

COOLED INFRARED  
SCIENCE-GRADE  
CAMERA



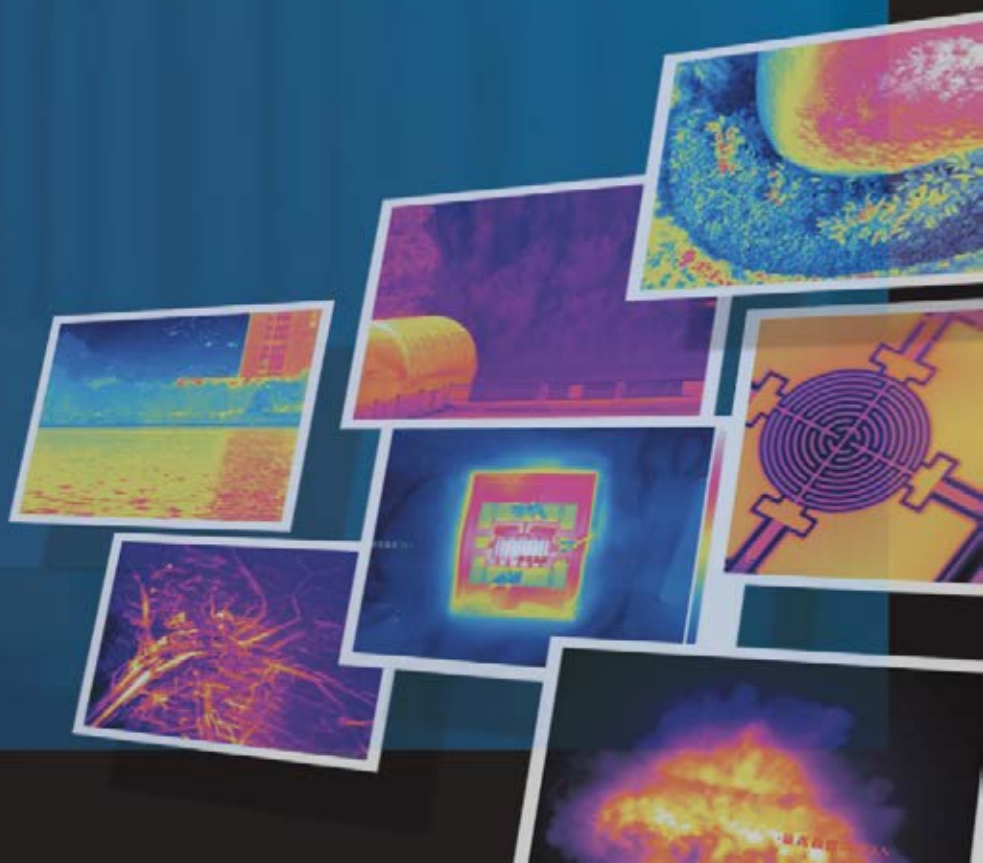
**RAYSART TECHNOLOGY**

RAYSART TECHNOLOGY

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# ABOUT US

Shanghai Raysart Technology Co. Ltd. is a world-leading manufacturer of cooled infrared cameras. It leverages its technological expertise and extensive management experience to deliver a diversified portfolio - **Cooled Infrared Science-Grade**

**Cameras.** These high-performance, ultra-reliable thermal cameras are widely used in:

- Aerospace
- Scientific research
- Industrial inspection
- Medical imaging

and other fields of advanced intelligent manufacturing.

The products have earned recognition from top-tier laboratories and industry-leading enterprises worldwide.

## OUR SERVICES



Optical  
System



Electronics  
& Signal  
Processing



Integrated  
System



Physical Models  
& Algorithms &  
Software



Industry-  
Specific  
Solutions

# WHAT DOES **SCIENCE-GRADE** MEAN?

## **OUTSTANDING PERFORMANCE**



- High frame rate, high sensitivity, low defective pixel ratio, and ultra-low noise level

## **ADVANCED FEATURES**



- Adjustable integration time with accurate temperature measurement
- Configurable trigger and frame count
- Phase-locked synchronization support
- Window mode at any position for enhanced frame rates
- Support for wide dynamic range solutions
- User-replaceable filters with accurate temperature measurement
- Capable of measuring low-emissivity objects
- Provide a cross-platform SDK, compatible with MATLAB, Python and other programming languages

## **TRANSPARENCY & PREDICTABILITY**



- Real-time monitoring of integration start/end and trigger delay
- Low-noise design – no temporal/spatial noise reduction algorithms applied

# PRODUCTS OVERVIEW

## COOLED INFRARED SCIENCE-GRADE CAMERA



640×512



F7S



640×512



F7 (131Hz)



F7E (225Hz)



F7H (406Hz)

1280×1024



F9/F9B



640×512



F7L

## COOLED INFRARED SCIENCE-GRADE MICROSCOPE



640×512



F7Micro

## COOLED INFRARED UAV-BORNE PAYLOAD



640×512



F7XM



640×512



F7XML

## COOLED SWIR SCIENCE-GRADE CAMERA

# MAG-F7S

*640×512 MCT Infrared Detector*  
*80K deep cooling, high SNR*  
*Up to 117Hz full-frame rate*  
*1000Hz in window mode*  
*1μm resolution with a macro lens*



