TempChecker
Infrared Temperature Screening System

NUCTECH infrared temperature screening system TempChecker combines infrared thermal imaging technology and visible light imaging technology in one, to fulfill a non-contact, large scene real-time temperature measurement and screening function. Based on deep learning algorithms which can accurately locate the face position and avoid interference from unrelated high temperature objects measurement. The system will automatically alert if abnormal body temperature is detected.

Application scenarios: Mainly used in public places with dense crowds of people, such as Airports, Subways, Bus stops, Ports, Schools, Hotel, Buildings, Supermarkets, etc.
**Features**

**Stable Intelligent temperature measurement**
Precisely locate human faces using deep learning algorithms to avoid the influence of irrelevant heat sources, and work stable while wearing a mask. Intelligent distance compensation, which greatly reduces the large fluctuations of ordinary infrared temperature measurement cameras when the distance changes.

**High throughput without stopping**
TempChecker enables no-sense temperature measurement of multiple people at the same time. People don’t have to stop and wait. The throughput is high, with more than 120 persons per minute. Measuring from a safe distance from 1m to 5m and no contact temperature measurement ensures very low risk of disease infection.

**Accurate automatic temperature calibration**
Automatic temperature calibration according to the environment to achieve a high temperature measurement accuracy of ±0.3 °C, without manual operation.

**Data Security**
Alarm data traceable, provide daily temperature data statistics and efficient epidemic management. Personal information with normal temperature will not be stored.

**Specification**

| Infrared Camera Resolution | 384 x 288 |
| Field of View | 37.9° x 28.7° (H x V) |
| Focal Length | 9.7mm |
| Measurement Range | 30°C ~ 45°C |
| Measurement Distance | 1m~5m |
| Measurement Accuracy | ≤0.3°C |
| Efficiency | 120 persons /min |
| Visible Camera Resolution | 1920 x 1080 |
| Operation Temperature | 0°C ~ 40°C |
| Operation Environment | indoor |

*TempChecker is not intended, nor designed, to diagnose or detect medical conditions including, but not limited to, coronavirus or other infections.*

NUCTECH COMPANY LIMITED
Address: 2/F Block A, Tongfang Building, Shuangqinglu, Haidian District, Beijing 100084, P.R. China
Tel: +8610 50980999
Fax: +8610 62788896
Http://www.nuctech.com

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NUCTECH HAS BEEN AWARDED: THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2008)
NUCTECH HAS BEEN AWARDED: THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT