

 **infraRed**  
Thermometer

# About ZyTemp

## About Us

- Radiant Innovation Inc. has obtained P.R.C (The People's Republic of China) China CPA.
- Radiant was certified by Taiwan Corporate Governance Association (TCGA) with the Provisions of CG6004 General Assessment Criteria of the Corporate Governance System
- Radiant's stock has been officially listed in the OTC market (went public)
- Radiant won Taiwan's the 10th Rising Star Award
- Radiant has obtained the Symbol of Deloitte-TECH Fast 50 Taiwan acquire
- Radiant wins "Year 2004 Taiwan's Prestigious Symbol of Excellence Award"
- Radiant Innovation Inc. wins Year 2002 Taiwan Incorporation Competition [TIC] Silver Award from the Ministry of Economic Affairs
- Receive the Symbol of Excellence Awards in Taiwan



Founded in July 2000, ZyTemp belongs to world-class Infrared Technology-oriented thermometer manufacturer – Radiant Innovation Inc. and become a premier provider of infrared temperature measurement devices. Originally started from a professional team of engineers specializing in infrared thermometry, this company is now emerging as worldwide well-known manufacturer of infrared thermometers (IRT). Our growing production lines include various IRT that can be widely used in expansive array of scientific, professional, academic, and personal applications.

## A Strong and Highly Experience Technical Team

ZyTemp is an engineering-based company with extensive experience in product development which composed of technical professionals with experience in Optoelectronics, Semiconductor, and Biotechnologies. We have been successfully certificated for quality management, development, and production because of our expert knowledge in electronics, machinery, software, firmware programming, quality control and manufacturing.

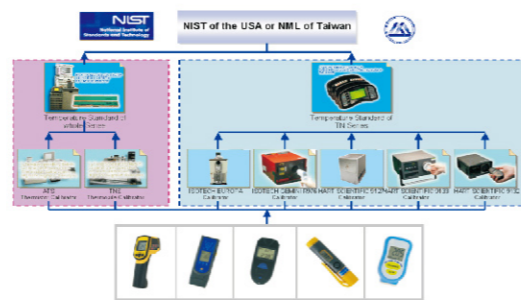
## Certification

We have obtained ISO9001 certifications and certified by CE, FDA Laser, NSF, UKCA, PSC, REACH



## Traceable

ZyTemp has maintained a traceable Temperature Primary Standard. Please refer to the website for further details.  
<http://www.zytemp.com/qualitysystem/traceable.asp>



## Performance

The high performance of our product line make ZyTemp become leading brand in the market. Aiming to be the top infrared thermometer supplier, we have set high standards in quality control and assurance systems. For this reason, our product repair rates never exceeded 0.03% since our establishment.



- Industry**  
Steel-Making
- Auto**
- HVAC**
- HACCP**  
Food  
Drink  
Beverage  
Brewery
- Tools-DIY**
- Laboratory**
- Electric Power**
- Others**  
Hobby · Meter  
Household  
Fire Protection  
3C · Promotion  
Aquarium · Reptile

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# Thermal Imager Camera

TIM038VL · TIM06V · TIM03 Series



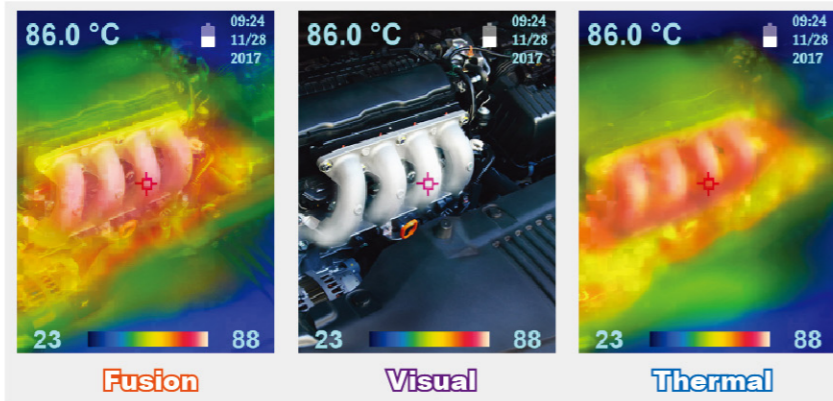
• Automation / Process Control • Building diagnostics • Electrical / Mechanical • Solar • HVAC



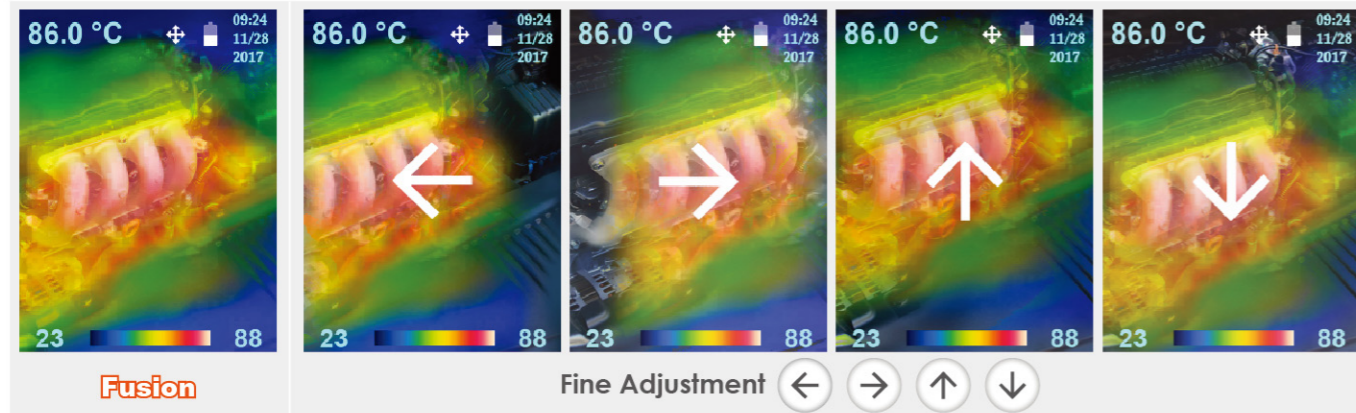
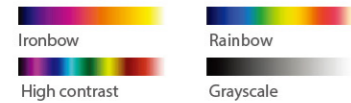
TIM038VL

- Fusion / Visual / Thermal (Photo/Video Mode) (TIM038VL/TIM06V/TIM03V)
- Fully Automatic Measurement
- Focus Free
- Fine Adjustment: the blending area of visual & thermal images(TIM038VL/TIM06V)
- Outstanding Measurement / Accuracy
- Micro SD Card Storage
- Reporting Software Included(TIM03)

## TIM038VL/TIM06V-Display Mode



### Color palettes



# Thermal Imager Camera

TIM038VL · TIM06V · TIM03 Series

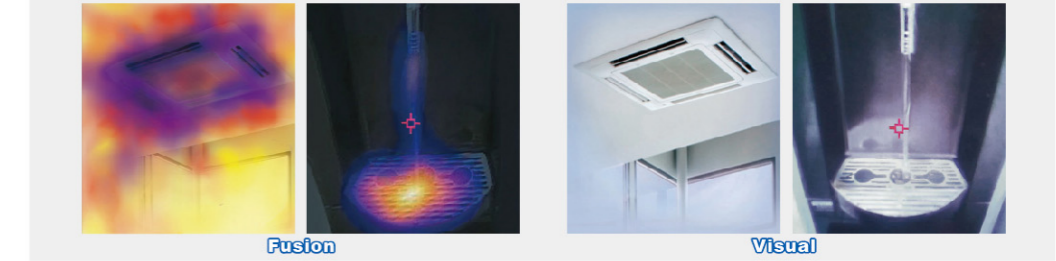


• Automation / Process Control • Building diagnostics • Electrical / Mechanical • Solar • HVAC