### **640×512 MCT**

Equipped with a 640×512 MCT infrared detector with 80K deep cooling and high SNR

### **0.9-2.7μm**

0.9-2.7μm spectral range, smoke penetration, clear imaging under moon/airglow conditions, and daytime indoor observation

### **1μm**

Resolution up to 1μm with a macro lens

### **117Hz**

Full-frame rates up to 117Hz

### **1000Hz**

Enables window mode at any position; frame rate exceeds 1000Hz in window mode

### **100-3000°C**

Measures from 100°C to 3000°C ; accurate temperature measurement for low-emissivity objects

## IMAGE SENSOR

Detector Type	MCT
Spectral Range	0.9~2.7 $\mu$ m
Operating Temperature	80K deep cooling, startup time under 5 minutes
Frame Pixels & Rate (IMR)	117Hz (full frame: 640×512), >1000Hz (window mode)
Pixel Size	15 $\mu$ m
Typical NETD	≤ 50mK
Full Well Capacity	IWR 5.5Me <sup>-</sup> , ITR 6.5Me <sup>-</sup>
Programmable Integration Time	0.5 $\mu$ s~1s

## TEMPERATURE MEASUREMENT & IMAGING PERFORMANCE

ADC	16-bit
Temperature Range	100-3000°C
Temperature Accuracy	±2°C or ±2% (greater one)
Optional Lenses	25mm/50 mm/15× macro lens, etc.
ROI Mode	Global max/min tracking, global average, point, line, rectangle, circle, ellipse, polygon, etc.
Image Display	12 palettes, white hot, black hot, iron bow, rainbow, etc.

## DATA STORAGE

Built-in Storage Card	256GB
Temperature Data Saving	Full radiometric data in customized DDT or CSV format
Temperature Data Stream Saving	Full radiometric data stream in customized MGS format

## NETWORK CONNECTIVITY

Data Interface	Ethernet
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## ENVIRONMENTAL PARAMETERS

Operating Temperature	-20~50°C
Storage Temperature	-40~80°C
Ingress Protection Rating	IP54

## ELECTRICAL INTERFACE

Input/Output Synchronization	SYNC_IN/SYNC_OUT (TTL level)
Video Output	Ethernet, HDMI/Camera Link/SDI/CoaXPress (optional)
Power Supply	24V DC
Power Consumption	<20W

## PHYSICAL DIMENSIONS

Dimensions	177mm(L)×86mm(W)×93mm(H) (excluding lens and grip)
Weight	<2.5kg (including standard 25mm lens)

## COOLED MWIR SCIENCE-GRADE CAMERA

# MAG-F7/F7E

*640×512 InSb Infrared Detector  
Up to 131Hz/225Hz full-frame rate  
3000Hz in window mode  
3 $\mu$ m resolution with a macro lens*



### **640×512 InSb**

Equipped with a 640×512 InSb infrared detector with no additional defective pixels, delivering high-quality infrared images

### **1.5–5.3 $\mu$ m**

Standard spectral range: 3.7–4.8 $\mu$ m; optional ranges: 1.5–5.3 $\mu$ m, 3–5 $\mu$ m, or other possible bands

### **3 $\mu$ m**

Resolution up to 3 $\mu$ m with a macro lens

### **131/225Hz**

Full-frame rates up to 131Hz (F7) and 225Hz (F7E)

### **3000Hz**

Enables window mode at any position; frame rate exceeds 3000Hz in window mode

### **0.46/0.27 $\mu$ s**

Programmable integration time (0.46 $\mu$ s min for F7, 0.27 $\mu$ s min for F7E), providing clear hand contour visibility at room temperature

**IMAGE SENSOR**

Detector Type	InSb	
Spectral Range	Standard 3.7–4.8 $\mu$ m; optional 1.5–5.3 $\mu$ m, 3–5 $\mu$ m, or other possible bands	
Spectral Wheel	4-position motorized spectral wheel (1 inch filter)	
Frame Pixels & Rate	131Hz (full frame: 640 $\times$ 512) >3000Hz (window mode)	225Hz (full frame: 640 $\times$ 512) >3000Hz (window mode)
Pixel Size	15 $\mu$ m	
Typical NETD	$\leq$ 20mK	
Programmable Integration Time	0.46 $\mu$ s to maximum frame time	0.27 $\mu$ s to maximum frame time

**TEMPERATURE MEASUREMENT & IMAGING PERFORMANCE**

ADC	16-bit	
Temperature Range	-20–420 $^{\circ}$ C (extendable to 3000 $^{\circ}$ C )	-20–500 $^{\circ}$ C (extendable to 3000 $^{\circ}$ C )
Temperature Accuracy	Typical: $\pm$ 1 $^{\circ}$ C or $\pm$ 1% (greater one) at 0–1500 $^{\circ}$ C with calibrated integration time $\pm$ 2 $^{\circ}$ C or $\pm$ 2% in all temperature ranges (greater one)	
Temperature Stability	$\pm$ 0.2 $^{\circ}$ C or $\pm$ 0.2% (greater one)	
ROI Mode	Global max/min tracking, global average, point, line, rectangle, circle, ellipse, polygon, etc.	
Optional Lenses	12mm/25mm/50mm/1 $\times$ macro/5 $\times$ macro lens, etc.	
Image Display	12 palettes, white hot, black hot, iron bow, rainbow, etc.	

