

DT-9770/9771/9772

High Performance Thermal Imagers



9770 Series new generation High Performance Thermal Imagers built-in Android system and with powerful Auto Fusion mode(AUF), AUF is a dynamic image enhancement-algorithm for infrared cameras. 9770 Series are easy to help you to find the potential problems with innovation features and powerful Apps.

Built-in Android system
IR resolution 640x480 (9772)

Key features

- 640x480 High Performance Thermal Imager with high resolution TFT color LCD display
- Good image quality and stable built-in Android system.
- Capture additional measurements fast and conveniently with wireless modules
- Find problems faster and easier with accurately identify potential issues by combining digital and IR images
- Picture in Picture function displays thermal image super-imposed over a digital image
- LED Flashlight allows the visual camera and fusion to be used in poorly lit environments
- ±2% Accuracy for reliable temperature measurement
- Capacitive touch screen is easier, productive and effective to operate it
- An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Powerful Auto Fusion mode(AUF)
- Equipped with standard video, USB outputs as well as a removable SD card.

Worldwide Patent:
PCT/CN2016/079015



EMC
EN: 61326-1
EN: 61010-1



Wi-Fi



**Wi-Fi Connectivity/
Bluetooth Communication**

Model: 9770

Specifications		9770	9771	9772
Imaging and optical data				
IR resolution	focal plane array (FPA), uncooled microbolometer	160x120	384x288	640x480
Field of View (FOV)	29.8° × 22.6°	29.8°x22.6°	24.6°x18.6°	24.6°x19.8°
Spatial resolution (IFOV)		3.78mrad	1.15mrad	0.77mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK	*	*	*
Image frequency	50Hz	*	*	*
Focus	Manual	*	*	*
Image presentation				
Display	3.5" TFT , capacitive touch screen	*	*	*
Image modes	IR image, visual image, picture in picture	*	*	*
Color palettes	GRAY/GRAY IRON/IRON/RAINBOW/FEATHER	*	*	*
Measurement				
Object temperature range	Low range: -20°C to +150°C (-4°F to +302°F) High range: 0°C to +450°C (+32°F to +842°F)	*	*	*
Accuracy	±2°C (±3.6°F) or ±2% of reading	*	*	*
Measurement analysis				
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks	*	*	*
Set-up				
Laser / floodlight	< class2 / white LED floodlight	*	*	*
Set-up commands	Local adaptation of units, language, date and time formats, information of camera	*	*	*
Language selection	English, Chinese, French, German, Spanish	*	*	*
Storage of videos/images				
Storage media	8Gbytes Micro SD card	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	*	*	*
Digital camera				
Built-in visible light digital camera	2M Pixels	*	*	*
Data communication interfaces				
USB interfaces	USB-mini, data transform between camera and PC remote control, live video	*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	*	*	*
Power system				
Battery	Lithium polymer battery, 4 hours operating time	*	*	*
Input voltage	DC 9V to 12V	*	*	*
Charging system	In camera (AC adapter)	*	*	*
Power management	Automatic shutdown and sleep mode (user selectable)	*	*	*



Auto Fusion mode (AUF)
A dynamic image enhancement-algorithm for infrared cameras

Full Infrared



Size(HxWxD): 243mm x 103mm x 160mm **Weight:** 920g

Accessories: Hard transport case, 7.5mm lens, Sun Visor, Tripod base, AC charger/Power supply, Battery, software CD-ROM, Handstrap, micro SD card, USB cable & RCA cable, Gift box.

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