Yates Protect

Y- 530

PORTABLE THERMAL DETECTOR

Yates Protect Y-530 User Manual

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Product Introduction

This unique thermal-detector can detect human body surface temperature from a safe distance and without physical contact. This method helps prevent the spread . of infectious diseases. This system uses the highest quality and most precise temperature sensor on the market today.

In addition to a green light signifying in-range temperatures and a red light indicating out-of-range body temperatures, this system also uses voice warningsThese voice warnings can be customized to your desired language.

This high-quality temperature sensor integrates into walk-thorough metal detectors, ordinary doors, intelligent access control systems, disinfection equipment, and other equipment that uses temperature measurement functions.

Product Highlights

Human Body Temperature Screening

- Dynamically monitor and screen human body temperature
- Infrared monitor takes precise temperature measurements
- Built-in high-precision miniature monitor

High-quality Components

- Highly accurate and reliable with stable performance.

Modular Component Design

- Modular design allows the unit to be used as a stand-alone or integrated into other equipment and instruments
- Durable, solid-metal case helps prevent damage to the unit

Easy to Use

- Modular design allows the unit to be used as a stand-alone or integrated into other equipment and instruments

Product Features

Quick Screening

- Easily and actively collect infrared temperature data
- Human operator NOT required for temperature measurement
- Temperature measurement completed in less than one second

Non-contact Temperature Measurement:

- The infrared temperature sensor allows no contact temperature reading
- No contact temperature reading helps to eliminate cross-contamination between people
- Temperature read from the wrist or forehead

Voice Alarm

- Voice alarm quickly states, “Your temperature is normal” or “Please check again”
- Customize the voice alarm to speak different languages

Visual Notification

- Green light for normal temperature
- Red light for temperatures out-of-range

Application Environment

- Operates normally in temperatures of 14°-104°F [-10°-40°C].

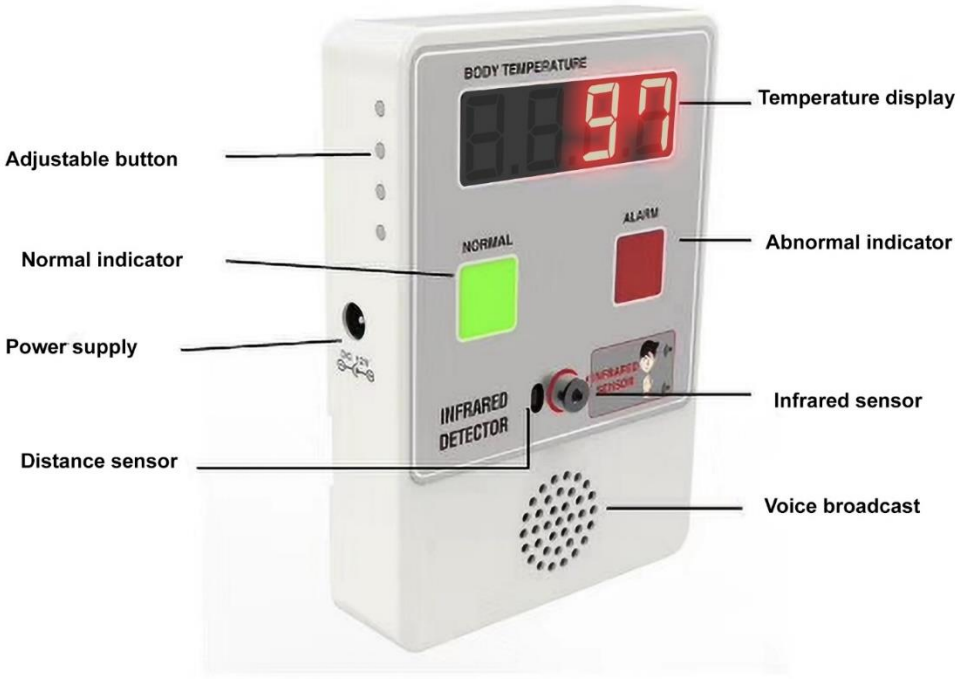
Panel Display

- Easy-to-read, clear and bright digital display
- Works in a wide range of ambient lighting conditions

Prevents False Alarms Due

- Intelligent programming helps prevent false alarms due to high ambient temperatures or direct sunlight

Product Familiarization



Temperature Display

- Easy-to-read, clear and bright digital display shows the temperature value in real time

Visual Notification

- Green light for a normal temperature range of 95°F – 98.6°F (35°C-37°C)
- Red light for temperatures outside of the normal range of 95°F – 98.6°F (35°C-37°C)

Distance Sensor

- The infrared temperature sensor starts to work when a person or object gets to within approximately 7.9 inches (20cm)

Infrared Sensor

- Detects body temperature in real time when a forehead or wrist comes into range of the infrared sensor