**DATA STORAGE**

Built-in Storage Card	256GB	
Temperature Data Saving	Full radiometric data in customized DDT or CSV format	
Temperature Data Stream Saving	Full radiometric data stream in customized MGS format	

**NETWORK CONNECTIVITY**

Data Interface	1000mbps Ethernet	
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**ENVIRONMENTAL PARAMETERS**

Operating Temperature	-20–50 $^{\circ}$ C	
Storage Temperature	-40–80 $^{\circ}$ C	
Ingress Protection Rating	IP54	

**ELECTRICAL INTERFACE**

Input/Output Synchronization	SYNC_IN/SYNC_OUT (TTL level)	
Video Output	Ethernet, HDMI/Camera Link/SDI/CoaXPress (optional)	
Power Supply	24V DC	
Power Consumption	<20W	

**PHYSICAL DIMENSIONS**

Dimensions	190mm(L) $\times$ 86mm(W) $\times$ 93mm(H) (excluding lens and grip)	
Weight	<2.5kg (including standard 25mm lens)	

## COOLED MWIR SCIENCE-GRADE CAMERA

# MAG-F7H

*640×512 InSb Infrared Detector  
Up to 406Hz full-frame rate  
3000Hz in window mode  
3 $\mu$ m resolution with a macro lens*



### **640×512 InSb**

Equipped with a 640×512 InSb infrared detector with no additional defective pixels, delivering high-quality infrared images

### **1.5–5.3 $\mu$ m**

Standard spectral range: 3.7–4.8 $\mu$ m; optional ranges: 1.5–5.3 $\mu$ m, 3–5 $\mu$ m, or other possible bands

### **3 $\mu$ m**

Resolution up to 3 $\mu$ m with a macro lens

### **406Hz**

Full-frame rates up to 406Hz

### **3000Hz**

Enables window mode at any position; frame rate exceeds 3000Hz in window mode

### **0.18 $\mu$ s**

Programmable integration time (0.18 $\mu$ s min), providing clear hand contour visibility at room temperature

## IMAGE SENSOR

Detector Type	InSb
Spectral Range	Standard 3.7–4.8 $\mu$ m; optional 1.5–5.3 $\mu$ m, 3–5 $\mu$ m, or other possible bands
Spectral Wheel	4-position motorized spectral wheel (1 inch filter)
Frame Pixels & Rate	406Hz (full frame: 640 $\times$ 512), >3000Hz (window mode)
Pixel Size	15 $\mu$ m
Typical NETD	$\leq$ 20mK
Programmable Integration Time	0.18 $\mu$ s to maximum frame time

## TEMPERATURE MEASUREMENT & IMAGING PERFORMANCE

ADC	16-bit
Temperature Range	-20–500 $^{\circ}$ C (extendable to 3000 $^{\circ}$ C)
Temperature Accuracy	$\pm$ 2 $^{\circ}$ C or $\pm$ 2% in all temperature ranges (greater one)
Temperature Stability	$\pm$ 0.2 $^{\circ}$ C or $\pm$ 0.2% (greater one)
ROI Mode	Global max/min tracking, global average, point, line, rectangle, circle, ellipse, polygon, etc.
Optional Lenses	12mm/25mm/50mm/1 $\times$ macro/5 $\times$ macro lens, etc.
Image Display	12 palettes, white hot, black hot, iron bow, rainbow, etc.

## DATA STORAGE

Built-in Storage Card	256GB
Temperature Data Saving	Full radiometric data in customized DDT or CSV format
Temperature Data Stream Saving	Full radiometric data stream in customized MGS format

## NETWORK CONNECTIVITY

Data Interface	2.5Gbps Ethernet
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## ENVIRONMENTAL PARAMETERS

Operating Temperature	-20–50 $^{\circ}$ C
Storage Temperature	-40–80 $^{\circ}$ C
Ingress Protection Rating	IP54

## ELECTRICAL INTERFACE

Input/Output Synchronization	SYNC_IN/SYNC_OUT (TTL level)
Video Output	Ethernet, HDMI/Camera Link/SDI/CoaXPress (optional)
Power Supply	24V DC
Power Consumption	<30W

## PHYSICAL DIMENSIONS

Dimensions	204mm(L) $\times$ 100mm(W) $\times$ 100mm(H) (excluding lens and grip)
Weight	<3.0kg (including standard 25mm lens)

## COOLED MWIR SCIENCE-GRADE CAMERA

# MAG-F9/F9B

*1280×1024 InSb Infrared Detector*

*>100Hz full-frame rate*

*>9000Hz (F9)/>4000Hz (F9B) in window mode*



### **1280×1024 InSb**

Equipped with a 1280×1024 InSb infrared detector with no additional defective pixels, delivering high-quality infrared images

### **1.5–5.3 $\mu$ m**

Standard spectral range: 3.7–4.8 $\mu$ m; optional ranges: 1.5–5.3 $\mu$ m, 3–5 $\mu$ m, or other possible bands

### **Spectral Wheel**

Built-in spectral wheel design, allowing integration of various spectral or neutral density filters

### **100/120Hz**

Full-frame rates up to >100Hz (F9)/>120Hz (F9B)

### **9000/4000Hz**

Enables window mode at any position; frame rate exceeds >9000Hz (F9)/>4000Hz (F9B) in window mode

