



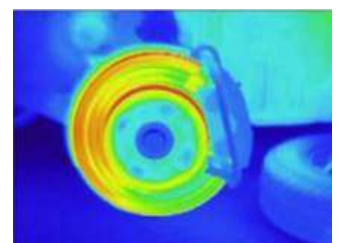
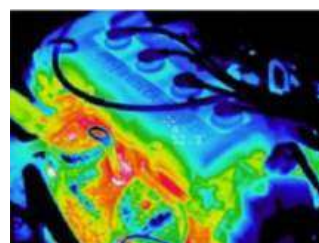
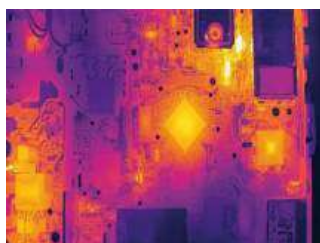
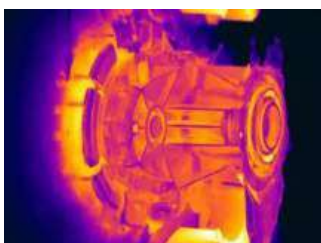
INFRARED AND THERMAL INSTRUMENTS

SCIENCE-GRADE INFRARED THERMAL IMAGER

FIR 384 FIR 640 FIR 1024



Optional lens : 48° /12° /6° 、
macro lens 1.25x 、 macro lens 3x





SPECIFICATIONS

Model	FIR 384	FIR 640	FIR 1024
Detector type	Uncooled FPA		
Detector material	Amorphous silicon or VOX material		
Spectral Range	8-14μm		
IR Resolution	384x288	640x480	1024x768
Thermal Sensitivity/NETD	≤ 0.06℃ (@30℃)	≤ 0.04℃ (@30℃)	≤ 0.05℃ (@30℃)
Standard lens	28°	24°	28°
Spatial resolution (IFOV)	1.30mrad (28° lens); 2.26mrad (48° lens); 0.68mrad (12° lens); 0.34mrad (6° lens)	0.66mrad (24° lens); 1.39mrad (48° lens); 0.33mrad (12° lens); 0.16mrad (6° lens)	0.48mrad (28° lens); 0.92mrad (50° lens); 0.24mrad (14° lens); 0.12mrad (7° lens)
Focus distance	0.5m to infinity(Standard lens), 30mm~200mm (macro lens)		
Focus	Manual, electric, automatic focus		
Optional lens	6°, 12°, 48°, Macro lens 3x, Macro lens 1.25x		
Temperature measurement			
Object temperature range	-40℃~+150℃ (low temperature range)/0℃~+410℃ (medium temperature range)		
Optional temperature range	+300℃~+2000℃ (high temperature range)		
Temperature measurement accuracy	±2℃ or ±2% of readings		
Power supply and interface			
Battery voltage	DC 12V		
Operating power consumption	≤ 5W	≤ 7W	≤ 8W
Data stream	Total radiation temperature flow		
Data analysis	Standard PC network equipment analysis and processing software		
Data transmission mode	100/1000M Ethernet transmission		
Power interface	ϕ 5.5 DC power interface		
Network interface	RJ45 interface		
Other interfaces (Optional)	485 communication interface, relay switch, synchronous trigger, analog video, micro SD card interface		
General parameters			
Working temperature	-20℃~50℃		
Working humidity	≤ 90%RH		
Storage temperature	-40℃~70℃		
Tripod mounting interface	UNC ¼"-20		
Size	226.8mm x 91mm x 86.5mm		
Weight	≤ 1kg		