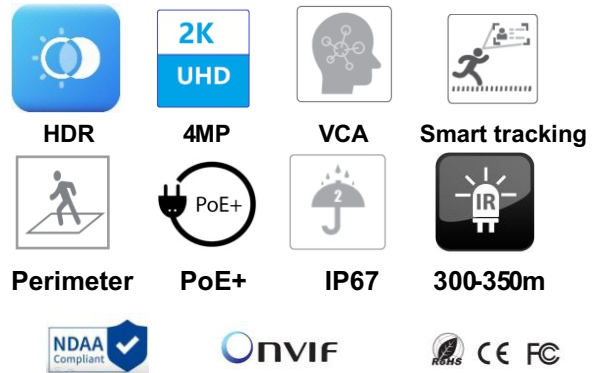




**UC-PT543 IE**



## System:

UC-PT543 IE, the 3rd gen 5inch AI PTZ camera series, which adopts a high quality 30x, optical zoom lens, and high computing AI SOC, could deliver excellent 2560×1440@30fps image details over a wide open area. The PTZ camera can detect max 15 objects per scene and classify human/vehicles from 2m to 873m/1086m/1429m separately in radius. When any of them intrude restricted area, the camera will trace, zoom fit in center of screen, snap and record and trigger alarms until object disappeared, greatly improving surveillance efficiency.

The 5inch Gen3 PTZ improves many aspects to further utilize AI capacity. The revised gimbal system is up to 360°, which could automatically track express fast large objects at 300km/h within several miles distance. The rotation mechanics is enforced to endure over 10 millions times for long-time heavy usage. The 3<sup>rd</sup> gen PTZ adopts black-ray image and new stacked IR technology, which filter all the intrusive lights and focusing on human and vehicles themselves, thus it could track and recognize human details within hundreds of meters, challenging the most complex environment, whatever it is bright sun-shrine or in pitch black, snowy or rainy, strong headlights of cars and street lamps, etc.

With competitive price, excellent picture quality and strong protection, the camera could meet the demand of 7×24Hour working in harsh weather for professional surveillance market.

## Key Spec:

- Ultra fast rotation and tracking speed and over 10millions of tracking life circles.
- Superior low light performance
- Long IR supplement light distance
- 1.5Tops Deep-learning engine, support human/vehicles detection, auto-tracking
- IP67 Water immersion /true IK10 glass/6KV Surge protection,7x24H harsh weather
- Stable supply-chain, long product life circle
- Confirms to data protection regulations of major countries.

## Application:

Wide range area intrusion, perimeter protection and alarm and smart-tracking: such as airport, express way, parks, scenic spots, stations and venues, industrial park. Suggestion installation: at 5-10m in height.

<b>Camera Module</b>	<b>UC-PT543 IE(PE/30M/AR30)</b>		
Image sensor	1/2.8" progressive scan CMOS image sensor, BSI and NIR++,dual gain		
Max resolution	2560x1440		
Mini. Illumination	Color:0.01Lux@(F1.65, AGCON) B/W:0.002Lux@(F1.65, AGC ON); 0 Lux with IR		
Image setting	Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, etc. adjusted by client		
Shutter Speed	60Hz: 1/30s – 1/30,000s@30fps; 50Hz: 1/25s~1/25,000s@25fps		
White Balance	Auto/Manual/Indoor/Outdoor		
Gain control	Auto/Manual		
Day & Night control	Auto/Manual ,time schedule		
Iris control	Auto/Manual		
SNR	≥52dB		
3D DNR	Auto/Manual		
AE Enhancement	BLC, HLC, WDR		
Digital Zoom	8X		
EIS	N/A		
Privacy Mask	4mask. (Ver 5.1.3 update:24 programmable polygon privacy masks, color or mosaic configurable)		
Picture overlay	Logo picture could be overlaid on video with 128×128pixels, 24bits format		
OSD overlay	Max 15 characters/line, 8 lines, white or red font color		
<b>Lens</b>	<b>UC-PT543 IE(PE/30M/AR30)</b>		
Focus length	f=4.7-141mm, 30x optical zoom		
Zoom Speed	Approx. 4s		
Field of View (W-T,±5%)	Horizontal: 59.38°~ 2.28°; Vertical: 35.74°~ 1. 29°; Diagonal: 66.28°~2. 61°;		
Image distance	Wide: 1.0m ~ INF; tele: 1.5m ~ INF		
Aperture Range	F1.65-F4.70(W-T)		
Iris Type	DC_IRIS		
IRCut type	Removable IRCF, reflection type		
DORI table	Focus length	f=4.7mm	f=141mm
	Detect	106.6m(349.7f.t.)	2736m(8976 f.t.)
	Observe	42.3m(138.8 f.t.)	1085.7m(3562 f.t.)
	Recognize	21.3m(69.9 f.t.)	547.2m(1795.3f.t.)
	Identify	10.7m(35 f.t.)	273.6m(897.6f.t.)
<b>PTZ</b>			
Pan Range	360° endless		
Pan speed	Configurable, from 0.1~360%/s; Preset speed: 330%/s		
Tilt Range	From -25°to 155° auto flip at 90°		
Tilt Speed	Configurable, from 0.1~210%/s, Preset speed: 180%/s		
Proportional Zoom	Yes		
Preset	360		
Cruise	8 cruises, up to 16 presets (ver5.1.3 update:32presets) for each cruises		
Trace	4 traces, record time over 3 minutes(ver5.1.3 update: 10minutes) for each trace		
Power off memory	Support		
Action mode	Preset/Cruise/Trace/Auto Scan/Random Scan		
3D Positioning	Support		
PTZ status display	Support		
Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot		
<b>IR</b>	<b>UC-PT543 IE(PE/30M/AR30)</b>		
IR Distance	300m (984.3 f.t.)		
IR type	8pcs of 4W 855nm IR Array,4groups		