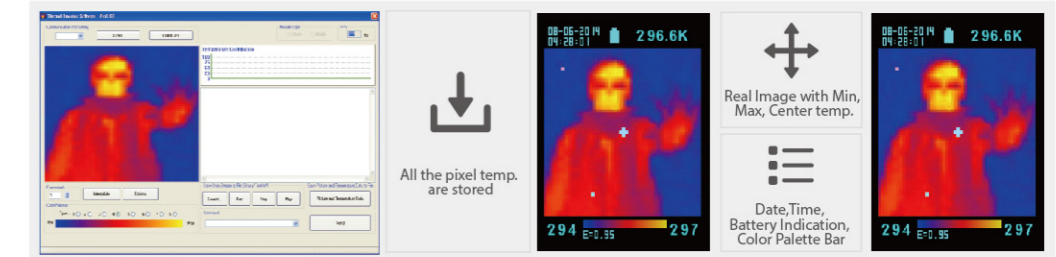


TIM06V/TIM03V

## TIM03V(Visual)



## TIM03

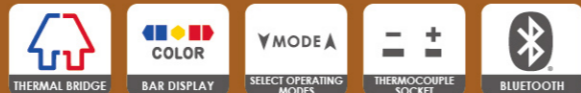


	TIM038VL	TIM06V	TIM03V	TIM03
Description	Thermal Imager Camera			
IP Classification	IP54			
Thermal Image Resolution	160 x 120	60 x 40	32 x 32	32 x 31
Visual Image Resolution	640 x 480			-
Infrared Measurement Range	-20~500°C(-4~932°F)		-20~350°C(-4~662°F)	-20~250°C(-4~482°F)
Infrared Accuracy (Tamb=20~26°C)	±2% of reading, or 2°C(4°F) whichever is greater			
Thermal Sensitivity	0.1°C(0.1°F)			
Frame Rate	9Hz			
Field of View	51 x 40 deg	38 x 24.5 deg	33 x 33 deg	40 x 40 deg
Emissivity	0.95 default adjustable 0.1 to 1 step .01			
Focus	Focus free			
LCD (inch)	2.8			
Mode	HAL/LAL Temp, Photo/Video, Auto Off Time, Target Distance, Languages, Date/Time			
Memory Type/Image Storage	Stores up to 180,000 images, PNG format, for 32G micro SD card, stores up to 320,000 images, PNG format, for 64G micro SD card.		Stores up to 90,000 images, BMP format, for 32G micro SD card, stores up to 170,000 images, BMP format, for 64G micro SD card.	
Spectral Range	8~14μm			
Interface	USB			
Battery Type	3.7V Li-ion rechargeable battery x 1			AA x 4
Battery Life (with backlit)	4 hrs continuous use	3 hrs continuous use		6 hrs continuous use

Specifications are subject to change without notice

# Combo Thermal Detector

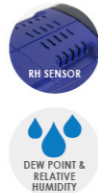
TN49A · TN49R Series



• Building Diagnostics • HVAC



- THB(thermal bridge detection) / DPT(dew point temp.)
- With Buzzer(TN49A/TN49R) & Vibration Alarms(TN49R)
- Infrared up to 1000°C(1832°F)
- Laser Sight Technology
- High DS Ratio up to 35:1(TN49A) / 30:1(TN49R)
- Detailed Memories with Temperature & Emissivity
- Color Bar Display
- Optional : Socket / Bluetooth(TN49A/TN49R), USB(TN49R)



THB (Thermal Bridge Detection) (TN49R)

DPT(Dew Point Temp.) (TN49R)    RH (TN49R)    IRT - Tamb <-6.5°C(-11.7°F)    -6.5°C(-11.7°F) ≤ IRT - Tamb ≤ 6.5°C(11.7°F)    IRT - Tamb > 6.5°C(11.7°F)    THB Mode LED Display (TN49A)    Red / Green Circle Laser (TN49ALB)

IRI - Tamb <-2°C(-3.6°F)    -2°C(-3.6°F) ≤ IRT - Tamb ≤ 2°C(3.6°F)    IRT - Tamb > 2°C(3.6°F)

<600°C(<1112°F)    ≥600°C(≥1112°F)

	TN49ALA	TN49ALB	TN49RXC	TN49RXG	TN49RXBG
Description	IRT+Laser+Color Bar Display+THB+Bluetooth(Δ)		IRT+Laser+Color Bar Display+THB+DPT+RH+Bluetooth(Δ)USB(Δ)		
Measurement Range	-60~760°C(-76~1400°F)	-60~1000°C(-76~1832°F)	-60~550°C(-76~1022°F)		-60~1000°C(-76~1832°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater; <0°C: ±(2°C+0.05/°C)°C				
Distance : Spot	16:1	35:1	12:1	30:1	
Emissivity Range	0.95 default adjustable 0.1 to 1 step .01				
Resolution	0.1°C/0.1°F at -83.2~999.9(°C/°F), otherwise 1°C/1°F				
Thermocouple Probe	Small Socket, K type, 12 min. auto power off				
Measurement Range*	-64~1400°C(-83.2~2552°F)				
Memory	24 sets	50 sets	—	50 sets	
Power Supply	AAA x 2		AAA x 2		

\*Actual temperature range depends on the TC probe selected. Δ:Optional Specifications are subject to change without notice

# Dual Laser Infrared Thermometer

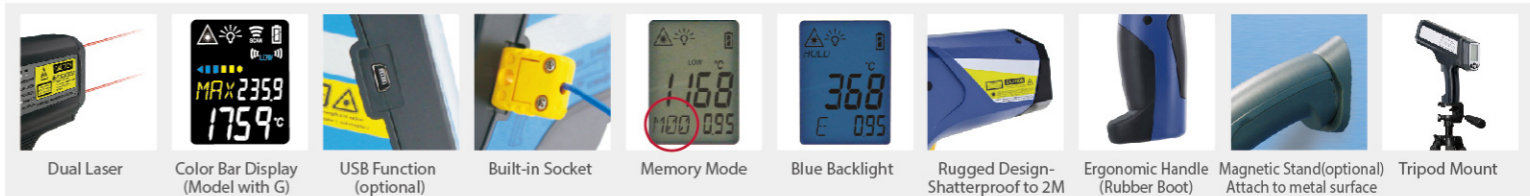
TN768 · TN758 · TN568 Series



• Steel-making • Electric Power • Petrochemical



- Infrared up to 2400°C(4352°F)(TN568LC2)
- Dual Laser Points for the Target Spot Size
- High DS (Distance to Spot) Ratio 100:1(TN568)/ 75:1(TN768/TN758)
- Detail Memories with Temperature and Emissivity
- Output interface : SPI / Micro SD Card(TN758), USB Function(TN768/TN758/TN568)



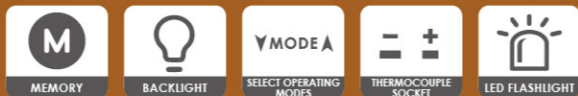
	TN568LC2	TN568LC1	TN768LB	TN768LC	TN768LD	TN758LC	TN758LB
Description	IRT + Laser + Thermocouple socket, (U) with USB Function, (K) with SD Card Storage, (G) with Color Bar Display (optional)						
Measurement Range	200~2400°C (392~4352°F)	100~1800°C (212~3272°F)	-35~1500°C (-31~2732°F)	-60~1500°C (-76~2732°F)	-35~1600°C (-31~2912°F)	100~2000°C (212~3632°F)	
Full Range Accuracy (Tamb=23±3°C)	±2% of reading			≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	±2% of reading or 2°C(4°F) whichever is greater	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	±2% of reading
Distance : Spot	100:1		75:1		50:1	60:1	75:1
Emissivity Range	0.95 default adjustable 0.1 to 1 step .01						
Resolution	0.1°C/0.1°F at -83.2~999.9(°C/°F), otherwise 1°C/1°F						
Spectral range	1.1~3.7μm	2.3~5μm	8~14μm		2.3μm		
Mode	Max/Min, Dif, Ave, Lock, Hi/Low Temp Alarm						
Memory	Detailed 24 Memories with Temperature & Emissivity						
Memory Type	—					Support micro SD card (Recommend to use the attached micro SD card)	
Thermocouple Probe	Small Socket, K type, 12 minutes auto power off						
Measurement Range*	-64~1400°C(-83.2~2552°F)						
Probe Accuracy	±1% of reading or 1°C(1.8°F) whichever is greater (Test under Tamb=23±6°C)						
Power Supply	AA x 2	AAA x 2			AA x 2		

\*Actual temperature range depends on the TC probe selected. Specifications are subject to change without notice



# Dual Laser / Multi-Beams Laser IRT

TN475 · TN425 · TN423 Series



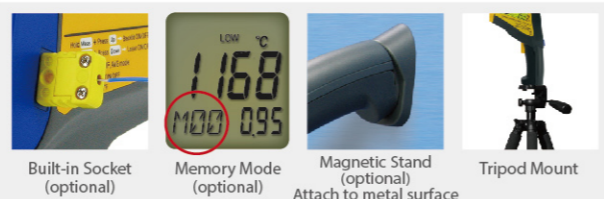
• Steel-making • Electric Power • Petrochemical



TN475 Series  
TN425 Series

TN423 Series

- Infrared up to 1600°C(2912°F)
- Laser Sight for better targeting
- High DS (Distance to Spot) Ratio up to 75:1(TN475) / 50:1(TN425) / 35:1(TN423)
- Detailed 24 Memories with Temperature & Emissivity(optional)
- Mini Thermocouple Socket up to 1400°C(optional)



