

Infrared Archway Thermo Detector

RG-WX-TD01

Ruijie Networks Co., Ltd

For more information, please visit our website <https://www.ruijienetworks.com>

Overview

Ruijie's infrared archway thermo detector boasts accurate temperature measurement in a non-contact manner. Foreheads where temperatures are fast taken are recognized via AI technologies.

This archway thermo detector is suitable to such crowded scenarios as transportation hubs, industrial parks, office buildings, schools, hospitals, public security organizations and governmental agencies.

Indoor environments would help the device have the best performance.



RG-WX-TD01

Features

Non-Contact Measurement

For people going through the detector, their temperatures are checked once their foreheads are recognized.

The temperature precision is $\pm 0.3^{\circ}\text{C}$ (with a black body) @ 0.8m to 1.5m and $\pm 0.5^{\circ}\text{C}$ (without a black body) @ 0.5m to 1m.

And the devices works on people whose heights are below 2m.

Alarming

A threshold can be set. Therefore, if people with temperatures higher than the threshold, the alarm system is triggered and gives out sounds.

The First Line of Defense

Measured results are displayed immediately.

Components are modularized to facilitate transportation and maintenance.

An 8-in screen is installed.

Another monitoring PC can be connected via the Ethernet port.

Technical Specifications

RG-WX-TD01 Infrared Archway Thermo Detector		
Type	Indicator	Description
Thermal Imaging	Sensor type	Uncooled detector
	Max image size	160×120
	Response wave band	8~14μm
	NETD (Noise Equivalent Temperature Difference)	≤ 40mk (@25°C, F#=1.0)
	Focal length of thermal camera	3mm
	Frame frequency	25Hz
	Field angle of thermal camera	50°×37.2°
	F value	1.1
	Pseudo color	White, black, multiple colors, and amber
Visible Light	Sensor type	4-million (1600 x 2500) 1/2.7" Progressive Scan CMOS
	Min illuminance	0.0018Lux @ (F1.6, AGC ON), 0 Lux with IR
	Shutter	1/3s to 1/100,000s
	Focal length	4mm
	ICR	ICR infrared light filter
Imaging	Fusion of two types of lights	Support fusion of thermal imaging channels and visible light information to improve image quality
	Smart information overlying	Support adding information in thermal images to visible-light images (Information of temperature measurement rules and values)
Smart Alarming Functionality	Sound alarm	Support. Alarms are triggered to warn high temperatures, saying "You have a high temperature, please check again".
Temperature Measuring	Temperature measuring	Thermal imaging technology
	Body temperature measuring	Support AI face detection so as to measure body temperatures of many subjects at one time

	Measuring range	30°C to 45°C (86°F to 113°F)
	Response time	Real-time response
	Measurement Precision	±0.3°C (with blackbody) @ 0.8m to 1.5m, ±0.5°C (without blackbody) @ 0.5m to 1m
Compression Standard	Video compression standard	H.265/H.264/MJPEG
	H265 encoding type	Main Profile
	H264 encoding type	Base Line Profile / Main Profile / High Profile
	Video compression rate	32 Kbps~8Mbps
	Audio compression standard	G.711/G.722.1/G.726/MP2L2/PCM
	Audio compression rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-192Kbps(MP2L2)
Displaying Features	Screen dimension	8 inch
	Resolution	1280 x 800
	Horizontal/Vertical viewing angle	150°/150°
	Aspect ratio	4:3
	Touch screen	Support
System	Input power	220 V
	Power	< 50W
	Operating temperature and humidity	15°C to 35°C (59°F to 95°F), < 90% RH
	IP rating	IP53
	Weight	< 75 kg
Dimensions (H x W x D)	Contour dimensions	2.20m x 0.82m x 0.55m
	Channel dimensions	2.00m x 0.7m x 0.55m

Measurement Parameters				
Model	Blackbody-Camera Distance	Pitch Angle	Measurement Distance (With a blackbody)	Measurement Distance (Without a blackbody)
RG-WX-TD01	1m	< 20°	0.8m to 1.5m	0.5m to 1.5m

Packing Information

Model	Packing Size (mm)	Weight
RG-WX-TD01	Detector: 2320 x 650 x 250 Package Box: 850 x 480 x 450	52 kg

Ordering Information

Model	Description	Remarks
RG-WX-TD01	Infrared archway thermo detector	Imaging resolution: 160 x 120 8-in screen Supports connection with a PC