



# ASCENDENT



## NOVA 50M-12X

### IR High Speed Dome

### Superb Image Quality

The NOVA 50M-12X boasts a state-of-the-art 1/3" HAD CCD imager that delivers rich 580TVL for color images by day and 680TVL for crisp monochrome images at night. It contains a 4mm-46mm lens for an optical zoom factor of 12X for extreme wide angle to narrow fields of view. This, along with the camera's 16X digital zoom gives a total of 192X 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 pan-speed, 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

The NOVA series contains integrated OSD programming allowing configuration of every aspect of the camera to suit any application. The OSD allows the use of highlight compensation (HLC), targeted backlight compensation (TBL), and auto white balance, 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.

### Adjustable IR Intensity

This camera achieves unparalleled active IR imaging unlike traditional IR night vision cameras that use standard CCD lenses and LEDs that operate autonomously. The Nova has intelligent illumination control to ensure the optics, image sensor, lens, and IRC work in harmony. The LEDs brightness syncs with the field of view of the lens. The 6 super bright IR LEDs are optimally spaced to provide even IR distribution to eliminate hot-spots and washout to provide 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. It's 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.



### Features

- Mid-range day/night PTZ surveillance solution
- Color by day and quality monochrome at night
- 1/3" HAD CCD greatly increases IR light distance
- Endless 360° high-speed, PTZ positioning
- IR intensity adjusts with motorized zoom lens
- 55m (180ft) Recognition / 35m (114ft) Identification
- 4-46mm IR corrected continuous zoom lens
- Accurate to 0.01° (Micro-Step Technology)
- Flawless IR with no washout or hotspots
- Up to 220 Pan-Tilt-Zoom presets with guard tours
- Adjustable EPC for automatic day/night and IR activation
- Extreme -45°C to +60°C heater/blower
- Rugged IP 66, 4.5" housing for harsh environments
- All brackets and fastening hardware included
- Pelco D/P communication protocol via RS-485
- 12X optical zoom / 16X digital zoom = 192X total zoom
- Image Enhancers: TBL/ATW/DIS/HLC/SSNR II
- OSD for programming configuration
- Endless 360° rotation / 90° tilt up to 200°/s

**ASCENDENT****NOVA 50M-12X****IR High Speed Dome**

<b>Optics</b>	
Lens	4mm-46mm IR corrected continuous zoom lens
Zoom	12X optical, 16X digital, 192X total
Image Sensor	1/3" HAD CCD
Minimum Illumination	Color .05 Lux B/W 0 Lux (IR on)
Shutter Speed	Auto: 1/50 - 1/10,000 SEC
Resolution	580TVL (day) / 680TVL (night)
Filter	Dual MIRC: (Mechanical IR Cut Filter)
<b>IR Illuminator</b>	
Hybrid IR LEDs	Syncs with zoom lens
Distance	55M recognition / 35M identification
Angle	ø16=6
Wavelength	810nm (940nm Stealth optional)
<b>Communication &amp; Presets</b>	
Presets	220 Presets
Preset Tours	3 Preset Tours
Home Position	Yes (preset 1 or tour)
Communication & Presets	RS485
Control Protocol	Pelco-D, Pelco-P
<b>Mechanical</b>	
Accuracy	Less than 0.01° Micro-Step Technology
Drive Unit	Integral Micro-Step pan and tilt
Pan Angle	360° Continuous Pan
Tilt Angle	90°
Speed Control	Closed loop electronics (0.05°~200°)
Preset Accuracy	Better than 0.1°
Proportional P/T to Zoom Position	Yes
<b>Physical</b>	
Construction	Extruded high strength aluminum
Viewing Window	Flat Tempered Glass
Standard Colors	Black/White
Dimensions	300mm (Height) x 114mm (Diameter)
Weight	2.1KG
<b>Environmental</b>	
Operational Temperature	-45°C to +60°C (temperature controlled heater/blower)
Environmental	IP 66, NEMA 4x
<b>Electrical</b>	
Lightning Protection	3,000 Volts
Input Voltage	24VAC (CE, ROHS, FCC)
Power Consumption	Max 40W (Heater on)
<b>Available Options</b>	
Alarms	4 alarm inputs, 2 alarm outputs
Mounts	Available wall or pole mounts
IP-Pro Server (X4 Platform)	Converts analog cameras into IP addressable servers
Camera Color System	NTSC or PAL

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