SMTP/UPnP/SNMP/DNS/DDNS /NTP/RTSP/TCP/UDP/DHCP/PPPoE/HTTPS/ARP/RTP/QoS/MULITCAST/I CMP/IGMP

CE FC RoHS

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<b>Remote Connection</b>	5 Users Access at the Same Time
<b>User Permission</b>	Up to 32 Users, 4 Levels
<b>Security Measures</b>	User Authentication (ID and PW), Host Authentication (MAC Address) IP Address Filtering
<b>Web Browser</b>	CHROME V45 or lower, IE, FIREFOX
<b>System Compatibility</b>	ONVIF (Profile S), SDK
<b>Advance</b>	
<b>Early Warning(EW)</b>	When the target break into the area and trigger alarm, enable the speaker to warn, and flashing white light for frightening
<b>Video Analytics</b>	Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Object Lost/Running/Loitering/Parking/Crowd Audio Abnormal Detection/Vdeo Abnormal Detection
<b>Intelligent Alarm</b>	Harsh Voice Alarm, Motion Ddetection, Mask Alarm, Port Alarm Network Disable Alarm, IP Conflict, MAC Conflict Detection
<b>Language</b>	English,Spanish,Korean,Italian,Turkish,Thai,Russian, Traditional Chinese,Simplified Chinese,Polish,French
<b>Operating Conditions</b>	-10°C-50°C, 0~95% RHG
<b>Power Supply</b>	DC12V/POE/AC24
<b>Power Consumption</b>	4.9W(IR OFF)/ 8.9W(IR ON )
<b>Circuit Protection</b>	TVS 6000V, Lightning/ Surge 4000V Protection
<b>Impact Protection</b>	Indoor IP65
<b>IR LEDs</b>	3pcs
<b>Wiper</b>	N/A
<b>Dimensions</b>	152.2mmx141mmx141mm
<b>Weight</b>	0.8KG (IP PTZ Only), 1.2KG (with Packing Box)
<b>S+265:</b>	Tiandy enhanced H.265 codec
<b>ANR:</b>	Auto store video in SD card when NVR disconnected, and upload video to NVR when resumed connection(Only Support Tiandy ANR NVR)

\* The latest product information / specification can be found at <http://en.tiandy.com/>

