ASCENDENT TECHNOLOGY GROUP

ASC-PTZ-36X-TI

Rugged Pan-Tilt-Zoom Camera

Thermal and color CCD imaging



Vehicle detection: 2250m (7380 ft)
Human detection: 780m (2560 ft)

The ASC-PTZ-36X-TI manually or automatically switches from 36X ultra high resolution color CCD or thermal imaging for true 24/7 performance. Integrating these 2 image sensors provides unparalleled performance resulting in accurate detection recognition and identification of intruders. All this is integrated into a rugged IP66 housing, constructed of strengthened aluminum alloy up to 15mm thick with internal heater blower and wiper to withstand the harshest climates and most brutal assaults making it ideal for homeland security, critical infrastructure, military logistics, and perimeter defense.

Incorporates a thermal-infrared uncooled Focal Plane Array (FPA) FLIR core with built-in sun protection to eliminate damage caused by direct sunlight and parasitic light. The ASCPTZ-36X-TI is equipped with a 50mm Germanium lens, for Detection Range: 2560ft (780m) human detection range, 1.4 miles (2.2km) object detection. The FLIR Thermal imager to suites virtually application by offer a variety of thermal imaging modes including heat variance, false color hot and cold spot highlights ASC-PTZ-36X-TI Integrated ¼" Ex-View HAD CCD sensor that renders superb detail rich images and high zoom capabilities with its 3.4~122.4mm lens (432x w/Digital zoom).

The ASC-PTZ-36X-TI 5mm optically pure flat tempered glass eliminates distortion and blurring that normally occurs further enhancing the image clarity even when zoomed in. The OSD also allows you to program the WRD, Backlight compensation, privacy zones, and virtually every aspect of the camera allowing it to be installed in virtually any application. All these features in tandem with the accurate pan and tilt drivers allow the ASCPTZ-36X-TI to capture minute details at great distances for indisputable identification resulting in the prosecution of trespassing parties.

Key Features

- Thermal and color CCD sensors work in tandem to provide detection and identification in poor lighting environments
- Extremely ruggedized design: constructed of 5-15mm thick high strength aluminum alloy, to withstand the most brutal assaults
- IP66/NEMA 4X Weather proof housing with heater for a temperature variance of -50˚C ~ 55˚C
- Highly tuned precision-engineered IR corrected optics integrated MICF mechanical filter
- 3.4-122mm (36X optical) continuous zoom renders crisp clear images at great distances
- Constructed of 5mm thick optically pure tempered glass eliminates dithering and distortion, further enhancing image clarity
- Gear box and micro-step technology for quick accurate pan and tilting better then (.01) providing reliability and performance
- Flexible mounting: can be installed vertically or inverted to accommodate installation in virtually any application
- Multi-protocol communication for integration with new or existing CCTV infrastructure to act either autonomously or part of a larger CCTV solution

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36x Optical Zoom Module	
Lens	F=3.4mm (WIDE) to 122.4mm (TELE), F1.6 to F4.5
Zoom	36x optical (12x digital)
Angle of View	57.8º (WIDE end) to 1.7º (TELE end)
Minimum Illumination	1.4 lux (F1.6, 1/60s NTSC, 1/50s PAL), 0.1 lux (F1.6, 1/4s NTSC, 1/3s PAL), 0.01 lux or less (F1.6, 1/4s NTSC, 1/3s PAL, ICR ON)
Shutter Speed	1/4 to 1/10,000s (20 steps) NTSC, 1/3 to 1/10,000s (20 steps) PAL
Thermal Imager	
Lens	50mm Germanium lens
Image sensor	Focal Plane Array (FPA), uncooled Vanadium Oxide microbolometer 7.5Hz NTSC, 8.3Hz PAL
Picture Elements	324(H) x 256(V) pixels
Field of View	14° (H) x 11° (V)
Focus	Factory-set at infinity focus
Detection Range	Vehicle detection: 2250 m (7380 ft), Human detection: 780 m (2560 ft)
Spectral Response	7.5 to 13.5 µm
Thermal Sensitivity	<85 mK NEdT at f/1.6
Features	White hot, black hot and false color
Communications & Presets	
Presets	Up to 255 presets accurate to less than 0.1° (micro step technology)
Preset tours	4 Preset tours (24 privacy zones.)
Home Position	Yes (preset 1 or tour)
Communication	RS485 / RS422
Control Protocol	Pelco P / D standard
Camera orientation display function	function(N,NE,E,SE,S,SW,W,NW) total 8 orientations
Mechanical	
Drive Unit	Integral pan/tilt brushless motor drive micro step, pan and tilt
Pan angle and speed	360° continuous pan | Variable speed: up to 90º
Tilt angle and speed	125° | Variable speed: 0.1º to 90º per second
Speed Control	Closed loop electronics
Preset Accuracy	Better than 0.1°
Proportional P/T to Zoom position	Yes: Automatic adjust speed with zoom in for accurate pan tilt zoom
Physical	
Construction	5-15mm thick high stenght aluminum alloy
Viewing Window	5mm thick tempered flat glass (optical) & germanium glass (thermal)
Window Wiper	External window wiper included
Standard Colors	Black (white optional for hot climate)
Dimensions (Height X Diameter)	483mm (Height) x 173mm (Diameter)
Weight	42lbs | 19.1Kg
Environmental	
Operational Temp.	-50˚C to +55˚C | -58˚F to 131˚F temperature controlled heater & blower)
Environmental	IP66, NEMA 4X Outdoor Weather Rating
Electrical	
Input Voltage	18VAC--24VAC/18VDC24VDC (CE, ROHS, FCC)
Power Consumption	Max 60W Max, (heater on)
Available Options	
Mounting	Upright mount or inverted mount options
IP-Pro server (With X4 software)	converts camera into IP camera to distribute video over wired or wireless netowrks
Viewing window (optional)	NTSC or PAL
Camera Color System	Extra 5mm tempered glass viewing window

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