



FlexCam Speed PTZ Camera



EXTENDED REACH. INTELLIGENT TRACKING.

The **t1499** is a professional-grade 4MP Speed PTZ IP Camera engineered for high-performance surveillance in expansive and demanding environments. Its powerful **40x optical zoom lens** and **350m IR** allow precise identification over vast distances. Its **IP66/IK10 aluminum housing** ensures durable **24/7 operation in harsh weather**.

Deep-learning enables intelligent **human/vehicle tracking** for automated perimeter security. Utilizing **H.265+ compression**, it provides an efficient, professional solution for critical infrastructure.

Key Benefits



Maximized ROI

H.265 technology slashes storage and bandwidth costs by 50%. Deep-learning AI protects assets 24/7 by classifying targets up to 720m. A 10-million rotation life cycle ensures a stable, high-value investment.



Secure Intelligence

NDAA-compliant hardware features HTTPS encryption and 802.1x access control. Robust SDK and ONVIF support ensure seamless integration while adhering to global data protection regulations.



Rapid Deployment

PoE+ support and versatile mounting options simplify site installation. Automated maintenance via heaters and water-removal combined with high-speed tracking significantly reduce labor and maintenance costs.



FlexCam 4MP 40X 5" Speed PTZ IP Camera

Key Capabilities



40x Ultra-Optical Zoom

Equipped with a powerful 4.5mm–180mm lens, the camera delivers precise identification over large open areas with an impressive 40x optical zoom.



Deep-Learning AI Engine

The advanced AI engine classifies human and vehicle targets at distances up to 720m and can detect up to 17 objects simultaneously



Long-Range Smart Tracking

Supports autonomous tracking that follows, centers, and zooms in on human or vehicle targets when they intrude into restricted areas.



350m Evidence-Level Night Vision

The IR supplement light covers distances up to 350m, capturing clear human behavior and court-level evidence even in total darkness.



True Day/Night IR Cut Filter

A removable absorptive filter ensures vivid, accurate colors during the day and maximum light sensitivity for clear monochrome imaging at night.



Perimeter Protection & VCA

Integrated Video Content Analytics (VCA) include tripwire, illegal intrusion, and region entrance/exiting detection to secure critical boundaries.



Industrial-Grade Protection

Designed for 24/7 harsh weather operation with an IP66/IK10 rated housing and 6000V lightning and surge protection.



Active Environment Management

Features built-in electric heaters, fans, and a specialized water-removal function that uses quick spinning to clear droplets from the lens.

Technical Specifications

Specifications		t1499
Visible Light Module		
Image Sensor	1/2.8" progressive scan CMOS image sensor, with BSI and NIR++ Dual Gain	
Max. Resolution	4MP (2560 x 1440)	
Optical Zoom	40x (4.5mm to 180mm)	
Field of View (H x V)	Horizontal: 59.1°~ 1.8°; Vertical: 38.4°~ 1.1°; Diagonal: 68.9°~2.1°	
Min. Illumination	Color: 0.005 Lux @ (F1.2, AGC ON); B/W: 0.001 Lux; 0 Lux with IR	
Night Vision	850m IR distance	
PTZ Performance		
Pan / Tilt Range	360° Endless / -25° to 155° (auto flip)	
Manual Speed	Pan: 0.1°/s - 390°/s, Tilt: 0.1°/s - 270°/s	
Presets & Memory	360 Presets; Power-off memory supported	
Automation	8 cruises (16 presets each), 4 traces, and scheduled tasks	
Intelligence & Analytics		
Target Classification	Deep-learning engine for human and vehicle detection and tracking	
Behavior Analysis	Tripwire, intrusion, region entrance, and region exiting detection	
General Alarms	Motion detection, video tampering, and exception alarms	
Video & Audio		
Compression	H.265+ / H.265 / H.264+ / H.264 / MJPEG	
Stream Performance	3 Streams - Main stream up to 2560x1440 @ 50fps; Sub stream up to 704x576 @ 50fps; Third stream up to 1920x1080 @ 30fps	
Audio Interface	1CH Input / 1CH Output (G711A/U)	
Storage	Built-in Micro SD slot (up to 256GB)	
Physical & Environmental		
Power Input	DC24V or PoE+ (IEEE802.3at, type 2)	
Power Consumption	Max 23.5W (with IR)	
Installation	Wall mounting (L-shape pole included), Corner/Pole/Ceiling(Pendant) mount*	
Dimensions	ø302 x 197 mm	
Weight	Approx. 3kg	
Protection	IP66 Weatherproof; IK10 Vandal-resistant; 6KV Surge	
Working Environment	-40°C to 70°C, Humidity ≤95%	

* Optional pole is required for ceiling mount or other type of installation. Contact Sales Team more information.