### **High Precision Sync**

High-precision sync mode supports phase-locked loop (PLL) synchronization, providing precise temperature measurement and perfect identification

**IMAGE SENSOR**

Detector Type	InSb	
Spectral Range	Standard 3.7–4.8 $\mu$ m; optional 1.5–5.3 $\mu$ m, 3–5 $\mu$ m, or other possible bands	
Spectral Wheel	4-position motorized spectral wheel (1 inch filter)	
Frame Pixels & Rate	111Hz (full frame: 1280×1024) >9000Hz (window mode)	120Hz (full frame: 1280×1024) >4000Hz (window mode)
Pixel Size	10 $\mu$ m	15 $\mu$ m
Typical NETD	$\leq$ 25mK	$\leq$ 20mK
Programmable Integration Time	50ns to maximum frame time	

**TEMPERATURE MEASUREMENT & IMAGING PERFORMANCE**

ADC	16-bit	
Temperature Range	-20-250°C (extendable to 3000°C )	
Temperature Accuracy	$\pm$ 1.5°C or $\pm$ 1.5% (greater one)	Typical: $\pm$ 1°C or $\pm$ 1% (greater one) at 0-1500°C with calibrated integration time $\pm$ 2°C or $\pm$ 2% in all temperature ranges (greater one)
Temperature Stability	$\pm$ 0.3°C or $\pm$ 0.3% (greater one)	$\pm$ 0.2°C or $\pm$ 0.2% (greater one)
Optional Lenses	12mm/25mm/50mm/1× macro/5× macro lens, etc.	

**DATA STORAGE**

Built-in Storage Card	256GB	
Temperature Data Saving	Full radiometric data in customized DDT or CSV format	
Temperature Data Stream Saving	Full radiometric data stream in customized MGS format	

**NETWORK CONNECTIVITY**

Data Interface	2.5Gbps Ethernet	
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**ENVIRONMENTAL PARAMETERS**

Operating Temperature	-20-50°C	
Storage Temperature	-40-80°C	
Ingress Protection Rating	IP54	

**ELECTRICAL INTERFACE**

Input/Output Synchronization	SYNC_IN/SYNC_OUT (TTL level)	
Video Output	Ethernet, HDMI/Camera Link/SDI/CoaXPress (optional)	
Power Supply	24V DC	
Power Consumption	<45W	

**PHYSICAL DIMENSIONS**

Dimensions	203mm(L)×100mm(W)×100mm(H) (excluding lens and grip)	214mm(L)×100mm(W)×100mm(H) (excluding lens and grip)
Weight	<2.5kg (including standard 25mm lens)	<3.0kg (including standard 25mm lens)

# COOLED LWIR SCIENCE-GRADE CAMERA

## MAG-F7L

*640×512 T2SL Infrared Detector*

*>200Hz full-frame rate*

*>3000Hz in window mode*



### **640×512 T2SL**

Equipped with a 640×512 T2SL infrared detector with no additional defective pixels, delivering high-quality infrared images

### **7.7-10.8 $\mu$ m**

Standard spectral range: 7.7-10.5 $\mu$ m; optional ranges: 7.7-10.8 $\mu$ m, or other possible bands

### **Spectral Wheel**

Built-in spectral wheel design, allowing integration of various spectral filters

### **200Hz**

Full-frame rates up to >200Hz

### **3000Hz**

Enables window mode at any position; frame rate exceeds 3000Hz in window mode

### **High Precision Sync**

High-precision sync mode supports phase-locked loop (PLL) synchronization, providing precise temperature measurement and perfect identification

## IMAGE SENSOR

Detector Type	T2SL
Spectral Range	Standard 7.7-10.5 $\mu$ m; optional 7.7-10.8 $\mu$ m, or other possible bands
Spectral Wheel	4-position motorized spectral wheel (1 inch filter)
Frame Pixels & Rate	215Hz (full frame: 640 $\times$ 512), >3000Hz (window mode)
Pixel Size	15 $\mu$ m
Typical NETD	$\leq$ 25mK
Programmable Integration Time	45ns to maximum frame time

## TEMPERATURE MEASUREMENT & IMAGING PERFORMANCE

ADC	16-bit
Temperature Range	-20-250 $^{\circ}$ C (extendable to 3000 $^{\circ}$ C)
Temperature Accuracy	Typical: $\pm$ 1 $^{\circ}$ C or $\pm$ 1% at 0-1500 $^{\circ}$ C (greater one) $\pm$ 2 $^{\circ}$ C or $\pm$ 2% in all temperature ranges (greater one)
Temperature Stability	$\pm$ 0.3 $^{\circ}$ C or $\pm$ 0.3% (greater one)
ROI Mode	Global max/min tracking, global average, point, line, rectangle, circle, ellipse, polygon, etc.
Optional Lenses	12mm/25mm/50mm/1 $\times$ macro/5 $\times$ macro lens, etc.
Image Display	12 palettes, white hot, black hot, iron bow, rainbow, etc.

