

Long Range Thermal Surveillance Camera

IR23X serious thermal camera features high sensitivity HgCdTe cooled FPA detector, and it provides observation, target acquisition capabilities in various climatic and weather conditions. It has WFOV and NFOV by switching the lens, WFOV for wide scope search and NFOV for target details recognition. It can be applied to secure border with long range searching, detection, and ideal to be installed in coastal or land borders. Seeing through smoke, fog and total darkness, it makes any shadiness or illegality nowhere to hide.

Features and Benefits

- 320×256 high performance cooled detector
- Crisp thermal image with high pixels
- Different FOV Lens optional satisfied different applications
- Intelligent software help to preset and analyze in the inspection area



Applications

- Search and rescue
- Perimeter security monitoring
- Law enforcement
- Coastal and border surveillance
- Industrial monitoring
- Forest fire prevention



Specifications

IR231

IR232

Imaging Performance		
Detector Type	HgCdTe	
Pixels	320×256	
Pitch	30μm	
Spectral Range	3-5μm	
Frame Frequency	50Hz	
NETD	≤30mk@30℃	
Lens		
Focal Length	22mm/150mm/600mm	240mm/60mm
F#	4	2
WFOV	24.6° x 19.8°	9.2° x 6.9°
MFOV	3.67° x 2.93°	
NFOV	0.92° x 0.73°	2.3° x 1.7°
Focus	Automatic	
Electronic Zoom	2X,4X(Optional)	
Visual Camera		
Type	SONY FCB-EX980SP	
FOV	42° × 1.6° , 26X optical continuous zoom, 12X electronic continuous zoom	
Focus	the same as thermal camera	
Pan/Tilt		
Azimuth Angle	0° ~360° ; 0-65° /S	
Pitching Angle	-45° ~60° ; 0-30° /S	
Programmable search	preset 80 points	
Built in Test	Yes	
External Control		
Control box	Yes	
Software control	Yes	
Video Output		
Video Output	PAL/NTSC(Optional)	
Communication protocol	Pelco D	
TCP/IP	Yes	
Intelligent Image Process		
Image enhancement	Yes	
Auto Gain Control	Yes	
Image tracking algorithm	Yes	
Environmental Specification		
Operating Temperature	-20℃~+50℃ (-40℃~+60℃ (Optional))	
Storage Temperature	-40℃~+60℃	
Encapsulation	IP66	
Air-tight seal	Nitrogen	
Shock	25g, IEC68-2-29	
Vibration	2g, IEC68-2-6	
Auto Defrost	Yes	
Physical Characteristics		
Size	434mm×230mm×275mm (excluding pantile)	
Weight	20kg (excluding pantile)	20kg (excluding pantile)
Detection range	2.3m Vehicle >20km	2.3m Vehicle >20km
Recognition range	2.3m Vehicle >12km	2.3m Vehicle >12km

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