

KEY FEATURES

- › Color by day and quality monochrome at night
- › 1/4" Ex-View HAD II greatly increases IR light distance
- › 3.5-129mm IR corrected continuous zoom lens
- › PTZ positioning, 90° tilt up to 200°/s (endless rotation)
- › Active IR performs in 0 Lux (complete darkness)
- › 140m (459ft) Recognition / 100m (328ft) Identification
- › Accurate to 0.01° (Micro-Step Technology)
- › Up to 220 Pan-Tilt-Zoom presets with guard tours
- › Rugged IP 66, -45°C to +60°C heater/blower
- › Pelco D/P communication protocol via RS-485



NOVA-140M-37X

ZID ACTIVE ILLUMINATION

Ascendent's IR diode module combines ZID technology (Zoom IR Diode), quality optics, and sophisticated electronics with long-range active IR illumination greatly exceeding both performance and distance of traditional IR LED illumination. ZID technology synchronizes IR intensity and area illumination with a motorized zoom lens for flawless active IR performance that eliminates over and under exposure for 24/7 true day/night performance.

RUGGED DESIGN

All the components are integrated in a robust IP 66 rated enclosure, constructed of high quality aluminum alloy and a thick, flat tempered glass window to withstand even the most severe assaults while maintaining an aesthetic profile. Its internal, thermostatically controlled heater/blower maintains a constant internal temperature. Even in extreme temperatures from -45°C to +60°C it offers absolute performance for the most demanding applications making it the clear choice for security professionals worldwide.

SUPERB IMAGE QUALITY

The NOVA 140M-37X boasts a state-of-the-art 1/4" Ex-View HAD II CCD imager that delivers rich

600TVL color by day and crisp 700TVL monochrome images at night. It contains a 3.5mm-129.5mm lens for an optical zoom factor of 37X for extreme wide angle to narrow fields of view. This, along with the camera's 16X digital zoom gives a total of 592X zoom to capture even the most minute details at great distances.

MICRO-STEP PTZ POSITIONING

A belt-driven system and the implementation of Micro-Step technology delivers 0.01° accuracy at speeds of 200°/s. The NOVA is packed with features such as multiple-level PTZ control, presets, tours, auto-flip, and proportional panspeed, providing unparalleled situational awareness with no blind spots. This makes the NOVA the most versatile and dynamic PTZ camera on the market.

ADAPTIVE LIGHT PERFORMANCE

This camera contains integrated OSD programming allowing configuration of every aspect of the camera. The OSD allows the use of wide dynamic range (WDR), highlight compensation (HLC), targeted backlightcompensation (TBL), and auto white balance (AWB), as well as a host of other image-enhancing technologies. All of these features allow the NOVA to capture images in the most difficult lighting conditions.

Optical Assembly (37X)		*Specifications subject to change
Image Sensor	1/4" Ex-View HAD II CCD	
Resolution	600TVL (day) / 700TVL (night)	
Frame Rate (FPS)	30FPS	
Lens	3.5mm-129.5mm IR corrected continuous zoom lens	
Minimum Illumination (Sens-Up)	Color 0.05 Lux / BW 0.0008 Lux	
Shutter Speed	Auto: 1/50 - 1/10,000 Sec	
Zoom	37X optical, 12X digital, 444X total	
Filter	Dual MCF: (Mechanical IR Cut Filter)	
IR Illuminator		
ZID	Zoom IR Diode	
Distance	140M Recognition / 100M Identification	
Angle	5°-60°	
Wavelength	810nm (940nm stealth optional)	
Communication & Presets		
Presets	220 presets	
Preset Tours	3 preset tours	
Home Position	Yes (preset 1 or tour)	
Communication	RS485	
Control Protocol	Pelco-P/D standard	
Mechanical		
Drive Unit	Integram pan/tilt brushless motor drive	
Pan Angle	360° continuous pan	
Tilt Angle	90° (auto-flip)	
Speed Control	Closed loop electronics (0.05°-200°)	
Preset Accuracy	0.01° (Micro-Step)	
Proportional P/T to Zoom	Yes (Automatic adjust speed with zoom for accurate pan-tilt)	
Physical		
Construction	Extruded high strength aluminum	
Standard Colors	Black (white available)	
Weight	2.7KG	
Viewing Window	Flat tempered glass	
Dimensions	300m (height) x 215mm (diameter)	
Environmental		
Operational Temperature	-45°C to +60°C (temperature controlled heater/blower)	
Environmental	IP 66, NEMA 4X	
Electrical		
Input Voltage	24VAC (CE, ROHS, FCC)	
Power Consumption	Max 40W (heater on),	
Lightning Protection	3,000 Volts	
Available Options		
Alarms	4 alarm inputs, 2 alarm outputs	
Housing	Explosion proof housing for hazardous environments	
Mounts	Available wall or pole mounts	
IP-Pro Server (X4 Platform)	Converts analog cameras into IP addressable servers	
Camera Color System	NTSC or PAL	