

TI30S

Small Online Monitoring Thermal Imaging Cores

TI30S has the characteristics of compact structure, small volume, light weight, stable performance, high sensitivity, clear image, accurate temperature measurement and flexible control. With special athermal infrared lens, it is integrated into shield, PTZ and other devices to form a complete infrared online monitoring system. It can meet the non-contact real-time temperature measurement in the process state detection field of industry, power, electronics and other industries.

Features

Stable performance and can be integrated into complex application environment

Multiple motorized lenses, supporting auto focusing

The second generation image algorithm Ultra DDE, supports image flipping

Temperature data stream can be recorded in real time, and the picture supports State Grid format

RJ45 Interface 100M/1000M adaptive

Provide professional analysis software and SDK software package for development

Support ONVIF protocol and RTSP video stream



Applications

Electric temperature measurement

Inspection robot

Industrial temperature measurement

Component integration

ULIRVISION

Technical Specifications

Item	TI30S		
Detector Data			
Type	Uncooled FPA		
IR resolution	384×288		
Pixel pitch	17μm		
Spectral range	8~14μm		
NETD/Sensitivity	<60mK @F1.0, 30℃(50mK optional)		
Lens Data			
Focal distance	Fixed 6.2mm	Manual 15mm(optional)	Motor 15mm
FOV	55.5°* 43°	24°* 18°	24°* 18°
Minimum imaging distance	50cm		
IFOV	2.742mrad	1.133mrad	1.133mrad
Focus	Manual/Fixed/Motor(support auto focus)		
Image Performance			
Image enhancement	The second generation image algorithm Ultra DDE		
Frequency	25Hz		
Digital zoom	1.0X~4.0X, 0.1 step		
Palette	12 palettes(including iron, rainbow, white hot and black hot etc.)		
Measure			
Temperature range	Three gear temperature measurement: -20℃~+150℃; 120℃~600℃; -20℃~+350℃		
Measurement accuracy	±2℃/±2%(reading)		
Measurement correction	Support, manual/auto		
Highest temperature tracking	Display the location and value of the highest temperature point in real time		
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials		
Ambient temperature correction	Support (according to the entered ambient temperature)		
Humidity correction	Support (according to the entered relative humidity)		
Transmittance correction	Support (adjustable from 0.01 to 1 according to the entered transmittance)		
Function settings	Date/time, temperature unit °C/°F/K switch		
Data storage			
Temperature data	Standard UTD format, analysis with IRX software		
Temperature data flow	HXR grayscale video format, can be played back by lrx software		
	Image processing can be performed during cyclic playback		
Image format	Support JPG (vector image), BMP (bitmap), JPEG (analyzable), UTD (grayscale image)		
Video format	AVI format, H.264 compression		
RAM	64G high speed TF card		
Storage control	Serial port		
Report	Support, with content selection orientation		
Interface			
Network interface	100M/1000M Ethernet, RJ45, temperature data transmission		

Industrial terminal	10pin terminal, including power supply and analog video
Serial port control	RS-232/RS-422 optional
Alarm I/O	Support
API	Support SDK(Windows&Linux)
Power System	
Working voltage	DC9.5~14V Standard: DC12V
Power consumption	Normal≤2W Peak power consumption:≤2.5W
Environment Parameters	
Operating temperature range	-20℃~+50℃
Storage temperature range	-40℃~+70℃
Humidity	≤90%(Non-condense)
Vibration	5Hz~200Hz~5Hz 2.5G swept sine
Shock	30G 11ms
EMC	CE/FCC
Physical data	
Size	Without lens: 60.6mm(L) * 46mm(W) * 49.5mm(H) With 15mm fixed focus lens: 70mm(L)* 46mm(W) * 49.5mm(H)
Weight	<145g(Without lens) With 15mm fixed focus lens: 190g
Mounting	UNC 1/4-20 standard tripod interface, M2 threaded joint
Packing	
Standard	Thermal camera, 10PIN terminal, warranty card, certificate, power cable, analog connection line, RCA to BNC connector