



640 X 480 / 480 X 360 / 384 X 288 / 320 X 240 / 256 X 192  
Detectors with Super Resolution on 4.3inch LCD Screen



State Of Art Engineering & Design





Model	STEK Ti256	STEK Ti320	STEK Ti384	STEK Ti480	STEK Ti640
<b>Imaging and optics</b>					
Detector type	VOx, 7.5 to 14μm				
Infrared resolution	256 × 192@12μm	320 × 240@12μm	384 × 288@12μm	480 × 360@12μm	640 × 480@12μm
Super resolution	Yes, Upgrade to 512 × 384	Yes, Upgrade to 640 × 480	Yes, Upgrade to 768 × 576	Yes, Upgrade to 960 × 720	Yes, Upgrade to 1280 × 960
NETD	≤45 mK				≤40 mK
Infrared frame rate	30 Hz / 9 Hz				
Focal length	10.5 mm			17.7 mm	
Field of view	25° × 19° <a href="https://stek.in/field-of-view-calculator">https://stek.in/field-of-view-calculator</a>				
IFOV	1.70mrad	1.36mrad	1.13mrad	0.91mrad	0.68mrad
Minimum object distance	0.1m		0.15m		
D:S	588:1	735:1	885:1	1099:1	1470:1
Focusing mode	Manual / Automatic / Continuous autofocus				
Digital zoom	1.1x to 8x		1.1x to 10x	1.1x to 16x	1.1x to 20x
Shot recognition	Auto				
<b>Measurement and analysis</b>					
Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C	Support auto-switching: -40°C to 150°C, 0°C to 650°C, Optional 500°C to 2000°C (High temperature lens is required)			
Measurement accuracy	±2°C or ±2%, whichever is greater				
Analyzed target	Spot×5, Line×5, Area×5	Spot×8, Line×8, Area×8	Spot×10, Line×10, Area×10	Spot×12, Line×12, Area×12	Spot×16, Line×16, Area×16
Tracking / Alarm	Full screen maximum, minimum and average temperature tracking; The maximum, minimum and average temperature tracking of analyzed target; full screen temperature threshold alarm (image, voice and flash)				
Temperature measuring parameters	Emissivity, reflected temperature, target distance, humidity, atmospheric transmittance, optical transmittance, dew point				
Others	Isothermals, Smart Stroke, Intelligently calculate the area				
<b>Image display</b>					
Display screen	4.3', 800×480 pixel touchscreen LCD				
Digital camera	5 MP		8 MP		13 MP
Image mode	IR, VIS, MIF, PIP				
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual				
Color palettes	White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, Tint, Black Hot, Blue Hot, Sepia, Green Hot, Ice and Fire, Amber, Customized				
<b>Functions</b>					
Recording function	Photo and video (infrared & visible light)		Photo (image stitching) and video (infrared & visible light)		
Cloud Services	Available				
Others	Customized physical button, Intelligent diagnosis, OTA update				
<b>Storage and transmission</b>					
Storage media	Local storage (64 GB) and external SD card (64 GB and up to 256 GB)				
Image storage	JPG with temp info				
Video storage	MP4 format (without temp info) can be used to record audio synchronously; Irgd (with temp info), up to 30 Hz (optional) for temperature analysis				
External interface	Type-C, SD card slot, UNC ¼"-20 (Tripod mounting)				
WIFI	Yes, it can be connected to the mobile terminal for image and real-time video transmission				
Bluetooth	Bluetooth 5.0, support image transmission (only for Android)				
<b>Power system</b>					
Battery type	Lithium-ion rechargeable battery				
Battery working time	≥5 hours			≥4 hours	
Charging mode	TYPE-C charging; PC/portable charger; Capable of charging while using				
Charging time	90% of full charge in 2.5 hours				
<b>Environmental parameters</b>					
Working temperature	-20°C to 50°C				
Storage temperature	-40°C to 60°C				
IP rating	IP54				
Drop	2m drop test				
Certification	CE, FCC, ROHS, KCC, Anatel, Damp heat test, Vibration test, Shock test, Impact test, UN38.3, MSDS				
<b>Physical parameters</b>					
Hardware	Laser (Indication, Ranging 0.1m to 40m), Illuminator, Microphone, Speaker, Electronic Compass, GPS				
Weight	≤1.15KG (with battery)				
Size (L × W × H)	292 × 125 × 125 mm				
Software kit	PC: ThermoTools; Mobile: Thermography (iOS/Android)				
Standard	A device (with lens), Front and lens covers, Lithium-ion battery (2 pcs), Desktop charger, Power adapter, Adapter plug (for China, US, UK, Australia and Europe), Cable (double-headed TYPE-C USB), TYPE-C USB cable, Ethernet Cable, TYPE-C to RJ45, SD card (64 GB), Wrist strap, Shoulder strap, Safety box, Packaging list, Quick Start Guide, Data download card (analysis software & user manual), Certificate of approval, Factory certificate				
Options	Battery, optional lens (44°, 15°, 7°, 25°), Carrying bog, Tripod, Bluetooth earphone, Docking station	Battery, optional lens (44°, 15°, 7°, 25°, high-temperature lens), Carrying bog, Tripod, Bluetooth earphone, Docking station		Battery, optional lens (44°, 15°, 7°, 25°, high-temperature lens, macro lens), Carrying bog, Tripod, Bluetooth earphone, Docking station	

