

# Grasp the Vitality of the Fire Scene

PR Series Firefighter Thermal Camera

#### Introduction

The PR series dual-purpose thermal imaging camera for rescue and detection empowers a new perspective for firefighters. It combines high resolution, a large display screen, multiple scene modes, temperature analysis functions, and a strong protection rating, which can break through the limitations of harsh environments such as high temperatures, high humidity, and thick smoke in fire scenes to help firefighters see the surrounding environment quickly and clearly, locate the fire and search for trapped individuals more accurately, providing users with more efficient and safe fire visualization solutions.

Guide

### **Features**

- 640x480 or 384x288 resolution infrared detectors for clear thermal maps
- Six image modes such as basic firefighting/fire scenes/search and rescue, etc.
- IP67 and 2-meter drop, function fully for up to 5 minutes at 260°C
- One-click quick saving of images and videos with smooth storage
- support temperature analysis and over-temperature alarms with -20°C to 2000°C measurement range

#### **Applications**





Fire reconnaissance





Search and rescue

Fire inspection

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## **Specifications**

Product model	PR410	PR610	
Imaging and optics			
Detector type	V0x, 7.5 to 14µm		
Infrared resolution	384×288@12µm	640×480@12µm	
NETD	≤45 mK		
Frame rate	30 Hz / 9 Hz		
Focal length	9 mm		
Field of view		50°×37°	
IFOV	2.3mrad	1.25mrad	
Min. object distance		0.5m	
D:S	435:1	800:1	
Focusing mode	Focus-free		
Digital zoom	2x/ 4x/ 8x		
Shot recognition	Auto		
Measurement and analysis		, alo	
Measurement range	Support auto-switching: -20°C to 150°C, 0°C to 650°C, Optional 500°C to 2000°C (Aperture is required)		
Measurement accuracy	$\pm 2^{\circ}$ C or $\pm 2\%$ , whichever is greater		
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Analyzed target	Three spots: Center, Maximum temperature, Minimum temperature; Three Fixed Areas: Small, Medium, Large (Alternative)		
Tracking / Alarm	Full screen maximum and minimum temperature tracking; The maximum and minimum temperature tracking of analyzed target; full screen temperature threshold alarm (Vibration, Screen flicker, Buzzer)		
Parameter settings	Emissivity, reflected temperature, target distance, humidity, atmospheric transmittance		
Image display			
Display screen	4.3" LCD, 800×480 Pixel		
Image mode	6 Modes: Basic fire fighting, Black and white, Fire scene, Search and rescue, Thermal detection, Standard		
Image adjustment	Automatic		
Color palettes	Black Hot, White Hot, Iron Red, Arctic, Hot Iron, Rainbow 1, Fulgurite, Tint (Alternative palettes are supported only in Standard mode)		
Functions		,	
Recording function	Photo and Video		
Others	OTA update		
Storage and transmission		· · · · · · · · · · · · · · · · · · ·	
Storage media	Local storage (128 GB)		
Image storage	JPG with temp info		
Video storage	MP4 format (without temp info); Irgd (with temp info), up to 20 Hz (optional) for temperature analysis		
External interface	Type-C, Micro HDMI, UNC ¼"-20 (Tripod mounting)		
WIFI	Yes, it can be connected to the mobile terminal for image and real-time video transmission		
Power system			
Battery type	Lithium-ion rechargeable battery		
Operating time	≥4 hours		
1 3	The device can be charged through desktop charger after shutdown.		
Charging mode	90% of full charge in 2.5 hours		
Charging time		90% of full charge in 2.5 hours	
Environmental parameters	Conoral Working tomperature ranges 1000	to +5000, Spacific Working temperature ranges: 0000, 20 minutes, 10000, 10	
Working temperature	General working temperature range: -10°C	to +50°C; Specific Working temperature ranges: 80°C: 30 minutes, 120°C: 10 minutes, 260°C: 5 minutes	
Storage temperature	-40°C to 85°C		
IP rating	IP67		
Drop	2m drop test		
Certification	CE	, FCC, ROHS, UL, UN38.3, MSDS, NFFE	
Physical parameters			
Hardware	WIFI, Speaker		
Weight	≤1.3kg (with battery)		
weight		296×61×76.5 mm	
Size		296×61×76.5 mm	
	PC: Therm	296×61×76.5 mm ioTools; Mobile: Thermography (iOS/Android)	
Size	A device (with lens), Lens cover, Lithium-ion UK, Australia and Europe), TYPE-C USB cal		