



Superior Image Quality

The FLEX-23X-LIR incorporates highly tuned 1/3" EXCCD imaging equipment that is optimized for long range surveillance to render superb detail-rich color by day and crisp monochrome images at night.

ZLID Illuminator

Ascendent's laser IR diode module combines ZLID technology (Zoom Laser IR Diode), quality precision optics, and sophisticated electronics with long range active IR illumination greatly exceeding both performance and distance over traditional IR LED illumination. Ascendent's ZLID technology (IR Laser) synchronizes IR intensity and area illumination with motorized zoom lens for outstanding active IR performance and only turns on when the camera is zoomed in.

Active IR vs. Thermal Imaging

The FLEX-23X-LIR has significant advantages over thermal imaging by producing images with up to 500% higher resolution. Active IR illuminates through windows and other optically pure substances at night for both recognition and identification.

Performance & Reliability

The FLEX-23X-LIR is comprised of high quality precision engineered components for unparalleled performance and reliability. The heavy duty PT driver implements brushless motor technology for endless 360° panning and tilting in increments as low as .05°. The lasers have a solid-state design and strict power regulation for a MTBF of 10,000 hours and draw only 17W power. All these components are integrated into a rugged IP66 extruded aluminum housing.



140m Active IR Performance

Integrated IRC

The IR Cut Filter moves in front of the sensor to block out parasitic infrared light, while at night the IR Cut Filter is moved away so that IR light may pass through. Since even the best IR Cut Filters do not block 100% of all the IR radiation, the remaining IR rays that strike the sensor are corrected providing optimal image quality.

X4-IP-PRO-1

This internet protocol video server converts any analog camera into an IP addressable server. Video can then be transmitted digitally via wired or wireless LAN or WAN networks.



Features

- Long range day/night PTZ surveillance solution
- Color by day and quality monochrome images at night
- 1/3" EXCCD intensifies IR light increasing distance
- Endless 360° high-speed, PTZ positioning system
- Active IR performance in 0 Lux (complete darkness)
- 165m (540ft) Recognition / 130m (425ft) Identification
- 4mm - 90mm IR corrected continuous zoom lens
- Laser IR diode and IR LED for dynamic illumination
- Flawless IR illumination with no washout or hotspots
- Up to 128 Pan-Tilt-Zoom presets
- 2 programmable tours with 63 presets per tour
- EPC for automatic day/night switching and IR activation
- Rugged IP66 housing to withstand harsh environments
- Micro-step pan-tilt for accurate positioning
- All brackets and fastening hardware included
- Extreme environment -45°C ~ +50°C heater blower



Optics	FLEX-23X-LIR
Lens	4-90mm IR Corrected Continuous Zoom Lens
Zoom	23X Optical Zoom (Sony 36X Available)
Image Sensor	1/3" Exview HAD CCD
Minimum Illumination	Color .5 Lux B/W 0 Lux (IR on)
Shutter Speed	Auto / 1/50 -- 1/10,000 SEC
Resolution	540TVL
Effective Pixels	768(H) x 492(V) NTSC / 752(H) x 582(V) PAL
Filter	Dual MIRC: (Mechanical IR cut filter)
IR Illuminator	
ZLID (Zoom Laser IR Diode)	Syncs with Zoom lens 110~200m Active IR Illumination (10°)
LED Illuminator	47 Super Bright IR LED for 80M of Active IR (45°)
Distance	Clean Active IR 0~140M (Projected Active IR Distance 250M)
Wavelength	810nm 940nm available (Stealth)
Power	22W
Communication & Presets	
Presets	Up to 128 presets accurate to less than 0.05°(micro step technology)
Preset Tours	4 Preset tours
Home Position	Yes (preset 1 or tour)
Communication	RS485 / RS422
Control Protocol	Pelco P/D (others optional)
Mechanical	
Drive Unit	Integral pan micro step, pan and tilt
Pan Angle & Speed	360° continuous pan Variable speed: up to 220°
Tilt Angle & Speed	up to 75° Variable speed: 0.1° to 10° per second
Speed Control	Closed loop electronics
Preset Accuracy	Better than 0.1°
Proportional P/T to Zoom Position	Yes: Automatically adjusts speed with zoom for accurate pan tilt zoom
Physical	
Construction	Extruded high strength aluminum alloy (optional anti-corrosive coating)
Viewing window	Flat Tempered Glass
Standard Colors	White (Other colors available)
Dimensions	300mm (Height) x 215mm (Diameter)
Weight	6.8lbs 3.1Kg Approx.
Environmental	
Operational Temperature	-45°C ~ +50°C (temperature controlled heater & blower)
Environmental	IP65, NEMA 4X
Electrical	
Input Voltage	24VAC (CE, ROHS, FCC)
Power Consumption	Max 40W (Heater on)
Available Options	
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