Built-in Socket (optional)    Memory Mode (optional)    Magnetic Stand (optional) Attach to metal surface    Tripod Mount

	TN475LC	TN425LN	TN425LB	TN425LM	TN425LC	TN425LA	TN423LA	TN423LB	TN423LC	TN425L
Description	IRT + Dual Laser + Thermocouple socket(optional), (E) with LED Flashlight(optional)									
Measurement Range	-60~1600°C (-76~2912°F)	-60~1500°C (-76~2732°F)	-60~1000°C (-76~1832°F)	-60~1200°C (-76~2192°F)	-60~1500°C (-76~2732°F)	-60~1000°C (-76~1832°F)	-60~860°C (-76~1580°F)	-60~1000°C (-76~1832°F)	-60~1000°C (-76~1832°F)	-60~1000°C (-76~1832°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05°C/°C)	Tobj= -33~1500°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj= -33~1000°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj= -33~1200°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj= -33~1500°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj= -33~1000°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj= -33~860°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj= -33~1000°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj= -33~1000°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj= -33~1000°C: ±2% of reading or 2°C(4°F) whichever is greater
Distance : Spot	75:1	50:1		35:1		30:1		50:1		
Emissivity Range	0.95 default adjustable 0.1 to 1 step .01									
Resolution	0.1°C/0.1°F at -83.2~999.9(°C/°F), otherwise 1°C/1°F									0.1°C/0.1°F at -76~999.9 (°C/°F), otherwise 1°C/1°F
Mode	Ave, Dif, Lock, Max/Min, Hi/Low Temp Alarm									
Memory	—	Detailed 24 Memories with Temperature & Emissivity	—	Detailed 24 Memories with Temperature & Emissivity	—					
Thermocouple Probe	Small Socket, K type, 12 minutes auto power off									
Measurement Range*	-64~1400°C(-83.2~2552°F)									
Probe Accuracy	±1% of reading or 1°C(1.8°F) whichever is greater (Test under Tamb=23±6°C)									
Power Supply	AAA x 2									

\*Actual temperature range depends on the TC probe selected. Specifications are subject to change without notice

# Dual Laser / Multi-Beam Laser IRT

TN499 · TN498 · TN497 · TN496 Series



• Electric Power • Fire Protection • Laboratory • HVAC • AUTO • HACCP



TN499LB

TN497LB

- Infrared up to 760°C(1400°F)
- Laser Sight for better targeting
- High DS(Distance to Spot) Ratio up to 30:1
- Color Bar Display(TN499/TN497)
- Mini Thermocouple Socket up to 1400°C(optional)
- Best Cost / Performance Ratio



Color Bar Display (TN499/TN497)    Built-in Socket (optional)    Rugged Design-Shatterproof to 2M (TN497/TN496)    Tripod Mount

	TN499LB / TN498LB / TN497LB / TN496LB	TN498LD / TN497LD / TN496LD	TN499LC / TN498LC / TN497LC / TN496LC
Description	IRT + Laser + Thermocouple socket, (E) with LED Flashlight (optional)		
Measurement Range	-60~760°C(-76~1400°F)	-60~625°C(-76~1157°F)	-60~550°C(-76~1022°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05°C/°C)		
Distance : Spot	30:1	16:1	12:1
Emissivity Range	0.95 default adjustable 0.1 to 1 step .01		
Resolution	0.1°C/0.1°F at -83.2~999.9(°C/°F), otherwise 1°C/1°F		
Mode	Ave, Dif, Lock, Max/Min, Hi/Low Temp Alarm		
Thermocouple Probe	Small Socket, K type, 12 minutes auto power off		
Measurement Range*	-64~1400°C(-83.2~2552°F)		
Probe Accuracy	±1% of reading or 1°C(1.8°F) whichever is greater (Test under Tamb=23±6°C)		
Power Supply	AAA x 2		

\*Actual temperature range depends on the TC probe selected. Specifications are subject to change without notice



# Splash Proof IRT

TN49S Series



• Steel-making • Electric Power • Petrochemical



- Infrared up to 760°C(1400°F)
- IP54 Splash Proof Classification
- Laser Sight for better targeting
- High DS(Distance to Spot) Ratio 30:1
- Color Bar Displays Temperature in Max/Min Mode(optional)
- USB Function



	TN49SLBU	TN49SLCU
Description	IRT + Laser + Thermocouple socket, (U) with USB Function, (G) with Color Bar Display	
Measurement Range	-60~760°C(-76~1400°F)	-60~550°C(-76~1022°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	
Distance : Spot	30:1	12:1
Emissivity Range	0.95 default adjustable 0.1 to 1 step .01	
Resolution	0.1°C/0.1°F at -83.2~999.9(°C/°F), otherwise 1°C/1°F	
Mode	Ave, Dif, Lock, Max/Min, Hi/Low Temp Alarm	
Thermocouple Probe	Small Socket, K type, 12 minutes auto power off	
Measurement Range*	-64~1400°C(-83.2~2552°F)	
Probe Accuracy	±1% of reading or 1°C(1.8°F) whichever is greater (Test under Tamb=23±6°C)	
Power Supply	AAA x 2	

\*Actual temperature range depends on the TC probe selected. Specifications are subject to change without notice

# Splash Proof IRT

TN43P · TN43S Series



• AUTO • HACCP • HVAC • Power • Industry • Laboratory



- Laser Sight for better targeting
- Real time maximum temperature reading
- High DS(Distance to Spot) Ratio up to 12:1
- Recall the Last Reading
- Large LCD Screen with bright amber color backlight
- IP54 Splash Proof Classification

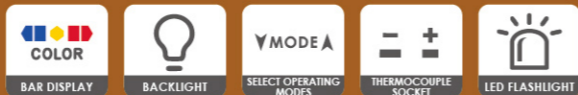


	TN43PL2 / TN43SL2	TN43PL1 / TN43SL1
Description	IRT + Laser	
Measurement Range	-60~550°C(-76~1022°F)	-50~460°C(-58~860°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C+0.05/°C)°C
Distance : Spot	12:1	
Emissivity Range	0.95 default – adjustable 0.1 to 1 step .01	0.95 or 0.70 (The default emissivity is 0.95)
Resolution	0.1°C/0.1°F at -76~999.9(°C/°F), otherwise 1°C/1°F	0.2°C/0.5°F at -9.9~199.9(°C/°F), otherwise 1°C/1°F
Mode	Ave, Dif, Hi/Low Alarm, Max/Min, Lock	Max, Lock
Power Supply	AAA x 2	

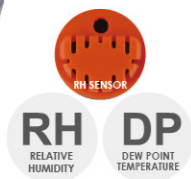
Specifications are subject to change without notice

# Dual Functions IRT

TN418 · TN410 Series



• AUTO • Power • HACCP • Industry • HVAC • Laboratory



TN418LCRVH

TN410LC

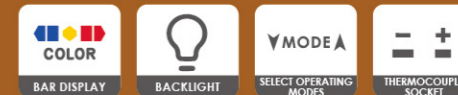
- Various Measurement Range & DS Ratio for Option
- Precise K type Thermocouple Thermometer Available(optional)
- User Friendly Interface
- Vibration Warning(TN418LCRVH)
- Color Bar Displays Temperature in Max/Min Mode
- With White LED Flashlight(optional)



Relative Humidity (Tamb=23±2)	
1~99%	accuracy:±3% from 20~80%, otherwise ±5%
Dew Point	
-50~50°C	accuracy: ±2.5°C from 20~30% RH; ±2°C from 31~40% RH; ±1.5°C from 41~95% RH

# Dual Functions IRT

TN41A Series



• AUTO • HACCP • HVAC • Power • Industry • Laboratory



TN41ALCH

TN41AL3

- Various Measurement Range & DS Ratio for Option
- Precise K type Thermocouple Thermometer Available(optional)
- User Friendly Interface
- Color Bar Displays Temperature in Max/Min Mode
- Large LCD Screen, with bright amber color backlight