## DATA STORAGE

Built-in Storage Card	256GB
Temperature Data Saving	Full radiometric data in customized DDT or CSV format
Temperature Data Stream Saving	Full radiometric data stream in customized MGS format

## NETWORK CONNECTIVITY

Data Interface	1Gbps Ethernet
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## ENVIRONMENTAL PARAMETERS

Operating Temperature	-20-50 $^{\circ}$ C
Storage Temperature	-40-80 $^{\circ}$ C
Ingress Protection Rating	IP54

## ELECTRICAL INTERFACE

Input/Output Synchronization	SYNC_IN/SYNC_OUT (TTL level)
Video Output	Ethernet, HDMI/Camera Link/SDI/CoaXPRESS (optional)
Power Supply	24V DC
Power Consumption	<20W

## PHYSICAL DIMENSIONS

Dimensions	189mm(L) $\times$ 86mm(W) $\times$ 93mm(H) (excluding lens and grip)
Weight	<2.5kg (including standard 25mm lens)

# COOLED MWIR SCIENCE-GRADE MICROSCOPE

## MAG-F7Micro

*640×512 InSb Infrared Detector*  
*Up to 131Hz/225Hz full-frame rate*  
*≤ 20mk NETD*  
*1.875μm resolution*  
*Emissivity measurement*



### **640×512 InSb**

Equipped with a 640×512 InSb infrared detector with no additional defective pixels, delivering high-quality infrared images

### **1.5–5.3μm**

Standard spectral range: 3.7–4.8μm; optional ranges: 1.5–5.3μm, 3–5μm, or other possible bands

### **1.875μm**

- Compatible with 1–8× macro lenses;
- Resolution up to 1.875 μm;
- Supports multi-lens switching

### **131/225/406Hz**

Full-frame rates up to 131Hz/225Hz/406Hz; enables window mode at any position

### **≤ 20mk**

NETD ≤ 20mK, significantly improves detection sensitivity for weak signals

### **Measurement**

Supports emissivity measurement, accurate temperature measurement of low-emissivity objects

## IMAGE SENSOR

Detector Type	InSb
Spectral Range	Standard 3.7–4.8 $\mu$ m; optional 1.5–5.3 $\mu$ m, 3–5 $\mu$ m, or other possible bands
Spectral Wheel	4-position motorized spectral wheel (1 inch filter)
Frame Pixels & Rate	131/225/406Hz (full frame: 640 $\times$ 512)
Pixel Size	15 $\mu$ m
Typical NETD	$\leq$ 20mK
Programmable Integration Time	0.46 $\mu$ s to maximum frame time

## TEMPERATURE MEASUREMENT & IMAGING PERFORMANCE

ADC	16-bit
Temperature Range	-20–420 $^{\circ}$ C (extendable to 3000 $^{\circ}$ C)
Temperature Accuracy	$\pm$ 2 $^{\circ}$ C or $\pm$ 2% in all temperature ranges (greater one)
Temperature Stability	$\pm$ 0.2 $^{\circ}$ C or $\pm$ 0.2% (greater one)
ROI Mode	Global max/min tracking, global average, point, line, rectangle, circle, ellipse, polygon, etc.
Optional Lenses	1–8 $\times$ macro lenses
Image Display	12 palettes, white hot, black hot, iron bow, rainbow, etc.

## DATA STORAGE

Built-in Storage Card	256GB
Temperature Data Saving	Full radiometric data in customized DDT or CSV format
Temperature Data Stream Saving	Full radiometric data stream in customized MGS format

## NETWORK CONNECTIVITY

Data Interface	1Gbps/2.5Gbps Ethernet
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## ENVIRONMENTAL PARAMETERS

Operating Temperature	-20–50 $^{\circ}$ C
Storage Temperature	-40–80 $^{\circ}$ C
Ingress Protection Rating	IP54

## ELECTRICAL INTERFACE

Input/Output Synchronization	SYNC_IN/SYNC_OUT (TTL level)
Video Output	Ethernet, HDMI/Camera Link/SDI/CoaXPress (optional)
Power Supply	24V DC
Power Consumption	<70W (including console mount)

## PHYSICAL DIMENSIONS

Dimensions	450mm(L) $\times$ 450mm(W) $\times$ 800mm(H) (including console mount)
Weight	15kg (including console mount)

## COOLED INFRARED UAV-BORNE PAYLOAD

# MAG-F7XM/F7XML

*Integrated with 3-axis gimbal  
Mountable on DJI drones  
640×512 InSb/T2SL Infrared Detector  
>100/200Hz full-frame rate*



### **640×512 InSb/T2SL 3.7-10.8 $\mu$ m**

Equipped with a 640×512 InSb (F7XM)/640×512 T2SL (F7XML) infrared detector, delivering high-quality infrared images

Standard spectral range: 3.7–4.8 $\mu$ m (F7XM)/7.7–10.5 $\mu$ m (F7XML);  
Optional ranges: 1.5–5.3 $\mu$ m(F7XM)/7.7–10.8 $\mu$ m(F7XML)

### **UAV Payload**

Integrated with 3-axis gimbal, directly mountable on DJI M300/M350 drones, compatible with DJI transmission protocol

### **100/200Hz**

Full-frame rates of >100Hz (F7XM)/>200Hz (F7XML)

### **256G**

Built-in 256GB high-capacity storage card for data recording and playback

### **1.5kg**

Lightweight design, total weight (including lens)  $\leq$  1.5kg, adaptable to various UAV application scenarios