Voice Alarm

- Voice alarm quickly states, “Your temperature is normal” when the sensor determines a normal temperature range of 95°F – 98.6°F (35°C-37°C)
- Voice alarm quickly states, “Please check again” when the sensor determines the temperature is outside the normal range of 95°F – 98.6°F (35°C-37°C)

Basic Operation

Startup

- Connect power
- Press the **POWER** button to start the system; the device will display 0

Shutdown

- Press the **POWER** button to power off the system

To view the version number of the program

- Press the **SELECT** button twice. The device displays the program version number
- Press the **SELECT** button again to return to the main screen

To check the device ID

- Press the **ADJUST** button twice and the device will display the program version number
- Press the **ADJUST** button again to return to the main screen

To clean the sensor

- Gently wipe the sensor with the microfiber cloth included with the Y-530
- ONLY use a microfiber cloth to clean the sensor

How to Change the Temperature Settings

These instructions show how to change the ambient and alarm temperature settings if necessary.

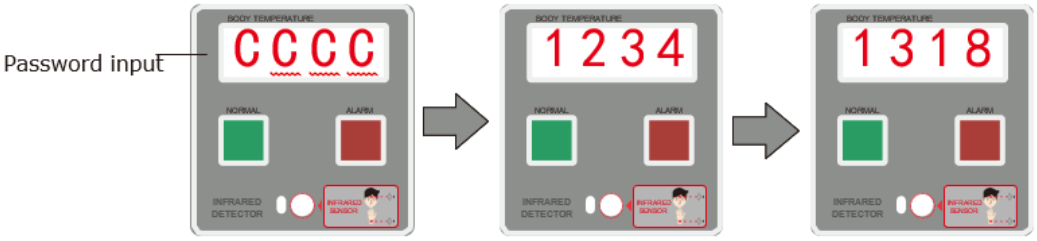
NOTE: All temperature settings are displayed in Celsius by default. The factory settings should work under most conditions and should not need to be changed.

Factory Settings

- Alarm temperature: 98.6°F (37°C). [3700 in the display denotes that the alarm temperature is 37°C]
- Ambient temperature: 77°F (25°C). [2500 in the display denotes that the alarm temperature is 25°C]
    - For every 10 degrees the ambient temperature setting is lowered, the body temperature setting drops 1°C
    - For every 10 degrees the ambient temperature setting is raised, the body temperature setting raises 0.5°C

To enter the device password

1. Press the **ENTER** button
2. Press the **SELECT** button to shift
3. Press the **ADJUSTABLE** button to adjust the number until it reads 1318

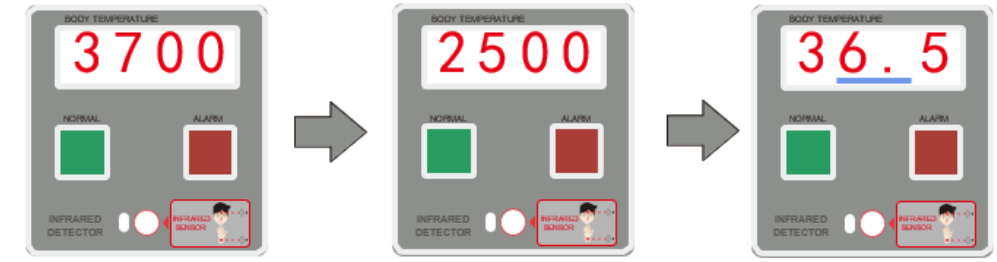


To change the temperature settings after entering the password

1. Press the **ENTER** button
2. Press the **SELECT** button to shift to the alarm or ambient temperature setting
3. After adjusting the setting, press the **ENTER** button to return to the main screen