Typical Applications

Critical Infrastructure & Perimeters

Secures airports and industrial parks using AI to classify humans/vehicles up to 720m and trigger automated tracking.

Transportation & Traffic Monitoring

Monitors expressways and stations with ultra-fast 420°/s pan speeds and 40x optical zoom to track 17 objects per scene.

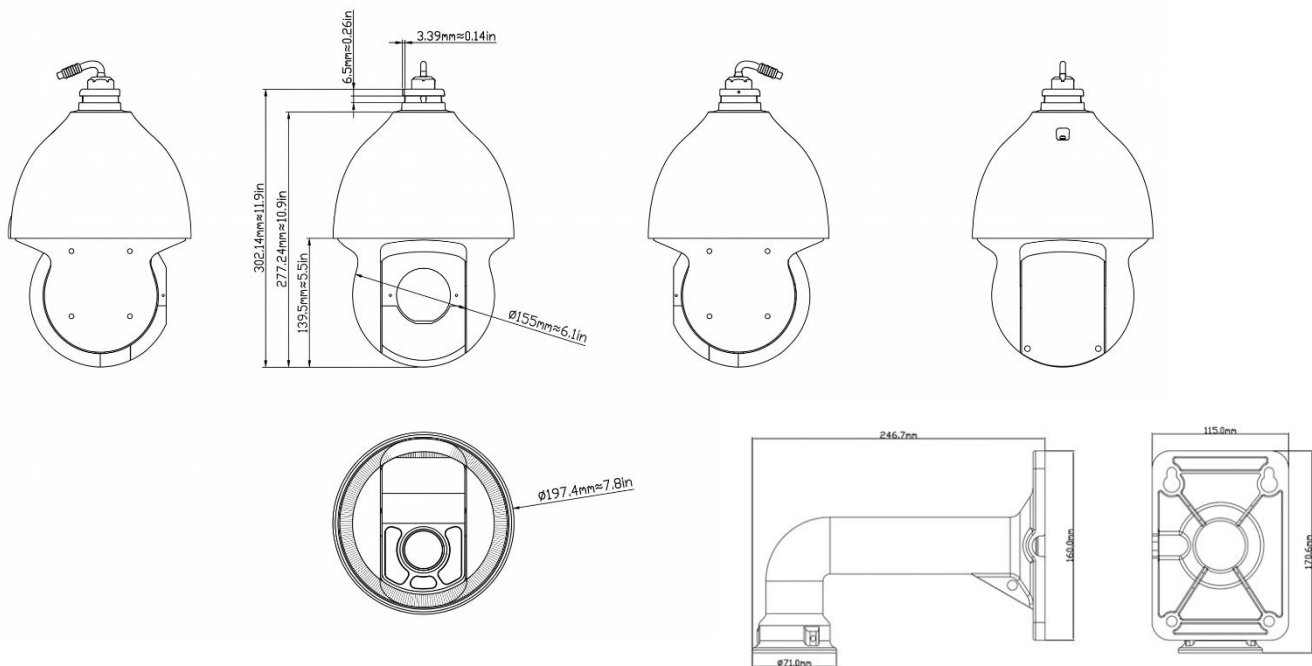
Large Public Venues

Provides 2K UHD coverage for parks and stadiums, capturing evidence-level detail in darkness via 350m IR illumination.

Urban Safety & Public Squares

Monitors city squares and high-density zones using face detection for up to 17 targets per scene with forensic clarity.

Dimensions & Drawings



Ordering Information

Model No.	Product Description
t1499	FlexCam 4MP 40X 5" Speed PTZ IP Camera

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