	TN418LD	TN418LB	TN418LA	TN418L9	TN418LC	TN418L2	TN418L3	TN418L1/TN418LOY	TN418LOZ
	TN410LD	TN410LB	TN410LA	TN410L9	TN410LC	TN410L2	TN410L3	TN410L1	
Description	IRT + Laser, (E) with LED Flashlight (optional), (G) with Color Bar Display								
Measurement Range	-60~625°C(-76~1157°F)	-60~760°C(-76~1400°F)			-60~500°C(-76~932°F)	-60~625°C(-76~1157°F)	-60~500°C(-76~932°F)		-60~550°C(-76~1022°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C : ±2% of reading or 2°C(4°F) whichever is greater <0°C : ±(2°C+0.05/°C)°C	Tobj= -33~760°C: ±2% of reading or 2°C(4°F) whichever is greater			Tobj= -33~500°C: ±2% of reading or 2°C(4°F) whichever is greater	≥0°C : ±2% of reading or 2°C(4°F) whichever is greater <0°C : ±(2°C+0.05/°C)°C	Tobj= -33~500°C: ±2% of reading or 2°C(4°F) whichever is greater		≥0°C : ±2.5% of reading or 2.5°C (4.5°F) whichever is greater <0°C : ±(2.5°C+0.05/°C)°C
Distance : Spot	16:1	30:1	20:1		12:1			12:1	15:1
Emissivity Range	0.95 default adjustable 0.1 to 1 step .01					0.95 Fixed			
Resolution	0.1°C/0.1°F at -9.9~199.9(°C/°F), otherwise 1°C/1°F								
Mode	Ave, Dif, Lock, Max/Min, Hi/Low Temp Alarm					Max			
Thermocouple Probe	Small Socket, K type, 12 minutes auto power off								
Measurement Range*	-64~1400°C(-83.2~1999°F)								
Probe Accuracy	±1% of reading or 1°C(1.8°F) whichever is greater (Test under Tamb=23±6°C)								
Power Supply	AAA x 2								

\*Actual temperature range depends on the TC probe selected. Specifications are subject to change without notice

	TN41ALB	TN41ALC	TN41ALD	TN41AL3
Description	IRT + Laser, (G) with Color Bar Display			
Measurement Range	-60~760°C(-76~1400°F)	-60~500°C(-76~932°F)	-60~625°C(-76~1157°F)	-60~500°C(-76~932°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C : ±2% of reading or 2°C(4°F) whichever is greater <0°C : ±(2°C+0.05/°C)°C			
Distance : Spot	30:1	12:1	16:1	12:1
Emissivity Range	0.95 default adjustable 0.1 to 1 step .01			0.95 Fixed
Resolution	0.1°C/0.1°F at -9.9~199.9(°C/°F), otherwise 1°C/1°F			
Mode	Ave, Dif, Lock, Max/Min, Hi/Low Temp Alarm			
Thermocouple Probe	Small Socket, K type, 12 minutes auto power off			
Measurement Range*	-64~1400°C(-83.2~1999°F)			
Probe Accuracy	±1% of reading or 1°C(1.8°F) whichever is greater (Test under Tamb=23±6°C)			
Power Supply	AAA x 2			

\*Actual temperature range depends on the TC probe selected. Specifications are subject to change without notice



# Valuable Infrared Thermometer

TN430 · TN436 Series



• AUTO • HACCP • HVAC • Power • Industry • Laboratory



TN430LC

TN436LD

- User Friendly Interface
- Real time maximum temperature reading
- Recall the Last Reading
- Large LCD Screen with bright amber color backlight
- Auto Power Off



Recall the last reading

Built-in Socket (TN430LC)

Bright amber color backlight

	TN436LD	TN430LC	TN430L2 TN436L2	TN430L1 TN436L1	TN430L0 TN436L0
Description	IRT + Laser	IRT + Laser + Thermocouple socket		IRT + Laser	
Measurement Range	-60~625°C(-76~1157°F)	-60~550°C(-76~1022°F)		-50~460°C(-58~860°F)	-38~365°C(-36.4~689°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C			≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C+0.05/°C)°C	
Distance : Spot	16:1		12:1		
Emissivity Range	0.95 default adjustable 0.1 to 1 step .01			0.95 or 0.70 (The default emissivity is 0.95)	
Resolution	0.1°C/0.1°F at -76~999.9(°C/°F), otherwise 1°C/1°F	0.1°C/0.1°F at -83.2~999.9(°C/°F), otherwise 1°C/1°F	0.1°C/0.1°F at -76~999.9(°C/°F), otherwise 1°C/1°F	0.2°C/0.5°F at -9.9~199.9(°C/°F), otherwise 1°C/1°F	
Mode	Ave, Dif, Lock, Max/Min, Hi/Low Temp Alarm			°C/°F, Max, Lock	
Thermocouple Probe	—	Small Socket, K type, 12 minutes auto power off		—	
Measurement Range*	—	-64~1400°C(-83.2~2552°F)		—	
Probe Accuracy	—	±1% of reading or 1°C(1.8°F) whichever is greater (Test under Tamb=23±6°C)		—	
Power Supply	AAA x 2				

\*Actual temperature range depends on the TC probe selected. Specifications are subject to change without notice

# Valuable Infrared Thermometer

TN433 · TN43C Series



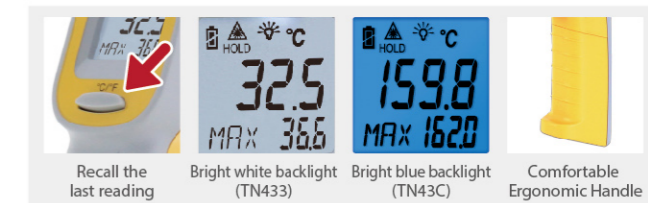
• AUTO • Power • HACCP • Industry • HVAC • Laboratory



TN433L0

TN43C

- Laser Sight for better targeting
- Real time maximum temperature reading
- Recall the Last Reading
- Large LCD Screen with backlight
- Auto Power Off: 15 seconds



Recall the last reading

Bright white backlight (TN433)

Bright blue backlight (TN43C)

Comfortable Ergonomic Handle

	TN433L0 / TN43CLO	TN433L1 / TN43CL1	TN433L2 / TN43CL3
Description		IRT + Laser	
Measurement Range	-38~365°C(-36.4~689°F)	-50~460°C(-58~860°F)	-60~550°C(-76~1022°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C+0.05/°C)°C		≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C
Distance : Spot	12:1		
Emissivity Range	0.95 Fixed		
Resolution	0.2°C/0.5°F at -9.9~199.9(°C/°F), otherwise 1°C/1°F		0.1°C/0.1°F at -76~999.9(°C/°F), otherwise 1°C/1°F
Mode	Max		
Power Supply	AAA x 2		

Specifications are subject to change without notice





# HACCP Thermometer

TCT70MF Series

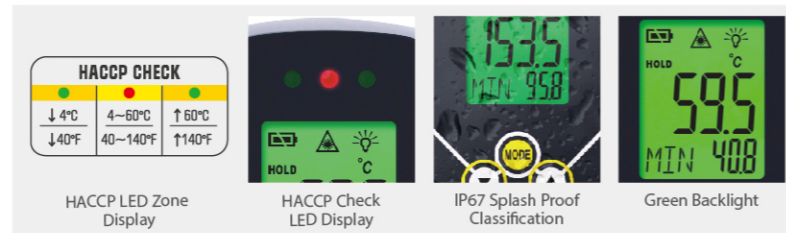


• HACCP • AUTO • Power • HVAC • Laboratory



TCT70MF

- Laser Sight for better targeting
- HACCP Indicator: LED display(Green/Red)
- IP67 Splash Proof Classification
- Large LCD screen with green backlight
- User-friendly Interface



# HACCP Thermometer

TCT522 Series

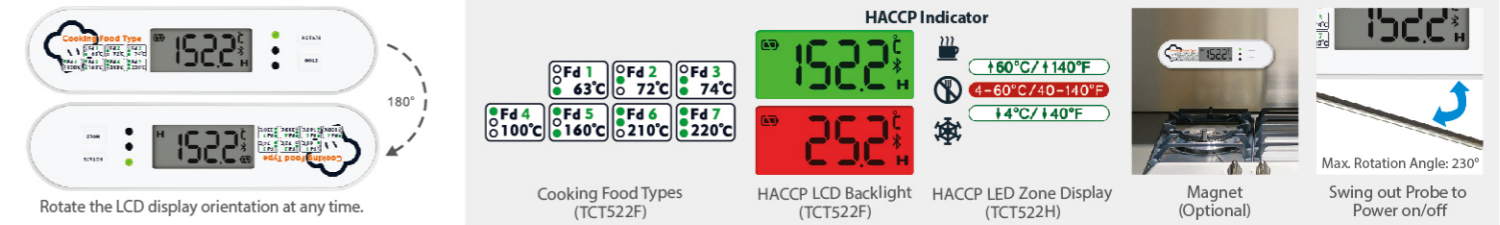


• HACCP • AUTO • Power • HVAC • Laboratory



TCT522H

- Cooking Food Types for kitchen measurement(TCT522F)
- HACCP Indicator
- LED Zone Display(TCT522H)
- 180° LCD Rotation Button
- 3 Sec. Fast Thermocouple Measurement
- IP67 Splash Proof Classification
- Magnet / Bluetooth(Optional)