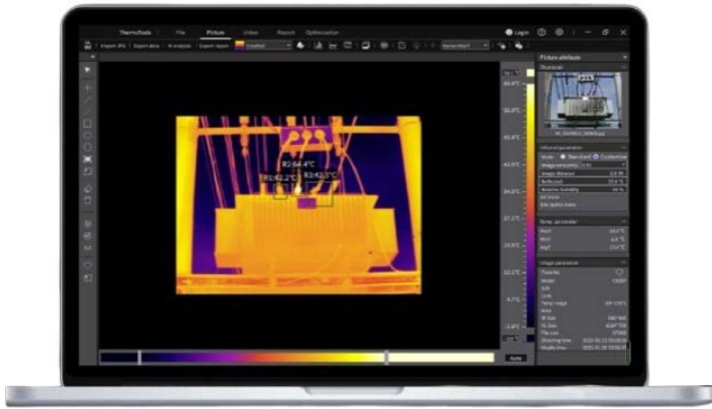
# Thermal Imager STEK Ti256 / Ti320 / Ti384 / Ti480 & Ti640



Standard / Wide Angle / Telephoto / High Temperature Lens Field of View (FOV)  
 To know what best is suited for you click on bellow link

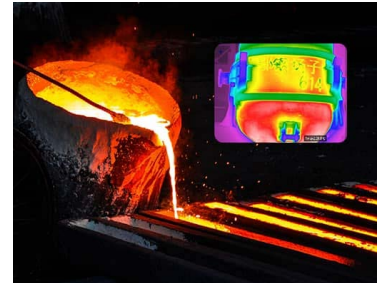
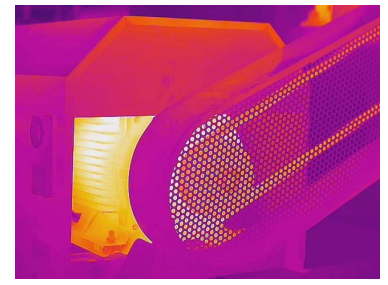
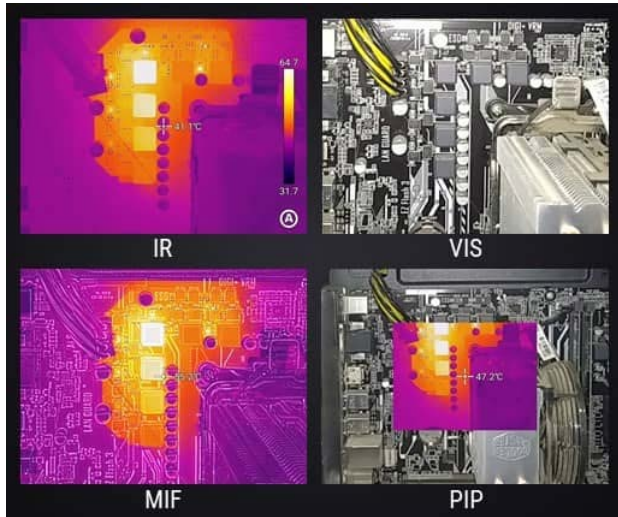
<https://stek.in/field-of-view-calculator>

