

# BTDS - Body Temperature Detection System

**Rapid Temperature Screening for Workplace Health**



Based on the research by CDC, fever is one of the early symptoms of COVID-19

Symptom	Prevalence (%)	Symptom	Prevalence (%)
Dry cough	60.4	Headache	42.6
Shortness of breath or breathing difficulties	41.1	Sore throat	31.2
<b>Fever</b>	<b>55.5</b>	Smell and taste disturbance	64.4
Muscle pain	44.6	Fatigue	68.3

RuggON Body Temperature Detection System - BTDS provides the contactless human body temperature scanning with the high sensitive thermal camera.

- \* **Very easy to setup** - 5 minutes setup time, including calibration
- \* **High accuracy** - BTDS uses FLIR thermal camera module (reaches +/- 0.5 Celcius degree accuracy.)
- \* **Cost saving** - No monthly charge on the system; no additional staff measuring body temperature at the entrance.

**Protect Your Customers, Protect Your Employees**

# Specifications

## SYSTEM

Measuring Distance	0.5M ~1M
Accuracy	±0.5°C (@25°C)( after calibration to environment)
Offset Adjustment	On-screen adjustment, ±5°C
System Power	5V/2A

## HMI

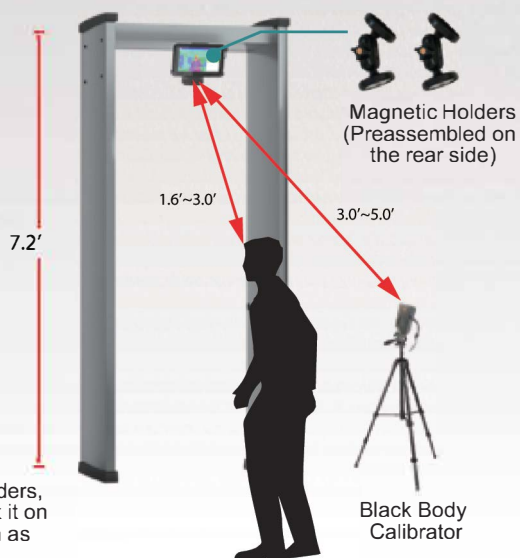
HMI Display	8" Capacitive touch screen
CPU	Quad-Core ARM Cortex-A53 1.0Ghz
OS	Android 7.0
Memory	3GB LPDDR2
Storage	16GB eMMC
Brightness	400 nits
Control	Reset button, Volume control
I/O	Micro USB (power connection) microSD card slot (max 64G) (for App upgrade)
LED	Power status LED

## THERMAL SYSTEM

Thermal Imaging	Lepton 2.5, on board
Spectral Range	Longwave infrared, 8µm to 14 µm
Array Format	80 x 60
Field of View	51° x 63.5° (H x D)
Power Jack	1 x 3-pin M8 power jack (IP67)
Button	Power button
LED	3-color LED; Pair, Link, Activity
Calibration	Blackbody, ±0.3°C
Blackbody Power	Power Input: DC5V/2.5A Power adapter: 5V/2.5A, 3M

All specifications are subject to change without notice. Last update: 27/04/2020

**Magnetic Mount:**  
Include 2 magnetic holders, easy to securely mount it on any metal surface such as door frame.



## COMMUNICATION

Wi-Fi	802.11 a/n/g/n
WiFi Antenna	Built-in dual band (2.4G/5G) chip antenna

## CERTIFICATION

Compliance	CE, FCC, NCC
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## MECHANICAL DESIGN

Dimensions	BTDS: 226.7 x 252.1 x 81.1 mm (W x H x D) Blackbody: 90 x 130 x 33 mm (W x H x D)
Net Weight	BTDS w/o magnetic holders: 1.40 kg BTDS w/ magnetic holders: 1.59 kg Blackbody: 0.81 kg
Working Temp.	15~30 °C
Storage Temp.	-10~50 °C

## PACKAGE CONTENT

Contents	<ul style="list-style-type: none"> <li>● BTDS (including Infrared camera, HMI, mounting plate, Y-power cable and 2 x magnetic holders, all preassembled)</li> <li>● BTDS Universal Power Adapter</li> <li>● Blackbody Calibrator, w/ power adapter</li> </ul>
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Package Dimension	19.7 x 12.2 x 4.9 inch (L x W x H)
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Weight	7.7 lb
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Optional Accessories	<ul style="list-style-type: none"> <li>● Tripod for BTDS (2.8M, standard 1/4" thread)</li> <li>● Tripod for the blackbody calibrator (1.5M, standard 1/4" thread, HS368)</li> </ul>
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### Tripod Mount:

Include a mount plate with an universal 1/4" threaded tripod socket for installation on a tripod