	TCT70MF
Description	IRT + Laser
Measurement Range	-30~250°C(-22~482°F)
Full Range Accuracy (Tamb=23±3°C)	-30~0°C: ±(1°C+0.1/degree), 0~65°C: ±1°C, 65~250°C: ±1.5% of reading
Distance : Spot	8:1
Emissivity Range	0.95 default, adjustable 0.1 to 1 step .01
Resolution	0.1°C/0.1°F at -9.9~199.9°C/°F, otherwise 1°C/1°F
Mode	Real Time Max/Min, AVG, DIF, Hi/Low Alarm, Lock
Power Supply	AAA x 2

Specifications are subject to change without notice

	TCT522H	TCT522F
Description		Thermocouple Probe
Measurement Range		-50~300°C(-58~572°F)
Full Range Accuracy (Tamb=25°C)		-30~150°C: ±0.5°C/0.9°F, otherwise ±1°C/1.8°F or 1% of reading, whichever is greater
Resolution		0.1°C / 0.1°F
Response time(90%)		3 sec.
Power Supply		AAA x 2

Specifications are subject to change without notice

# HACCP Thermometer

TCT783 Series



• HACCP • AUTO • Power • HVAC • Laboratory



TCT783H

- 2 in 1 design: Infrared + Foldable Thermocouple Probe
- Cooking Food Types for kitchen measurement(TCT783F)
- 3 Sec. Fast Thermocouple Measurement
- IP67 Splash Proof Classification
- HACCP Indicator
- Bluetooth(optional)

**HACCP Indicator**

- HACCP LED Zone Display (TCT783H)
- HACCP LCD Backlight (TCT783F)
- Cooking Food Type (TCT783F)
- IP67 Splash Proof Classification
- Infrared Measurement
- Thermocouple Measurement

	TCT783H	TCT783F
Description	IRT + Thermocouple Probe	
Measurement Range	Infrared	-55~300°C(-67~572°F)
	Thermocouple	K type, -35~275°C(-31~527°F)
Infrared Accuracy (Tobj=15-35°C, Tamb=25°C)	+/-0.6°C(1.1°F)	
Infrared Accuracy (Tamb=23±3°C)	-55~0:+/-(1°C+0.1/degree), 0~65:+/-1°C, 65~250:+/-1.5% of reading	
Thermocouple Accuracy	below -5:+/-1°C; -5~ 65:+/-0.5°C; above 65:+/-1% of reading	
Distance : Spot	2.5:1	
Emissivity Range	0.95 default, adjustable 0.1 to 1 step .01	
Resolution	0.2°C/0.5°F, otherwise 1°C/1°F	
Mode	Max/Min, Lock, Haccp Check	
Power Supply	AAA x 2	

Specifications are subject to change without notice

# HACCP Thermometer

TCT703 · TCT303 Series



• HACCP • AUTO • Power • HVAC • Laboratory



TCT703LF



TCT303F

- 2 in 1 design: Infrared + Foldable Thermocouple Probe
- 3 Sec. Fast Thermocouple Measurement
- IP Classification: IP54(TCT703 Series)/IP65(TCT303 Series)
- HACCP Indicator
- Bright White LED as pointer(TCT303 Series)

**HACCP Indicator**

- HACCP LED Zone Display (TCT703F/TCT703LF2/TCT303)
- HACCP LCD Backlight (TCT703LF/TCT703LF2/TCT303F)
- Infrared Measurement
- Thermocouple Measurement
- 1 Sec. Thermocouple Response time
- HACCP Check LED Display & LCD Backlight
- TCT703L Series (Green Backlight)
- Dual LCD (TCT303)

	TCT703	TCT303	TCT303F
Description	IRT + Thermocouple Probe, (E) with LED Flashlight (optional)		
Measurement Range	Infrared	-60~350°C(-76~662°F)	-55~250°C(-67~482°F)
	Thermocouple	-60~350°C(-76~662°F)	-55~330°C(-67~626°F)
Infrared Accuracy (Tamb=23±3°C)	-60~0°C: ±(1°C+0.1/°C)°C, 0~65°C: ±1°C, 65~350°C: ±1.5% of reading	±2% of reading or 2°C(4°F) whichever is greater	-33~0°C: ±(1°C+0.1/°C) °C, 0~65°C: ±1°C, 65~250°C: ±1.5% of reading
Thermocouple Accuracy	<-5°C: +/-1°C, -5~ 65: +/-0.5°C >65°C: +/-1% of reading (Tamb=23±3°C)	±1% of reading or 0.8°C(1.5°F) whichever is greater (Tamb=23±6°C)	<-5°C: ±1°C, -5~65°C: ±0.5°C, >65°C: ±1% of reading (Tamb=23±3°C)
Distance : Spot	8:1	2.5:1	
Emissivity Range	0.95 default, adjustable 0.1 to 1 step .01		
Resolution	0.2°C/0.5°F, otherwise 1°C/1°F		
Mode	Max/Min, Lock, Haccp Check		
Power Supply	AAA x 2		

Specifications are subject to change without notice

# Thermocouple Thermometer

TCT01 Series



• HACCP • AUTO • Power • HVAC • Laboratory



TCT011S



TCT012S

- 3 Sec. Fast Thermocouple Measurement
- IP67 Splash Proof Classification
- HACCP Indicator: LED display(Green/Red)
- Auto Calibration
- Bright Amber Color Backlight
- Magnet Insert in Rear Cover



HACCP LED Zone Display

Attach to metal surface for easy storage  
Magnet Insert in rear cover

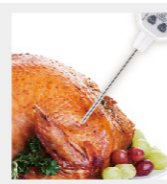


Magnet



3 Sec. Thermocouple Response time

3 Sec. Fast Measurement



Thermocouple Measurement



Timer



Temp. Alarm Mode / Backlight

	TCT011S	TCT012S
Description		Thermocouple Probe
Measurement Range		-50~250°C(-58~482°F)
Full Range Accuracy (Tamb=23±3°C)		-20~60°C(-4~140°F): ±0.5°C(0.9°F), other : ±0.8°C(1.5°F) or 0.8% of the reading
Thermocouple		T type
Resolution		0.1°C/0.1°F
Power Supply		CR2032 x 1

Specifications are subject to change without notice

# Thermocouple Thermometer

TCT032 · TCT012 · TCT013 Series



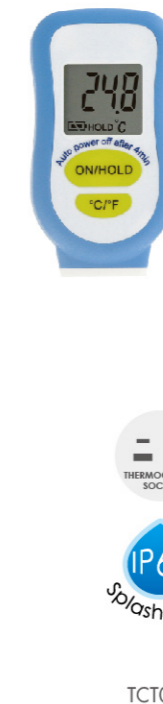
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TCT032



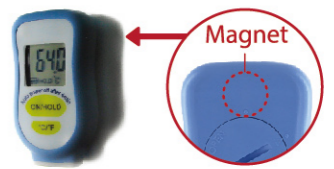
TCT012



TCT013

- IP65 Splash Proof Classification
- Compact Size K type Thermocouple Thermometer(TCT032/TCT012)
- Trimmer function(TCT032)
- Mini Size Socket to Fit with Various Probes(TCT013)
- Magnet Insert in Rear Cover(optional)

Attach to metal surface for easy storage  
Magnet Insert in rear cover (optional)



Magnet



3 Sec. Thermocouple Response time

3 Sec. Fast Measurement (optional)



Trimmer Self-Calibration (TCT032)



Built-in Socket (TCT013)

	TCT032	TCT012	TCT013K	TCT013T
Description		Thermocouple Probe		
Measurement Range		-50~350°C(-58~662°F)	K type, Socket: -64~1400°C(-83.2~1999°F)	T type, Socket: -50~350°C(-58~662°F)
Full Range Accuracy (Tamb=23±3°C)		±0.8% of reading or 0.8°C(1.5°F) whichever is greater		±1% of reading or 0.1°C(1.8°F) whichever is greater
Resolution	0.1°C/0.1°F at -58~199.9(°C/°F), otherwise 1°C/1°F	0.1°C/0.1°F at -9.9~199.9(°C/°F), otherwise 1°C/1°F		
Power Supply		CR2032 x 1		