Model	STEK Ti256	STEK Ti320	STEK Ti384	STEK Ti480	STEK Ti640
<b>Standard Lens(25°)</b>					
<b>Focal length</b>	10.5mm	10.5mm	10.5mm	17.7 mm	17.7 mm
<b>FOV</b>	25°×19°	25°×19°	25°×19°	25°×19°	25°×19°
<b>IFOV</b>	1.7mrad	1.36mrad	1.13mrad	0.91 mrad	0.68 mrad
<b>Min focus distance</b>	0.1m	0.1m	0.15m	0.15m	0.15m
<b>Wide Angle(45°)</b>					
<b>Focal length</b>	6mm	6mm	6mm	10.0 mm	10.0 mm
<b>FOV</b>	44°×34°	44°×34°	44°×34°	44°×34°	44°×34°
<b>IFOV</b>	2.99mrad	2.39mrad	1.99,mrad	1.60 mrad	1.20 mrad
<b>Min focus distance</b>	0.1m	0.1m	0.1m	0.1m	0.1m
<b>Medium Telephoto(15°)</b>					
<b>Focal length</b>	17.5mm	17.5mm	17.5mm	29.0 mm	29.0 mm
<b>FOV</b>	15°×11°	15°×11°	15°×11°	15°×11°	15°×11°
<b>IFOV</b>	1.02mrad	0.82mrad	0.68mrad	0.55 mrad	0.41 mrad
<b>Min focus distance</b>	0.5m	0.5m	1m	1m	1m
<b>Telephoto(7°)</b>					
<b>Focal length</b>	37.5mm	37.5mm	37.5mm	62.9 mm	62.9 mm
<b>FOV</b>	7°×5°	7°×5°	7°×5°	7°×5°	7°×5°
<b>IFOV</b>	0.48mrad	0.38mrad	0.32mrad	0.25 mrad	0.19 mrad
<b>Min focus distance</b>	2.5m	2.5m	3m	3m	3m
<b>Macro Lens</b>					
<b>Working distance</b>	/	/	/	16.2 mm	16.2 mm
<b>Magnification</b>	/	/	/	3X	3X
<b>Object/target Size</b>	/	/	/	100mm	100mm
<b>Spatial Resolution(IFOV)</b>	/	/	/	36µm	50µm
<b>High Temp</b>					
<b>FOV</b>	/	25°×19°	25°×19°	25°×19°	25°×19°
<b>Temp Measurement Range</b>	/	500°C~2000°C	500°C~2000°C	500°C~2000°C	500°C~2000°C



Professional STEK Thermotools Software

- Detail Thermal Analysis of Images stored in Camera with Name of Object , date and time stamping
- Basic & Advanced Reporting
- Area specific emissivity settings
- Line, Square, Free Object Thermal Analysis
- History Image Trending
- Open Protocols to integrate with Other Softwares



Standard Accessories:

1. Thermal imager
2. Carrying case
3. Rechargeable battery (2)
4. National standard charger
5. Battery charging stand
6. User manual, report analysis system CD
7. TF card
8. TF card reader
9. USB data cable
10. Calibration Certificate



Optional Accessories:

1. 0.5 X wide-angle lens, 44° X 34°
2. 2X Telephoto lens 15° X 11°
3. 3X Super telephoto lens 7° X 5°
4. High Temperature Filter for High Temp Measurement
5. NABL Calibration Certification