



F300 Series

Thermal Camera for Firefighting



Able to Work Under 250°C

- IP67 waterproof, 2m drop protection, safe battery



Measurement Accuracy of $\pm 2^{\circ}\text{C}$ or $\pm 2\%$

- Measurement range of -40°C ~ $+2000^{\circ}\text{C}$, able to be used not only for fire rescue but also for fire-related detection



Various Color Palettes for Different Scenarios

- Extraordinary images help firefighters easily navigate through dense smoke



Thermal Images and Video Storage Function

- Storage 10,000+ images or videos of 16 hours long in total, with files available for playback on computers

Technical Parameters

technical parameter	F300
Infrared Parameters	
Detector Resolution	384×288
Temperature Resolution	0.06°C@30°C
Spatial Resolution	2.1mrad
Display Screen	4-inch LCD screen
Detector Material	VOx
Spectral Range	7.5~14μm
Lens	44.2°x33.9°Ge lens
Depth-of-Field	0.5 m to infinity
Image Frame Rate	25Hz
Measurement Parameters	
Measurement Range	-40°C~150°C (Low temperature mode), 0°C~410°C (Medium temperature mode), 300°C~2,000°C (High temperature mode), Auto switch
Measurement Accuracy	±2°C or ±2% of the reading
Auto Tracking	Automatically tracking the highest temperature spot
Imaging Display	
Palette	10 palettes including Iron, gray, Iron inv, Gray inv
Screen Parameter	4-inch sunlight-readable screen, 320×240 resolution, LCD
Infrared Video Recording	
Recording Duration	4-hour continuous recording
Storage	
Storage Mode	32GB high-speed flash memory card (approximately more than 10,000 infrared images can be stored)
Thermal Image/Video	.jpg & H.264 video
Wireless transmission	
4G wireless transmission	Optional
Digital Zoom	
Digital Zoom	2× or 4×
Power Supply System	
Battery Type	Explosion-proof removable and rechargeable lithium-ion battery
Supply Voltage	DC12V
Battery Life	4 consecutive hours
Physical Parameters	
Weight	1.2 kg
Dimensions	300 mm (L)×131 mm (W)×128 mm (H)
Heat-Resistant Material	PPSU silicone rubber, aluminum oxide
Flame retardant grade	UL94-HB
Application Environment Parameters	
Operating Time in Certain Temperatures	80°C: 30 minutes;120°C: 10 minutes; 260 ° C: 5 minutes
Encapsulation	IP67
Drop	2 m

■ The information is for illustration only. Images and technical specifications contained herein are subject to changes without notice.

Note: The actual weight may vary depending on the configuration, manufacturing process, and measurement method.

Company Profile

IRay Technology Co., Ltd. concentrates on developing infrared thermal imaging technologies and manufacturing relevant products, with completely independent intellectual property rights. IRay is committed to providing global customers with professional and competitive infrared thermal imaging products and solutions. The main products include IRFPA detectors, thermal imaging modules, and terminal products.

With R&D personnel accounts for 48% of all employees, 745 intellectual property projects in terms of IRay have been authorized and accepted: 592 patented technologies authorized and accepted in China (including those for integrated circuit chips, MEMS sensors design and manufacture, Matrix III image algorithms and intelligent precise temperature measurement algorithms, etc.); 16 patented technologies authorized and accepted overseas; 98 software copyrights; and 39 integrated circuit layout designs.

IRay products have been applied in various fields, including night vision observation, epidemic prevention and control, intelligent industry, outdoor observation, automatic driving, Internet of Things, AI, and machine vision.

Tel.: +86-400-998-3088
E-mail: sales@infray.com
Website: www.infray.com

