Long Range Thermal Surveillance Camera

IR23X serious thermal camera features high sensitivity 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 recognization. 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

- high performance infrared 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

	IR233	IR232
Imaging Performance		
Detector Type	UFPA microbolometer	HgCdTe
Pixels	384×288	320×256
Pitch	25μm	30μm
Spectral Range	8-14μm	3-5μm
Frame Frequency	50Hz	50Hz
NETD	≤80mk@30℃	≤30mk@30℃
Lens		
Focal Length	68mm/150mm	240mm/60mm
F#	1.0	2
WFOV	8.08°×6.06°	9.2°×6.9°
MFOV	N/A	N/A
NFOV	3.67°×2.75°	2.3°×1.7°
Focus	Automatic	
Electronic Zoom	2X,4X(Optional)	
Visual Camera		
Type	SONY FCB-EX980SP	
FOV	42°×1.6°, 26X optical continuous zoom, 12X electronical 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	15kg (excluding pantile)	20kg (excluding pantile)
Detection range	2.3m Vehicle >5km	2.3m Vehicle >20km
Recognition range	2.3m Vehicle >3km	2.3m Vehicle >12km