Specifications are subject to change without notice



# Compact IR & Thermocouple Thermometer

TCT4 Series



• HACCP • AUTO • Laboratory



TCT401

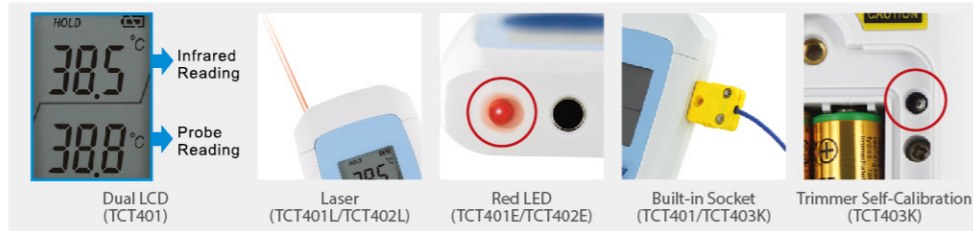


TCT402



TCT403K

- Mini Size Socket Fits with Various TC Probes (TCT401/TCT403K)
- Laser Sight Technology(TCT401/TCT402 optional)
- Red LED Flashlight when Press Scan Button (TCT401/TCT402 optional)
- IP65 Splash Proof Classification
- Trimmer function is used for self-calibration (TCT403K)



	TCT401	TCT402	TCT403K
Description	IRT + Thermocouple socket (L) with Laser (optional), (E) with Red LED Flashing (optional)		K type, Socket
Measurement Range	-50~350°C(-58~662°F)		
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C Thermocouple: ±1% of reading or 1°C(1.8°F) whichever is greater	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C +0.05/°C) °C	±1% of reading or 1°C(1.8°F) whichever is greater
Distance : Spot	1:1		—
Emissivity Range	0.95 default adjustable from 0.1 to 1 step .01		—
Resolution (-9.9~199.9°C/°F)	0.1°C/0.1°F, otherwise 1°C/1°F		
Mode	Max/Min, Lock		—
Power Supply	AAA x 2		

Specifications are subject to change without notice

# Compact Infrared Thermometer

TN110M Series



• HACCP • Household • HVAC • Laboratory • Power • AUTO • Hobby



TN110M



- Measuring Small Objects in Near Range
- Compact and Handy Design Size
- Various Applications in Household
- Magnet in Rear Cover for attaching to metal surface
- LCD Display & Auto Power Off



	TN110M
Description	IRT
Measurement Range	-33~220°C(-27.4~428°F)
Full Range Accuracy (Tamb=23±3°C)	±2.5% of reading or 2.5°C(4.5°F) whichever is greater
Distance: Spot	1:1
Emissivity Range	0.95 Fixed
Resolution	0.5°C/0.5°F at -9.9~199.9(°C/°F), otherwise 1°C/1°F
Mode	Clock
Power Supply	CR2032 x 1

Specifications are subject to change without notice

# Compact Infrared Thermometer

TN205 · TN185 · TN105 Series

• HACCP • Household • HVAC • Laboratory • Power • AUTO • Hobby



TN205



TN185



**Housing Color**  
 ● TN105C  
 ● TN105i2  
 TN105J/TN105P

- Measuring Small Objects in Near Range
- Compact and Handy Design Size
- Various Applications in Household
- Adjustable Emissivity
- LCD Display & Auto Power Off



# Ultra / Compact Infrared Thermometer

TN00S · TN01S Series

• Aquarium • Household • Fishing • Laboratory • AUTO • HACCP



IP67  
 Splash Proof

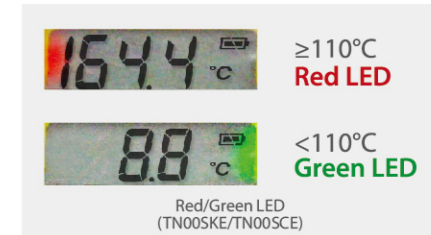
TN00SK1  
 TN00SK2  
 TN00SKE



IP67  
 Splash Proof

TN00SC1  
 TN00SC2  
 TN00SCE

- Worldwide Small Infrared Thermometer
- Measuring Small Objects in Near Range
- IP67 Splash Proof Classification
- $\geq 110^{\circ}\text{C}$  Red LED,  $< 110^{\circ}\text{C}$  Green LED (TN00SKE/TN00SCE)
- $^{\circ}\text{C}/^{\circ}\text{F}$  Switch Mode (except TN00SKE/TN00SCE)



	TN205L	TN185	TN105C	TN105i2	TN105J	TN105P
Description	IRT					
Measurement Range	-55~250°C(-67~482°F)		-33~220°C(-27.4~428°F)			
Full Range Accuracy (Tamb=23±3°C)	±2% of reading or 2°C(4°F) whichever is greater	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C +0.05/°C) °C	±2% of reading or 2°C(4°F) whichever is greater			
Distance: Spot	6:1	5:1	1:1			
Emissivity Range	0.95 default adjustable from 0.05 to 1.00 step .01					
Resolution (-9.9~199.9°C/°F)	0.1°C/0.1°F, otherwise 1°C/1°F	0.1°C/0.1°F, otherwise 1°C/1°F (for thermometer); 0.01 sec (for Stop Watch)		0.1°C/0.1°F, otherwise 1°C/1°F		
Mode	Max / Min, Lock	Max, Min, Lock, Clock, Stopwatch, Foldable Stand, Ambient Display		Max / Min, Lock, Foldable Stand	Max / Min, Lock, Clip	Max / Min, Lock, Clock, Stopwatch
Power Supply	CR2032 x 1					

Specifications are subject to change without notice

	TN00SK1 / TN00SC1 / TN01SC1	TN00SK2 / TN00SC2 / TN01SC2	TN00SKE / TN00SCE / TN01SC3
Description	IRT		
Measurement Range	-33~110°C(-27.4~230°F)	-33~180°C(-27.4~356°F)	-55~220°C(-67~428°F)
Full Range Accuracy (Tamb=23±3°C)	≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C +0.05/°C) °C		≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C +0.05/°C) °C
Distance: Spot	1:1		
Emissivity Range	0.95 Fixed		
Resolution (-9.9~199.9°C/°F)	0.2°C/0.5°F, otherwise 1°C/1°F		0.1°C/0.1°F, otherwise 1°C/1°F
Mode	$^{\circ}\text{C}/^{\circ}\text{F}$ switchable		Either $^{\circ}\text{C}$ or $^{\circ}\text{F}$
Power Supply	LR44 x 2(TN00S Series) ; AAA x 1(TN01S Series)		

Specifications are subject to change without notice

# Ultra / Compact Infrared Thermometer

TN004 · TN005 · TN006 · TN007 Series

• HACCP • Household • Horticulture • HVAC • Laboratory • AUTO



TN004  
TN006



TN005  
TN007



Red LED Light  
(TN005 / TN007)

- Worldwide Small Infrared Thermometer
- Measuring Small Objects in Near Range
- Compact and Handy Design Size
- Various Applications in Household
- LCD Display & Auto Power Off

	TN004	TN006	TN005	TN007
Description	IRT			
Measurement Range	-33~110°C(-27.4~230°F)	-33~180°C(-27.4~356°F)	-33~110°C(-27.4~230°F)	-33~180°C(-27.4~356°F)
Full Range Accuracy (Tamb=23±3°C)	±2.5% of reading or 2.5°C(4.5°F) whichever is greater			
Distance: Spot	1:1			
Emissivity Range	0.95 Fixed			
Resolution (-9.9~199.9°C/°F)	0.2°C/0.5°F, otherwise 1°C/1°F		0.1°C/0.1°F, otherwise 1°C/1°F	
Mode	°C/°F switchable			
Power Supply	LR44 x 2			

Specifications are subject to change without notice

# Ultra / Compact Infrared Thermometer

TN002 · TN006C · TN008C Series

• HACCP • Aquarium • Household • HVAC • Laboratory • AUTO • Hobby



TN002Ci



TN002Ki



TN006C



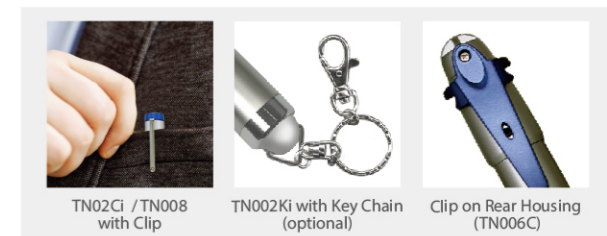
### Housing Color

- TN008C1
- TN008C2
- TN008Ci

- Worldwide Small Infrared Thermometer
- Measuring Small Objects in Near Range
- Compact and Handy Design Size
- Various Applications in Household
- LCD Display & Auto Power Off

	TN002Ci / TN002Ki	TN006C	● TN008C1	● TN008C2	● TN008Ci
Description	IRT				
Measurement Range	-33~220°C(-27.4~428°F)	-33~110°C(-27.4~230°F)	-33~180°C(-27.4~356°F)	-33~180°C(-27.4~356°F)	-55~220°C(-67~428°F)
Full Range Accuracy (Tamb=23±3°C)	±2% of reading or 2°C(4°F) whichever is greater		≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C +0.05/°C)°C		≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C +0.05/°C)°C
Distance: Spot	1:1				
Emissivity Range	0.95 Fixed				
Resolution (-9.9~199.9°C/°F)	0.1°C/0.1°F, otherwise 1°C/1°F		0.2°C/0.5°F, otherwise 1°C/1°F		0.1°C/0.1°F, otherwise 1°C/1°F
Mode	°C/°F switchable				
Power Supply	LR44 x 2				

