

TI35|TI65

Online Monitoring Thermal Imaging Cores

TI35|TI65 are with advanced thermal imaging technologies and are our innovative thermal imaging products for online monitoring system. They are suitable for long-distance monitoring for machines, electrical equipment and flammable materials; they can detect potential dangers in time so as to ensure the safety in production.

Features

384×288|640×480, 17μm uncooled FPA detector

Multiple motorized lenses, supporting auto focusing

Auto tracking of hot spots and showing the temperature values

Thermal images, temperature and temperature data flows are saved

100M network transmission temperature data

Compact structure with weight of 420g

Professional software for free



Applications

Online monitoring system

UAV & aircraft & robot application

Automation security

Technical Specifications

Item	TI35	TI65
Detector Data		
Type	Uncooled FPA	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	65mK	
Lens		
FOV/Minimum imaging distance	24°×18°/30cm	
IFOV	1.3mrad	0.65mrad
Focus	Auto/Motor	
Image Performance		
Image enhancement	IVE image enhancement algorithm	
Frequency	50Hz/60Hz	
Digital zoom	2X、4X	
Color palletes	10 palletes(including iron, rainbow, white hot and black hot etc.)	
Measurement		
Temperature range	-20℃~+200℃(can be extended to 600℃)	
Temperature accuracy	±2℃/±2%(reading)	
Highest temperature tracking	Display the location and value of the highest temperature point	
Measurement correction	Auto	
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials	
Background temperature correction	Auto	
Atmospheric transmissivity correction	Auto	
Fliter or window transmittance	Auto	
Setting function	Date/time, temperature unit °C/°F/K, language	
Data Storage		
Temperature data	Customized UDS, use IRSee to analyze	
Temperature data flow	Customized UTD, use IRSee to playback, freezable、loop、image processed when playing	
Image format	JPG format	
Video format	AVI format, H.264 compression	
SD card	32G high speed TF card	
Storage control	Serial port command, level trigger or key trigger is optional	
Report	Word format, customized format function	
Interfaces		
Internet interface	100M Ethernet, RJ45, temperature data transmission	
Power interface	Yes	
Video output	CVBS	
Control port	RS232	
Installation interface	UNC 1/4"-20 standard interface, M3 treaded joint	
Power System		
DC supply	DC: 12V	
Power consumption	<3.6W	
Environment Parameters		
Operation temperature range	-30℃~+60℃	
Storage temperature range	-40℃~+70℃	
Humidity	≤95%(Non-condense)	
EMC	CE/FCC	
Vibration	2G(IEC60068-2-6)	
Shock	25G(IEC60068-2-29)	
Encapsulation	IP54(IEC60529)	
Physical Data		
Size(L×W×H)	105mm×65mm×72mm	
Weight	≤420g(with 25mm athermal lens)	
Packing		
Standard	Thermal imaging camera with 25mm athermal lens, intergation cable, software CD, warranty card, certificate, calibration book, transport case	