**F7XM****F7XML****IMAGE SENSOR**

Detector Type	InSb	T2SL(SLS)
Spectral Range	Standard 3.7–4.8 $\mu$ m; optional 1.5–5.3 $\mu$ m	Standard 7.7-10.5 $\mu$ m; optional 7.7-10.8 $\mu$ m
Frame Pixels & Rate	131Hz (full frame: 640×512)	215Hz (full frame: 640×512)
Pixel Size		15 $\mu$ m
Typical NETD	$\leq$ 20mK	$\leq$ 25mK
Programmable Integration Time	460ns to maximum frame time	45ns to maximum frame time

**TEMPERATURE MEASUREMENT & IMAGING PERFORMANCE**

ADC		16-bit
Temperature Range		-20–250°C (extendable to 3000°C)
Temperature Accuracy		$\pm$ 1°C or $\pm$ 1% (greater one)
Temperature Stability		$\pm$ 0.3°C or $\pm$ 0.3% (greater one)
ROI Mode		Global max/min tracking, global average, point, line, rectangle, circle, ellipse, polygon, etc.
Optional Lenses		25mm, 50mm (for other lenses, please contact us)
Image Display		12 palettes, white hot, black hot, iron bow, rainbow, etc.

**DATA STORAGE**

Built-in Storage Card		256GB
Temperature Data Saving		Full radiometric data in customized DDT or CSV format
Temperature Data Stream Saving		Full radiometric data stream in customized MGS format

**NETWORK CONNECTIVITY**

Data Interface		Ethernet, DJI Interface
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**ENVIRONMENTAL PARAMETERS**

Operating Temperature		-20–50°C
Storage Temperature		-40–80°C
Ingress Protection Rating		IP54

**ELECTRICAL INTERFACE**

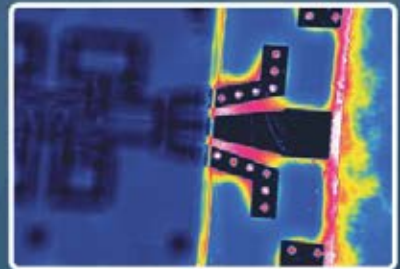
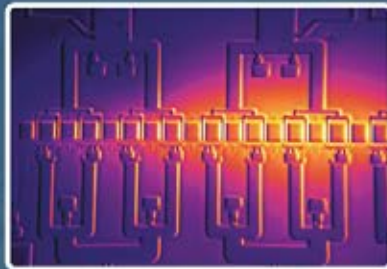
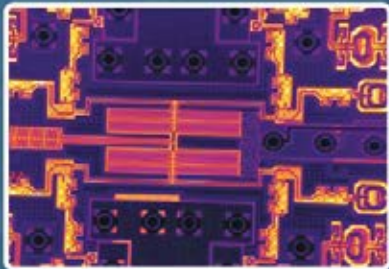
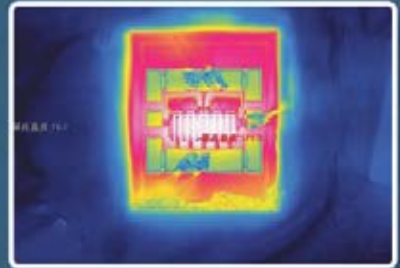
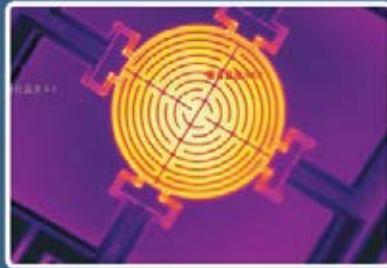
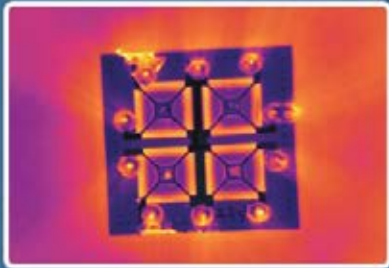
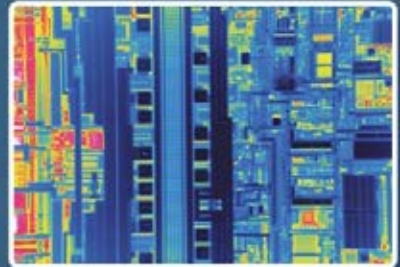
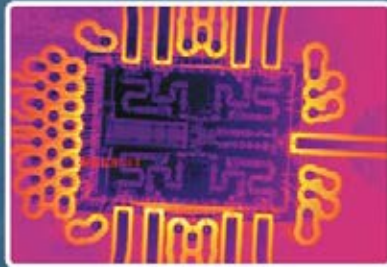
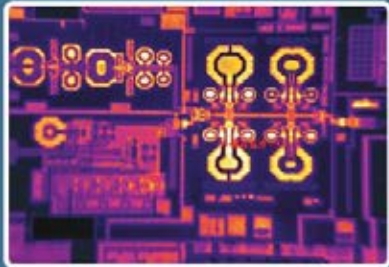
Control Signal		DJI Interface
Video Output		1Gbps Ethernet, DJI Interface
Power Supply		DJI Interface
Power Consumption		<50W (including gimbal)

