

DETECTING WILDFIRE WITH INFRARED IMAGING

FWS3000 is a Wildfire Early Warning Systems designed and made by Cantronic System (Canada) Inc for forest fire prevention purpose. This system's hardware includes the long-range visual and thermal imaging cameras, heavy-duty 360-degree pan & tilt, and network control devices. The fire surveillance and monitor range can achieve over 2km-5km in all-time day and night. The standard thermal camera in this system is 320X240 uncooled thermal imaging camera.

Compared with the general network video surveillance system, this wildfire early warning system has advanced infrared thermal image acquisition, detection, analysis, judgment, and wireless network-based real-time digital video monitoring and alarming functions.

The system can automatically work under without manpower attended situation. It is able to detect any abnormal signs of fire and smoke within the monitored area, and instantly alarm and provide real-time information to effectively assist firefighters process the scene of the fire. The firefighters can also intuitively view the real-time live images to command dispatch fire fighting.

Hardware installation picture



Software screen shot

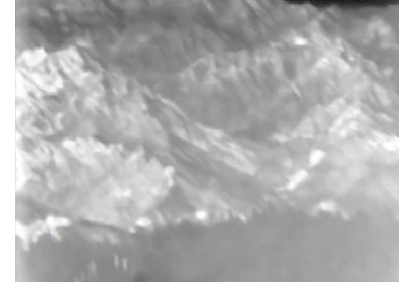


Control and command center image



Hardware Specifications

Mode	FWS3000-50	FWS3000-100	FWS3000-150
Thermal Camera Module			
Detector Type	Uncooled Micro Bolometer (Vox)		
Pixels	320x240		
Wave Length	8 ~ 14µm		
Pitch Size	17µm		
Frame Rate	30Hz (NTSC) or 25Hz (PAL)		
NETD	≤50mk@25°C		
Focus Method	Motorized (Continuous zoom optional)		
Focus Length	50mm	100mm	150mm
Detection distance (Target size: 2m x 2m)	>1000m	>2000m	>5000m
Visual day/Night Camera Module			
Sensor	1/ 2" Digital CCD		
Resolution	752 X 582 (PAL) or 768 x 492 (NTSC)		
Min. Illumination	0.008 Lux (Monochrome Mode)		
Lens Abilities	Fog Penetrate, Auto Iris, Continuous zoom, Preset		
Focus Length	10 - 210mm	12.5 - 375mm	30 - 500mm
Overall System			
Pan/Tilt	Pan range: 0 -360° continuous Tilt rang: +/- 45°		
Interface	2 NBC Video outputs 1 RJ45 Network 1 RS485 Control 1 Power input (24VAC)		
Operating Temperature	-20°C ~ +60°C		
Storage Temperature	-30°C ~ +70°C		
Protection	IP68		
Power Consumption	100W	110W	150W
Weight (Include Pan/Tilt)	≤ 20Kg	≤ 30Kg	≤ 50Kg



How to Order

FWS3000-100 N

Lens

- 50: 50 mm Motorized Lens
- 100: 100 mm Motorized Lens
- 150: 150 mm Motorized Lens

Video Output

- N: NTSC
- P: PAL

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Specifications are subject to change without prior notice.
Cantronic Systems (Canada) Inc. DS-WFS-201605