

TC4/TC8 Series

HIGHEST RESOLUTION AND ACCURACY
WITH LOW COST



Drop Resistant

TC4/TC8 Series


3 million daylight image

New technology, sensors drop resistant

Bluetooth audio transmission

amperis

www.amperis.com

 AMPERIS PRODUCTS S.L
Agricultura,34
27003, Lugo, Spain

 Contact

+T [+34] 982 20 99 20 | F [+34] 982 20 99 11
info@amperis.com | www.amperis.com

TC4 and TC8 series using a new ergonomic design concept are a kind of handheld IR Thermal Imaging Camera designed for Electric & Industrial predictive maintenance with pixel of 160x120 / 384x288. TC4/TC8 will give a fusion display with the 3 million pixel daylight image and IR thermal image through a convenient 3.6" touch screen at your fingertips. Importantly, Network real-time transmission of picture and video features play an excellent role in the field of scientific research and industrial control.

TC4/TC8 – Great choice for predictive maintenance



New technology
2-meters drop resistant



3 million daylight image



3,6" Touch screen



Dual LED fill lights make clearer shot



Fusion display of IR & daylight image



Bluetooth audio transmission

Developed with user friendly and easy operating " GUI " system

Standby interface Main menu

Bluetooth setting Internet setting

Real-time transmission of pictures and infrared videos

Real-time video tranfering to professional IR Video Analyse Software on your computer

Technical parameters

		TC4	TC8
Detector characteristics	Detector type	Uncooled FPA microbolometer	
	Array size/format	160×120	384×288
Image manage	Field of view/min focus distance	25°×19°/0.1m	
	Spatial resolutions(IFOV)	2.37mrad	1.37mrad
	Thermal sensitivity	≤0.06°C@30°C	≤0.06°C@30°C
	Frame rate	50/60Hz	
	Focus	Manual	
	Spectral range	8~14um	
	Built-in visible light	Yes	
Image display	LCD display	3.6"TFT color LCD, 640×480	
	Image adjustment	Auto/manual gain and brightness	
	Color palette	Color palette 11 palettes changeable	
Measurement	Temperature ranges	-20°C~+350°C (can expand to 650°C)	-20°C~+650°C (can expand to 1200°C or 2000°C)
	Accuracy	±2°C or ±2% of reading, whichever is greater	
	Measurement correction	Automatic/manual	
	Measurement mode	Up to 5 movable spots. Up to 5 movable areas (maximum, minimum and average temperatures).Up to 2 movable lines. Line profile. Isotherms. Temperature difference. Alarm (voice, color)	
	Setup functions	Date/time, temperature unit, language	
	Emissivity correction	Variable from 0.01 to 1.0	
	Background temperature correction	Automatic correction according to user input	
	Atmospheric transmission correction	Automatic correction according to user input object distance, humidity and temperature	
Image storage	Storage Card	8G SD card, max 32G	
	Storage mode	Automatic/manual single file saving, IR and Visual image link saving	
	Thermal file format	JPEG with original thermal measurement data;H.264 with original thermal measurement data	
	Visual file format	JPEG、 H.264	
	Voice annotation	A built-in microphone Up to 60 seconds of digital voice clip with each cared thermal imaging	
Laser Pointer	Laser pointer	Class 2,1mw/635nm(red),IEC 60 285	

Power supply	Battery type	Li-Ion, rechargeable
	Battery operating time	3 hours continuous operation
	Charging system	Intelligent charger or power supply adaptor 12V (optional) to random charge
	Power saving	Auto dormancy and auto-shut down
Environment	Operating temperature	-15 °C - +50 °C
	Storage temperature	-25 °C - +60 °C
	Encapsulation	IP54
	Anti-shock	25G, IEC 68-2-29
	Vibration resistance	2G, IEC 68-2-6 grade
	Drop resistance	2 meters
	Humidity	≤ 90% non-condensing
Physical characteristics	Weight	0.98kg
	Dimensions	230mm×105mm×245mm
	Handrail	Can be installed on both sides
	Tripod	1/4"-20-UNC
Interface	Memory card slot	Micro SD(TF)
	External DC input	Yes
	Video output	Yes
	USB	Mini-USB Image, measurement data transfer
	Audio / data transmission	Bluetooth(Headset/RS232)