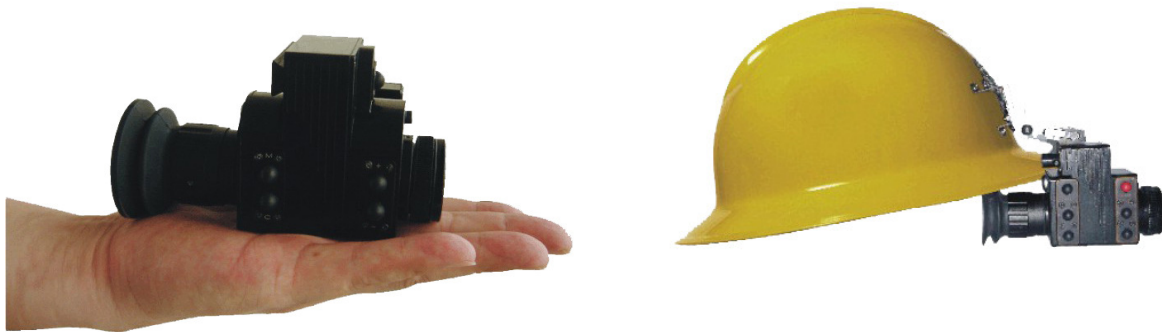


armstrong optical

Thermal imager IR528

Weighing less than 300g and palm sized, the IR528 is one of the smallest and lightest thermal imaging systems available on the market. It features instant-on imaging, accurate spot temperature measurement and simple intuitive control, and can therefore be used as either a hand-free viewer or a portable monocular. The ability to operate in thick smoke, dense fog and total darkness makes it the ideal system for firefighting, field observation and 24-hour security.



- **Small & light**
Weighing < 300g and palm-sized, the IR528 is one of the smallest and lightest thermal imagers available.
- **Rugged housing & reliable durability**
Incorporating an FPA, electronics and IR optics into a hardened and rugged housing, the imager is resistant to most harsh environmental conditions and is suitable for firefighting, public safety, law enforcement and many other applications.
- **No need for illumination or image intensification**
The imager has an indisputable advantage over visible cameras and intensified night vision goggles. It can operate in thick smoke, dense fog, low light conditions and even total darkness with no need of external illumination.
- **Latest uncooled FPA technology**
Utilising the latest generation FPA, the imager offers higher sensitivity and higher resolution than older generation systems, delivering sharp images even for objects at long distance.
- **Accurate temperature measurement**
The imager allows the temperature measurement of any object being viewed in a non-contact mode. With a cursor in the center of the thermal image, you can measure and analyze the temperature at a single point with an accuracy of $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading.
- **Flexible and versatile application**
Thanks to the compact size and easy operation, the imager can be used as a hand-free viewer or a portable monocular, accordingly equips firefighters, policemen, hunting fanciers and security professionals to efficiently fulfill their missions.

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Imager Performance

Detector type:	Uncooled FPA, 160×120 pixels
Spectral range:	8 - 14µm
Lens system:	6.87mm, f/0.8 (45mm, f/1.0 option)
Field of View:	32.4°×24.6° (5.1°×3.8° optional)
Image frequency:	50/ 60Hz
Electronic zoom:	×2

Image Presentation

Display:	OLED viewfinder, 256 grey levels
Video output:	PAL/NTSC
Gain & offset:	Auto & manual

Temperature Measurement

Measurement mode:	Single spot measurement
Accuracy:	±2°C or ±2% of reading

Power

Rechargeable battery:	4.2V
Power consumption:	2.5W
Operating time:	>2.5h

Environmental Specifications

Operating temperature:	-20 °C ~+50 °C
Storage temperature:	-40 °C ~+60 °C
Humidity Operating and storing:	10% - 95%, non-condensing

Interfaces

Video/Power:	Analog video output/power input
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Physical Characteristics

Weight:	275g (optional lens +245g)
Size:	148mm×50mm×70.5mm