Specifications are subject to change without notice



TN002Ci / TN008  
with Clip

TN002Ki with Key Chain  
(optional)

Clip on Rear Housing  
(TN006C)

# Infrared Module | Available Probe

TN9 Series · K type & T type

• Process Control • HACCP • HVAC • Household



TN901



TN905-05F



TN907



TN90A

	TN901	TN905-05F	TN907	TN90A
Description	Compact Digital Thermometer Module	Compact Digital Thermometer Module (with Thinner Mirror)		Compact Digital Thermometer Module
Measurement Range	-33~220°C(-27.4~428°F)	-33~350°C(-27.4~662°F)	-32~500°C(-25.6~932°F)	0~1000°C(32~1832°F)
Full Range Accuracy (Tamb=23±3°C)	±2%, 2°C	above 0°C: ±2%, ±2°C whichever is greater; below 0°C: ±(2+0.07/°C)°C		
Distance: Spot	1:1	5:1	25:1	50:1
Laser	—	—	1 point	2 point
Emissivity Range	0.95 default, 0.01~1 step .01			
Resolution	1/16 °C		0.1°C	

Specifications are subject to change without notice

Description	Product Photo Image	Measurement Range	Accuracy	Grounded	Response Time (in still water 90%)	Response Time (in still air 90%)	Diameter of the Probe Tip	Diameter of the Probe	Length of Probe	Length of Cable (from tip of plug)	Length of Cable / Max Length (from tip of plug)	Type of Extension Cable	Type of Plug	Material of Probe	Weight (no package)
SU (Surface)		-100~400°C (-148~752°F)	0.75%	Yes	NA	NA	K:15±0.1mm T:15mm	K:6.35±0.1mm T:6.3mm	K:165±1.0mm T:150+60mm	K:500±50mm T:720mm	K:1500mm T:720mm	K: Coiled	Miniature	SUS316 or SUS304	120±10g
PB (Penetration Bluted)				K: No T: Yes	K: 5 sec. T: NA		K:3.2±0.1mm T:3.2mm	K:3.2±0.1mm T:3.2mm	K:200±1.0mm T:200mm	K:740±50mm T:720mm	K:1740mm T:720mm				85±10g
PN (Penetration)				K:3.17±0.1mm T:3.2mm	K:3.17±0.1mm T:3.2mm		K:100±1.0mm T:100mm	K:740±50mm T:720mm	K:1740mm T:720mm	80±10g					
AR (Air)				Yes	NA		K: 5 sec. T: NA	K:10.2±0.1mm T:10mm	K:8±0.1mm T:8mm	K:190±1.0mm T:155mm	K:550±50mm T:720mm				K:1600mm T:720mm
Bead		-50~250°C (-58~482°F)	—	—	K: 2 sec. T: NA	NA	—	—	—	K:1000±10mm T:100mm	K:1000±10mm T:100mm	Straight	—	30±10g	

K: K type T: T type Specifications are subject to change without notice

# ZtTemp Family

	TIM038VL	TIM06V	TIM03V	TIM03
Meas. Range	-20~500°C(-4~932°F)			
Infrared Accuracy	±2% of reading, or 2°C (4°F) whichever is greater			
Resolution	160 x 120(Thermal Image) 640 x 480(Visual Image)	60 x 40(Thermal Image) 640 x 480(Visual Image)	32 x 32(Thermal Image) 640 x 480(Visual Image)	32 x 31(Thermal Image)

	TN49ALA	TN49ALB	TN49RXG TN49RXC	TN49RXBG	TN49SLB	TN49SLC
Meas. Range	-60~760°C(-76~1400°F)	-60~1000°C(-76~1832°F)	-60~550°C(-76~1022°F)	-60~1000°C(-76~1832°F)	-60~760°C(-76~1400°F)	-60~550°C(-76~1022°F)
Full Range Accuracy	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C					
D : S	16:1	35:1	12:1	30:1		12:1

	TN568LC2	TN568LC1	TN768LB	TN768LC	TN768LD	TN758LC	TN758LB
Meas. Range	200~2400°C (392~4352°F)	100~1800°C(212~3272°F)		-35~1500°C (-31~2732°F)	-60~1500°C (-76~2732°F)	-35~1600°C (-31~2912°F)	100~2000°C (212~3632°F)
Full Range Accuracy	±2% of reading			≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	±2% of reading or 2°C(4°F) whichever is greater	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	±2% of reading
D : S	100:1		75:1		50:1	60:1	75:1

	TN475LC	TN425LN	TN425LB	TN425LA	TN425LM	TN425LC	TN425L
Meas. Range	-60~1600°C(-76~2912°F)	-60~1500°C(-76~2192°F)		-60~1200°C(-76~2192°F)	-60~1000°C(-76~1832°F)		
Full Range Accuracy	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	Tobj:-33~1500°C: ±2% of reading or 2°C(4°F) whichever is greater		Tobj:-33~1200°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj:-33~1000°C: ±2% of reading or 2°C(4°F) whichever is greater		
D : S	75:1			50:1			

	TN423LA	TN423LB	TN423LC	TN499LB / TN498LB TN497LB / TN496LB	TN498LD / TN497LD / TN496LD	TN499LC / TN498LC TN497LC / TN496LC
Meas. Range	-60~1500°C(-76~2732°F)	-60~1000°C(-76~1832°F)	-60~860°C(-76~1580°F)	-60~760°C(-76~1400°F)	-60~625°C(-76~1157°F)	-60~550°C(-76~1022°F)
Full Range Accuracy	Tobj:-33~1500°C: ±2% of reading or 2°C(4°F) whichever is greater		Tobj:-33~1000°C: ±2% of reading or 2°C(4°F) whichever is greater	Tobj:-33~860°C: ±2% of reading or 2°C(4°F) whichever is greater	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	
D : S	35:1		30:1	30:1	16:1	12:1

	TN43PL2 TN43SL2	TN43PL1 TN43SL1	TN418LD TN410LD	TN418LB TN410LB	TN418LA TN410LA	TN418L9 TN410L9
Meas. Range	-60~550°C(-76~1022°F)		-50~460°C(-58~860°F)		-60~625°C(-76~1157°F)	
Full Range Accuracy	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C		≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C+0.05/°C)°C		≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	
D : S	12:1		16:1		30:1	16:1

# ZtTemp Family

	TN418LC TN410LC	TN418L2 TN410L2	TN418L3 TN410L3	TN418L1/ TN418LOY TN410L3	TN418LOZ
Meas. Range	-60~500°C(-76~932°F)	-60~625°C(-76~1157°F)	-60~500°C(-76~932°F)		-60~550°C(-76~1022°F)
Full Range Accuracy	Tobj: -33~500°C: ±2% of reading or 2°C(4°F) whichever is greater	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	Tobj: -33~500°C: ±2% of reading or 2°C(4°F) whichever is greater	≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C+0.05/°C)°C	
D : S	12:1	16:1	12:1		15:1

	TN41ALB	TN41ALC	TN41ALD	TN41AL3
Meas. Range	-60~760°C(-76~1400°F)	-60~500°C(-76~932°F)	-60~625°C(-76~1157°F)	-60~500°C(-76~932°F)
Full Range Accuracy	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C			
D : S	30:1	12:1	16:1	12:1

	TN436LD	TN430LC	TN430L2 TN436L2	TN430L1 TN436L1	TN430L0 TN436L0	TN433L0 TN43CL0	TN433L1 TN43CL1	TN433L2 TN43CL3
Meas. Range	-60~625°C(-76~1157°F)	-60~550°C(-76~1022°F)	-50~460°C(-58~860°F)	-38~365°C(-36.4~689°F)	-50~460°C(-58~860°F)	-60~550°C(-76~1022°F)		
Full Range Accuracy	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C		≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C+0.05/°C)°C			≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C		
D : S	16:1	12:1						

	TCT70MF	TCT522	TCT783	
Meas. Range	-30~250°C(-22~482°F)	-50~300°C(-58~572°F)	Infrared: -55~300°C(-67~572°F)	Thermocouple: -35~275°C(-31~527°F)
Full Range Accuracy	-30~0°C: ±(1°C+0.1/degree), 0~65°C: ±1°C, 65~250°C: ±1.5% of reading	-30~150°C: ±0.5°C/0.9°F, otherwise ±1°C/1.8°F or 1% of reading, whichever is greater	-55~0: +/- (1°C+0.1/degree), 0~65: +/- 1°C, 65~250: +/- 1.5% of reading	<-5°C: +/- 1°C, -5~65°C: +/- 0.5°C, >65°C: +/- 1% of reading
D : S	8:1		2.5:1	