**PHYSICAL DIMENSIONS**

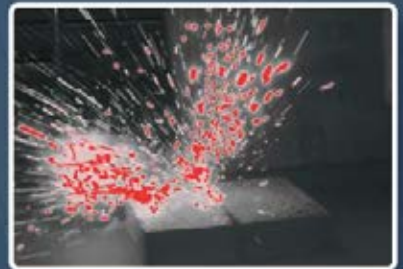
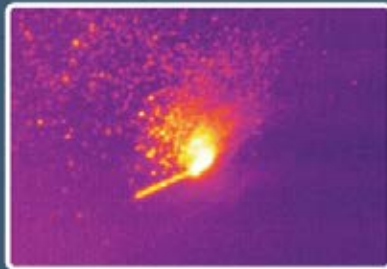
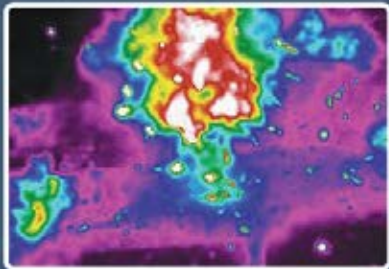
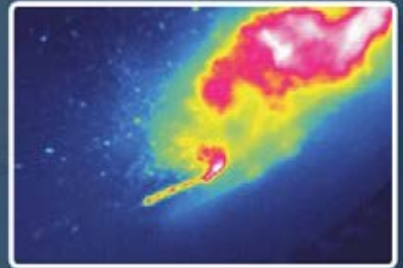
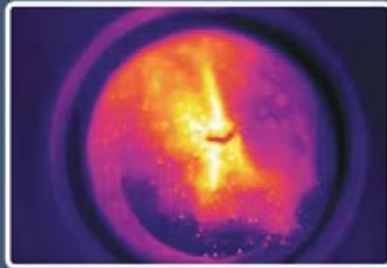
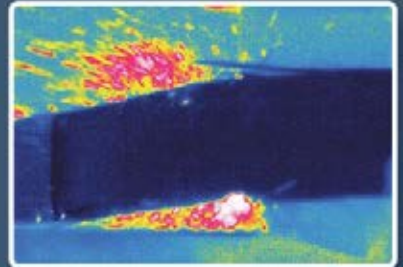
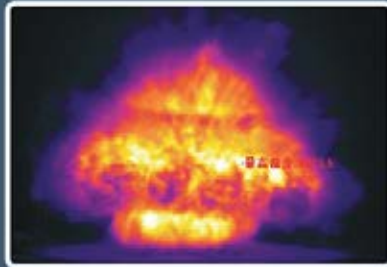
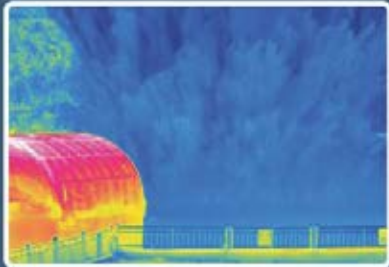
Dimensions		235mm(L)×129mm(W)×153mm(H) (including 25mm lens)
Weight		<1.5kg

# APPLICATIONS

## ELECTRONICS TESTING



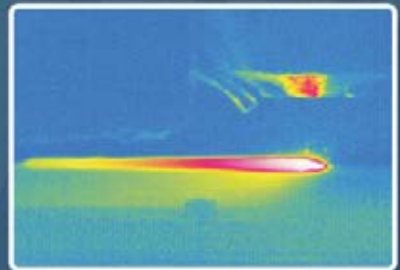
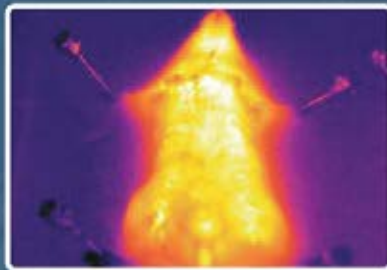
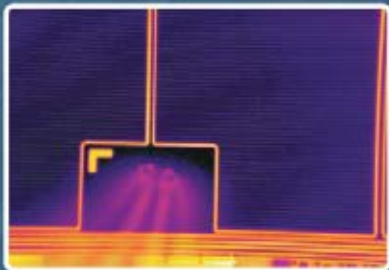
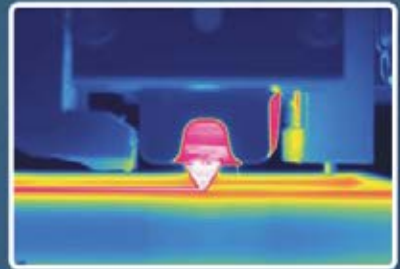
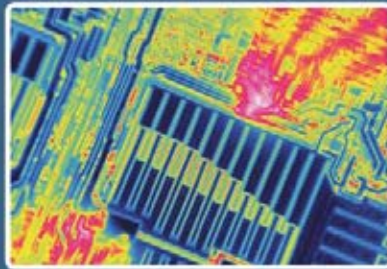
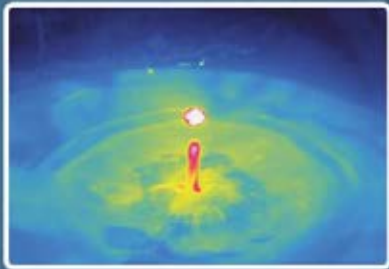
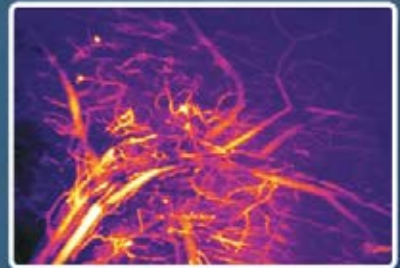
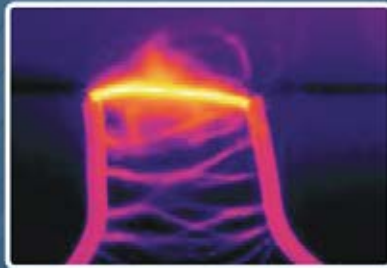
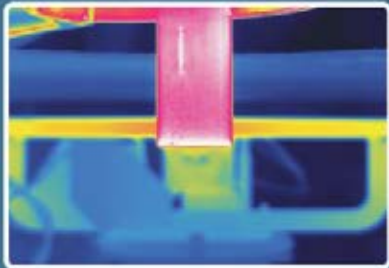
# HIGH SPEED IMAGING