Smart IR	Yes
<b>Network</b>	
Main stream	50Hz: 25fps: 2560 × 1440, 1920×1080, 1280×960, 1280×720 ; 60Hz: 30fps: 2560×1440, 1920×1080, 1280×960, 1280×720
Sub stream	50Hz: 25fps (704 ×576, 640 ×480 , 352 ×288) ; 60Hz: 30fps (704 ×480, 640 ×480, 352 ×240)
Third Stream	50Hz: 25fps (1920 ×1080, 1280 ×960 , 1280 × 720, 704 ×576, 640 × 480, 352 ×288) 60Hz: 30fps (1920 ×1080, 1280 ×960, 1280 ×720, 704 ×480, 640 ×480, 352 ×240)
Video compression	H.265+/H.265/H.264+/H.264/MJPEG
H.264 Standard	H.264/AVC codec BP/MP/HP, Level 5.1
H.265 Standard	H.265/HEVC codec MP, level 5.0
Video Bit Rate	64 Kbps to 16Mbps
Audio compression	G.711 A/U
Audio Bit Rate	64K bps
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP,DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, DHCP, PPPoE, P2P, RTMP
User / Host	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering
API	ONVIF , support TVT SDK and third-party management platform
Client	TVT N9000 1.4.7, TVT NVMS 2.0; and the third-party client, free iOS and Android App
Web Browser	IE8-11 with plug-in; Edge, Chrome, Firefox with plugin free
<b>Smart Features</b>	
Basic event	Motion detection, Video tampering alarm, Exception(Network disconnected, IP address conflict, SD full, SD error)
Face recognize	(Default off, open per request)Face detection, capturing, comparison. Max 15 faces per scene
Road traffic	Vehicle detecting and tracking. CPL will be available at ver5.1.3
Smart Detection	Tripwire, Bi-directional tripwire, Illegal intrusion detection, Region entrance detection, Region exiting detection, etc. More VCA will be available at ver5.1.3
Smart Tracking	support smart tracking of human or vehicle ,auto/manual
<b>System Integration</b>	
Alarm Interface	1 Alarm input(Dry contact); 1 Alarm output
Audio Interface	1 audio input, line level, 2.0-2.4Vpp,impedance 1KΩ; 1 audio output, line level, impedance,600Ω
Alarm Linkage	Alarm actions, such as Preset, Cruise, Trace, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Email, etc.
Network Interface	1 RJ45 10M/100M Adaptive Ethernet ,Support PoE+
SD Card Slot	One MicroSD slot and chamber, up to 256G
Built-in Speaker& Mic	N/A
RS485	N/A
BNC	N/A
Reset button	Yes
Electric Heater & Fan	Yes
Water removal	Remove water-drops by quick spinning
Demist	Active electric heating and air loop
<b>General</b>	
<b>UC-PT543 IE(PE/30M/AR30)</b>	
languages	Czech; English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish(Mexico) , Simplified Chinese, Turkish, Traditional Chinese, etc.
Power supply	DC24V±25% 500mA(AC24V is N/A, per request) PoE+ (802.3.at), avg. 12W, max 24W, including IR 8W
Working condition	-40° C ~ 65° C(-40° F ~ 149° F), IR off; -40° C ~ 45° C, IR on; Cold start at - 30° C; 90%RH
Storage condition	-40° C ~ 70° C ; ≤ 95% RH
Protection	6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Shield Material	Aluminum Alloy(ADC12); Polymer(PC+GF15%)
Dimensions	Φ 197mm × 302mm (Φ7.8 inch × 11.9 inch )
Net Weight	Approx. 2.82 Kg (6.22 lb.)
Certification	IP67, IK10(including glass window), ROHS, CE, FC, KC, BIS, UKCA

**Dimension (mm/inch):**

