

# 2400xp Advanced



The Thermal-Eye 2400xp Advanced is the most widely produced dual sensor (visible and thermal imaging) camera that offers "Gold-Standard" thermal image quality for security applications.



It is available as a fixed mount camera or with pan & tilt / slew-to-queue capability.



*Selected #1 in image quality in recent independent surveys.*

## BENEFITS:

- Provides full-motion and real-time day/night 24x7 video surveillance
- Monitors full perimeter in darkness, any weather and over long distances
- Detects intruders and protects assets with passive, non-intrusive technology
- Eliminates need for enhanced light
- Reduces energy costs
- Saves time, money and resources while providing round-the-clock security & protection
- Integrates easily with existing security infrastructure
- Flexible pan and tilt design for additional movable or fixed sensors (LRF/D, Radar, etc.)
- Optional communications protocols (Pelco-D, VSP, etc.)

## FEATURES:

- Advanced P&T features include wider temperature range, 360° slip ring, minimim pan/tilt of 80°/sec, digital compass and Pelco D communications
- "Gold-Standard" BST image quality with clear 320 x 240 resolution
- High-resolution, fully automatic CCD visible camera with 25X optical zoom and 12X digital zoom
- Heavy-duty pan and tilt positioning system
- Optional window wiper assembly available
- Optional GUI software defines a region of interest, automatically detects motion and provides alarm for intruder alert(s)
- Automatic or manual camera control through optional RS-232 and RS-422 communications GUI software
- Thermostatically controlled heating and cooling weatherized enclosure with solar shield
- Complete immunity to damage from solar radiation

MILITARY

LAW ENFORCEMENT

EXECUTIVE SECURITY

COVERT OPERATIONS

RESIDENTIAL

INDUSTRIAL



Man in alley (thermal/visible)



Thermal view of truck

# 2400xp ADVANCED TECHNICAL SPECIFICATIONS:

FEATURES		THERMAL-EYE 2400xp ADVANCED					
		THERMAL IMAGING CAMERA			VISIBLE CAMERA		
FOCAL PLANE ARRAY	MATERIAL & STRUCTURE	Ferroelectric Focal Plane Array — Barium StrontiumTitanate (BST)			1/6" IT CCD		
	SPECTRAL RESPONSE	7-14µm (filter bandwidth)			350nm-740nm		
	SENSITIVITY	≤100mK			.01lux		
	FRAME RATE	30Hz NTSC/25Hz PAL					
THERMAL IMAGING PERFORMANCE	START-UP TIME	~ 30 seconds (typical), ~ 90 seconds (maximum)					
	CONTRAST/BRIGHTNESS	Automatic or Manual (Gain, level and polarity can be remotely controlled)			Automatic or Manual (Recommended illumination – 3.0 to 100,000lux) (Minimum illumination – 0.01lux)		
OPTICS	LENS OPTIONS	75mm f/1	100mm f/1	150mm f/1	2.4mm (wide)	6.0mm (tele)	
	FIELD OF VIEW (HxV)	12° x 9°	9° x 6.6°	6° x 4.4°	45° x 34°	2.0° x 1.5°	
	ZOOM	Electronic zoom 2X with peaking and interpolation			25X optical zoom plus 12X digital zoom		
	RANGE TO DETECT HUMAN ACTIVITY	75mm is 3000ft (915m), 100mm is 3700ft (1128m), 150mm is 5900ft (1800m)			N/A		
	FOCUS	Electronic focus			Electronic focus (Automatic flicker compensation & focusing system)		
VIDEO	OUTPUT FORMAT	Analog: 9-bit, Digital: 16-bit parallel			Serial interface – VISCA protocol (TTL)		
	SELECTABLE OPTIONS	One video output (to be used with remote switching between dual-sensor head output from control system) or two simultaneous video outputs					
SYSTEM POWER	INPUT VOLTAGE	12VDC – Camera only, 9-32VDC with P&T					
	INPUT POWER	3-4 Watts BST Camera, 1.5 Watts Visible Camera & 20 (standby) – 70 Watts (moving) P&T					
COMMUNICATIONS PROTOCOL		Pelco D or RS-232					
ENVIRONMENTAL CHARACTERISTICS	OPERATING TEMPERATURE (ambient air temperature)	-40°F to +167°F (-40°C to +75°C), Extended with internal heater					
	STORAGE TEMPERATURE	-40°F to +185°F (-40°C to +85°C)					
	WEATHERPROOFING	Watertight to IPX66					
COMPLETE SYSTEM PHYSICAL CHARACTERISTICS	SIZE	16" L x 10"W x 21"H (406mm L x 254mm W x 533mm H)					
	COLOR	White					
	WEIGHT	70lbs (31.82kg) with pan/tilt and wiper					
ORDERING INFORMATION NTSC/PAL		DUAL SENSOR FIXED			DUAL SENSOR WITH P&T		
	75MM LENS	1000361-075-VC-N/1000361-075-VC-P			1000360-075-VC-N-PD/1000360-075-VC-P-PD		
	100MM LENS	1000361-100-VC-N/1000361-100-VC-P			1000360-100-VC-N-PD/1000360-100-VC-P-PD		
	150MM LENS	1000361-150-VC-N/1000361-150-VC-P			1000360-150-VC-N-PD/1000360-150-VC-P-PD		
PAN & TILT FUNCTIONS	MOTOR TYPE	5-phase stepper numeric positioner					
	PAN AZIMUTH RANGE	360° continuous (slip ring)					
	PAN SPEED RANGE	.05°/second to 80°/second					
	TILT ELEVATION RANGE	190° ± 95°					
	TILT SPEED RANGE	.01°/second to 80°/second					
	BACKLASH	0°					
	ACCURACY	.01°, 1 Sigma					
	DIGITAL COMPASS	8 or 16 direction points (N, NE, E, SE, S, SW, W and NW) can be displayed along with absolute position					
DATA/VIDEO SUPPORT FEATURES		TCP/IP, wireless, solar power, DVR (streaming MPG1 or MPG2, snapshot JPG or MPG2), auto motion alarm intelligent video analytics					
OPTIONAL ACCESSORIES	75MM OR 100MM WINDOW WIPER	Add suffix W1 (i.e. For 75mm Dual Fixed PAL: 1000361-075-VC-P-W1)					
	150MM WINDOW WIPER	Add suffix W2 (i.e. For 150mm Dual P&T PAL: 1000360-150-VC-P-PD-W2)					

Specifications subject to change without notice

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