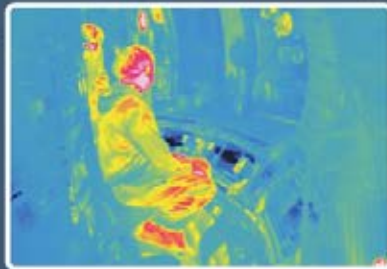
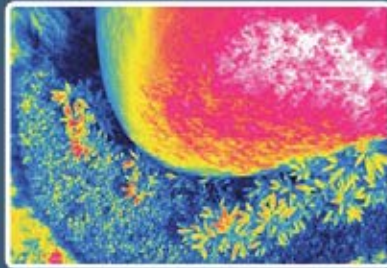
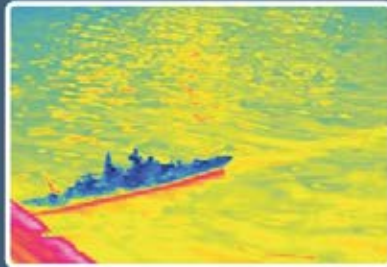
# APPLICATIONS



## SCIENTIFIC RESEARCH



## ((φ)) TARGET DETECTION



# SOFTWARE AND TECHNICAL

## SOFTWARE



### SOFTWARES

**ThermoX/SDK** Professional online Software/SDK  
**ThermoScope** Offline Image Analysis Software

### FUNCTIONS

Measurement

Data  
Recording

Visible Light Camera &  
Gimbal Control

Display  
Enhancement

Alarm &  
Logging

Software Expansion &  
Integration

# SUPPORT

## TECHNICAL SUPPORT



### PROFESSIONAL TRAINING

Equipment/Software Training - Helping users maximize product functionality and value



### ENHANCED SERVICES

SDK Support - Enabling software development with SDKs



### INTEGRATED SOLUTIONS

Cloud & AI Solutions - Offering machine learning algorithms, modeling, integrated solutions



### CUSTOMIZED FEATURES

Customized Services - Tailoring hardware and software to meet specific user needs



### RAPID RESPONSE

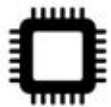
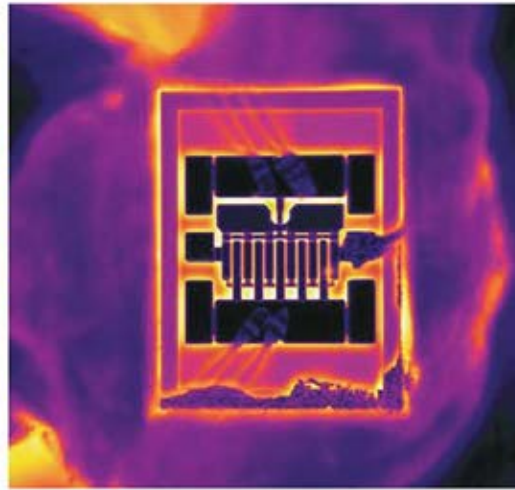
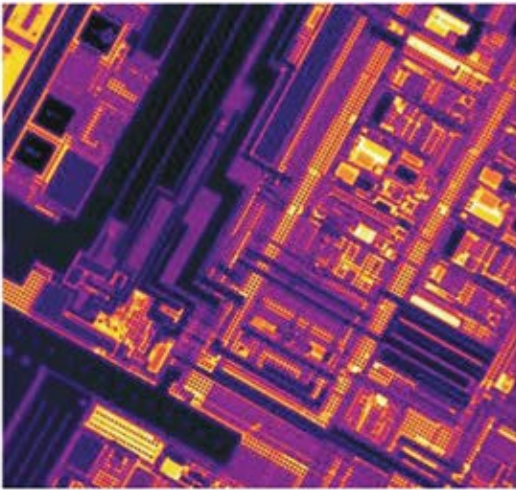
24/7 Rapid Support - Immediate response and efficient technical assistance

Note: All parameters in this manual are for reference only and are subject to change. Please refer to the product upon shipment. For other configurations, please contact us.



**RAYSART TECHNOLOGY**

COOLED INFRARED  
SCIENCE-GRADE  
CAMERA



**THIS-camera**

IMAGING AT THE EXTREMES