	TCT703		TCT303		TCT303F	
Meas. Range	Infrared: -60~350°C(-76~662°F)	Thermocouple: -60~350°C(-76~662°F)	Infrared: -55~250°C(-67~482°F)	Thermocouple: -55~330°C(-67~626°F)	Infrared: -55~250°C(-67~482°F)	Thermocouple: -55~330°C(-67~626°F)
Full Range Accuracy	-60~0°C: ±(1°C+0.1/°C)°C, 0~65°C: ±1°C, 65~350°C: ±1.5% of reading	<-5°C: ±1°C, -5~65°C: ±0.5°C, >65°C: ±1% of reading	±2% of reading or 2°C(4°F) whichever is greater	±1% of reading or 0.8°C(1.5°F) whichever is greater	-33~0°C: ±(1°C+0.1/°C) °C, 0~65°C: ±1°C, 65~250°C: ±1.5% of reading	<-5°C: ±1°C, -5~65°C: ±0.5°C, >65°C: ±1% of reading
D : S	8:1		2.5:1			

	TCT011S	TCT012S	TCT032	TCT012	TCT013	
Meas. Range	-50~250°C(-58~482°F)		-50~350°C(-58~662°F)		K type, Socket: -64~1400°C(-83.2~1999°F)	T type, Socket: -50~350°C(-58~662°F)
Full Range Accuracy	-20~60°C: ±0.5°C(0.9°F), other : ±0.8°C (1.5°F) or 0.8% of the reading		±0.8% of reading or 0.8°C(1.5°F) whichever is greater		±1% of reading or 0.1°C(1.8°F) whichever is greater	
D : S	—					

# ZtTemp Family

	TCT401	TCT402	TCT403K
Meas. Range	Infrared/Thermocouple: -50~350°C(-58~662°F)	Infrared: -50~350°C(-58~662°F)	Thermocouple: -50~350°C(-58~662°F)
Full Range Accuracy	Infrared: ≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C Thermocouple: ±1% of reading or 1°C(1.8°F) whichever is greater	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C+0.05/°C)°C	±1% of reading or 1°C(1.8°F) whichever is greater
D : S	1:1		

	TN110M	TN205	TN185	TN105C	TN105i2	TN105J	TN105P
Meas. Range	-33~220°C(-27.4~428°F)	-55~250°C(-67~482°F)		-33~220°C(-27.4~428°F)			
Full Range Accuracy	±2.5% of reading or 2.5°C(4.5°F) whichever is greater	±2% of reading or 2°C(4°F) whichever is greater	≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C +0.05/°C) °C	±2% of reading, or 2°C (4°F) whichever is greater			
D : S	1:1	6:1	5:1	1:1			

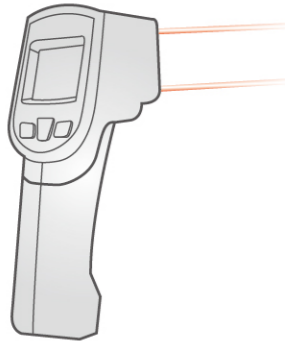
	TN00SK1/ TN00SC1 TN01SC1	TN00SK2/ TN00SC2 TN01SC2	TN00SKE/ TN00SCE TN01SC3	TN004/ TN005	TN006/ TN007
Meas. Range	-33~110°C(-27.4~230°F)	-33~180°C(-27.4~356°F)	-55~220°C(-67~428°F)	-33~110°C(-27.4~230°F)	-33~180°C(-27.4~356°F)
Full Range Accuracy	≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C +0.05/°C)°C		≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C +0.05/°C) °C	±2.5% of reading, or 2.5°C (4.5°F) whichever is greater	
D : S	1:1				

	TN006C	TN002	TN008C1	TN008C2	TN008CI
Meas. Range	-33~220°C(-27.4~428°F)		-33~110°C(-27.4~230°F)	-33~180°C(-27.4~356°F)	-55~220°C(-67~428°F)
Full Range Accuracy	±2% of reading or 2°C(4°F) whichever is greater		≥0°C: ±2.5% of reading or 2.5°C(4.5°F) whichever is greater <0°C: ±(2.5°C +0.05/°C)°C		≥0°C: ±2% of reading or 2°C(4°F) whichever is greater <0°C: ±(2°C +0.05/°C) °C
D : S	1:1				

	TN901	TN905-05F	TN907	TN90A
Meas. Range	-33~220°C(-27.4~428°F)	-33~350°C(-27.4~662°F)	-32~500°C(-25.6~932°F)	0~1000°C(32~1832°F)
Full Range Accuracy	±2%, 2°C		≥0°C: ±2%, ±2°C whichever is greater; <0°C: ±(2+0.07/°C)°C	
D : S	1:1	5:1	25:1	50:1




### DUAL LASER

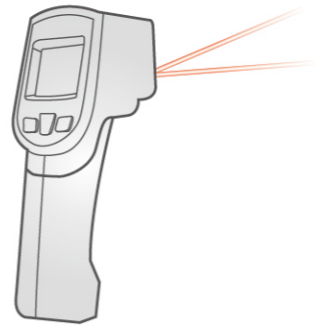


**Dual Laser**

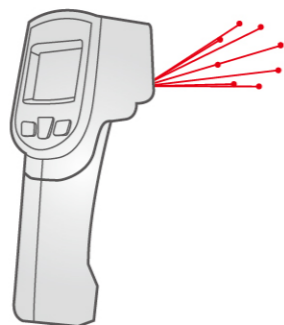
### SINGLE LASER



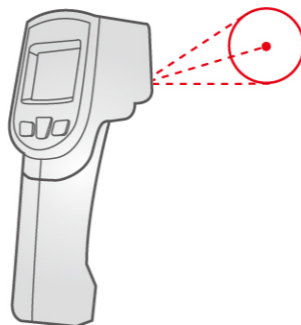
**Single Beam Laser**



**Dual Beam Laser  
(Model with Y/Z)**

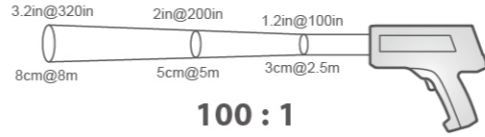


**8 Beam Laser  
(Model with X)**

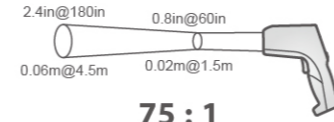


**Circle Laser  
(Model with H)**

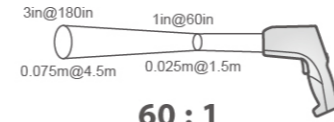
### 100 : 1



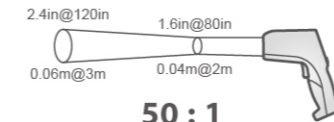
### 75 : 1



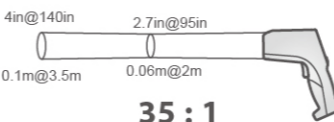
### 60 : 1



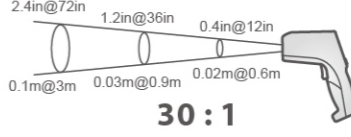
### 50 : 1



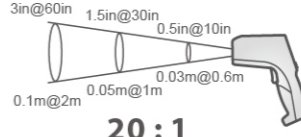
### 35 : 1



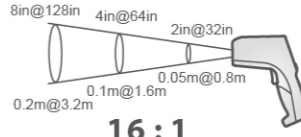
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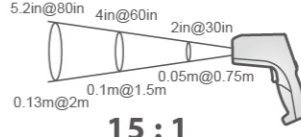
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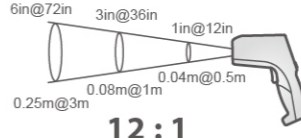
### 16 : 1



### 15 : 1

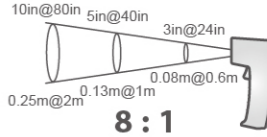


### 12 : 1

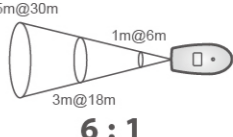


### DISTANCE:SPOT

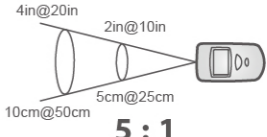
### 8 : 1



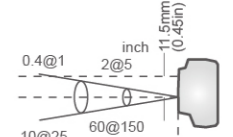
### 6 : 1



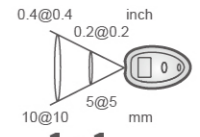
### 5 : 1



### 2.5 : 1



### 1 : 1



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