

# MCxxxxFT

Bi-spectrum Thermography  
Network Bullet Camera

Dual-light monitoring for 24-hour security guard



## Introduction

The MCxxxxFT series adopts a VOx uncooled infrared detector with a high-definition visible light camera to measure temperature accurately, presenting excellent observation results, mainly used in the small to medium-range of security monitoring and temperature measurement. With advanced temperature measurement and AI algorithms, it supports sound and light alarm functions, truly realizing 24-hour security monitoring and temperature visualization monitoring.

## Features and Benefits

- o 256×192/400×300 Thermal detector and 5MP Digital sensor
- o Supports dual-light fusion, detail enhancement, electronic defog, backlight compensation, etc.
- o Supports Tripwire Intrusion, Fire Detection, Smoke Detection, Phone Call Detection, etc.
- o Remote upgrade via the internet for easy maintenance
- o IP67, resistant to static and surges, withstands harsh weather like wind, rain, and lightning.
- o Easy installation, cost-effective with POE support.

## Applications

Applicable to indoor or outdoor small to medium-range perimeter prevention, temperature monitoring, early warning, etc.



## Specifications

Product model	MC2007FT	MC4007FT	MC4013FT	MC4019FT
<b>Thermographic</b>				
Detector type	WLP VOx			
Detector resolution	256×192	400×300		
Pixel size	12μm	17μm		
Wavelength range	8μm to 14μm			
NETD	≤50mK@30°C			
Lens	7mm, 24°×18°	9.1mm, 40°×30°	13mm, 28°×21°	19mm, 20°×15°
Focusing mode	Focus-free			
Pseudo colors	9 pseudo colors: White Hot, Black Hot, Rainbow and so on			
Featured features	Detail enhancement, 2D/ 3D noise reduction, Image flip, Dual light fusion			
<b>Temperature measurement</b>				
Measurement range	Low: -20°C to 150°C; High: -20°C to 550°C			
Measurement accuracy	±2°C or ±2% (whichever is greater)			
Target setting	Up to 12 targets (spot, line, rectangle, polygon and circle)			
Measurement function	Cold/ hot spot tracking, Full-screen point temperature measuring, Query and export of information			
<b>Visible light</b>				
Sensor type	1/ 2.8" CMOS			
Max. resolution	2592×1944			
Min. illuminance	0.005Lux @(F1.2, AGC ON), 0 Lux with IR			
lens	8mm: 35.4°×26.9°	4mm: 65°×50°	8mm: 35.4°×26.9°	
Fill light	Infrared fill light + White light			
Featured features	Electronic defog, Visible light gain control, 2D/ 3D noise reduction, Backlight compensation, Wide dynamic, Strong-light photoinhibition, Image flip, Exposure compensation			
<b>Image</b>				
Video compression	Switch between three standards H.265, H.264 and MJPEG			
Image format	JPEG			
Code stream	Visible light: Mainstream (2592×1944/2304×1296/1920×1080/1280×720/D1, default 2592×1944), Substream (1280×720/D1, default 1280×720); Thermal imaging: Mainstream (512×384), Substream (256×192)			
<b>Protocol and storage</b>				
Network protocol	IPv4/ IPv6, HTTP, SMTP, RTSP, TCP, DHCP, ONVIF (Automatic search device, RTSP video stream and device control), GB/ T28181, MQTT			
SDK/ API	Open SDK/ API for software integration			
Local storage	256G TF card			
<b>System function</b>				
Language version	Chinese/ English			
Browser	Supported			
User management	Max. 20 users with two levels of user accounts (Admin and User)			
Fault detection	Network interrupt detection; IP conflict detection; Illegal access; storage exception			
Intelligent functions	Tripwire Intrusion, Area Intrusion, Fire Detection, High Temperature Alert, Smoke Detection, Phone Call Detection, etc.			
<b>Hardware interface</b>				
Power interface	DC12V±20%/POE			
Network interface	One 10M/ 100M Ethernet port			
Alarm interface	2 input and 2 output			
Other interfaces	1-channel RS485, audio 1 in 1 out			
<b>Environmental</b>				
Working temperature	-30°C to +60°C			
Working humidity	≤90%, non-condensing			
Encapsulation	IP67, surge protection (4KV) and static protection (4KVcontact/8KVair)			
<b>Physical</b>				
Size	≤317.5mm x 103 mm x 95.7 mm			
Net weight	≤1.3kg			
Installation mode	Top mounting/hoisting mounting/wall mounting			