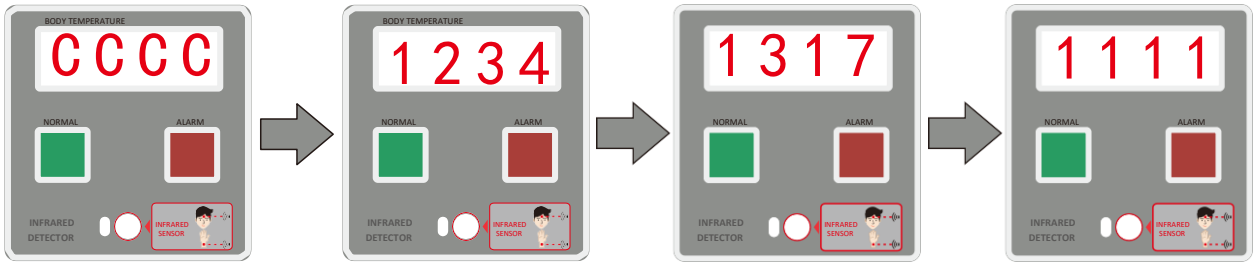
Alarm temperature setting

Ambient temperature compensation settings



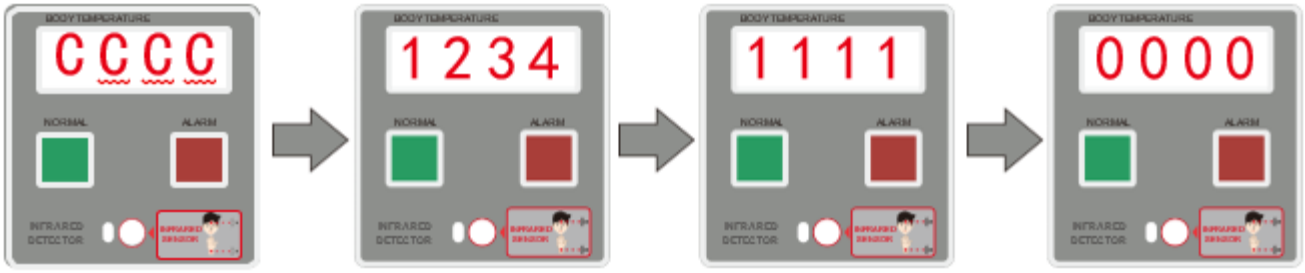
How to change the device language

1. Press the **ENTER** button
2. Press the **SELECT** button to shift
3. Press the **ADJUSTABLE** button to adjust the number
    a. For English, input the number 1317
    b. For Chinese, input the number 1316
4. The display shows the number 1111



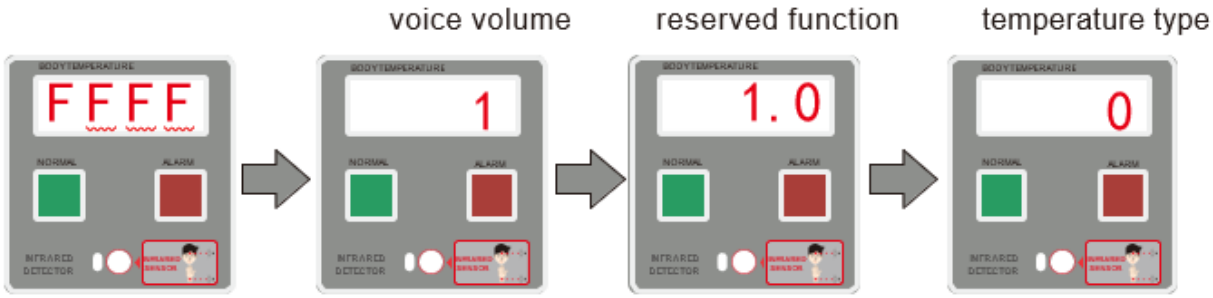
How to change the voice volume

1. Press the **ENTER** button
2. Press the **SELECT** button to shift
3. Press the **ADJUSTABLE** button to adjust the number
4. **Input** the number 1111
5. Press the **ENTER** button. The display shows 0000



Press the **CONFIRMATION** key and the display will show FFFF.

6. Press the **ADJUSTMENT** key to enter the volume setting screen
7. Press the **ADJUSTABLE** button to adjust the number
    a. Mute = 0
    b. Normal = 1
    c. Maximum = 3
8. Press the **SELECT** button to toggle between the temperature and the reserved function
    a. Reserved function = 1.0



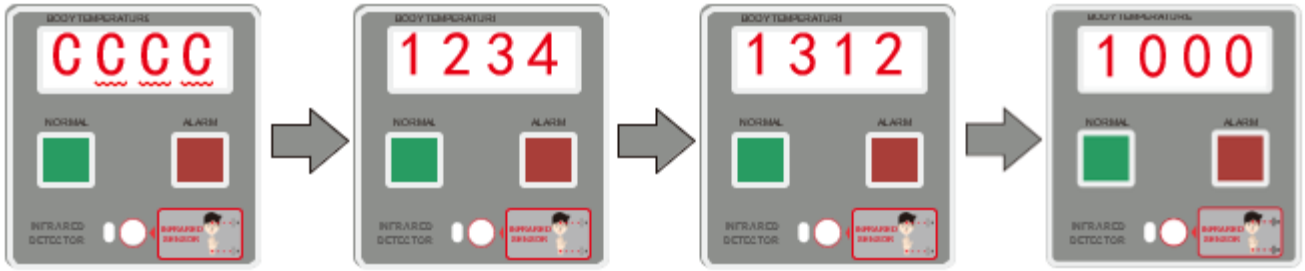
How to set an ID number

NOTE: Setting the ID number is only needed when adding the optional LAN network function.

1. Press the **ENTER** button
2. Press the **SELECT** button to shift
3. Press the **ADJUSTABLE** button to adjust the number
4. **Input** the number 1312
5. Press the **ENTER** button and the display will show 0000
    a. Now you can modify the ID number
6. Press the **ENTER** button twice to save and return to the main screen

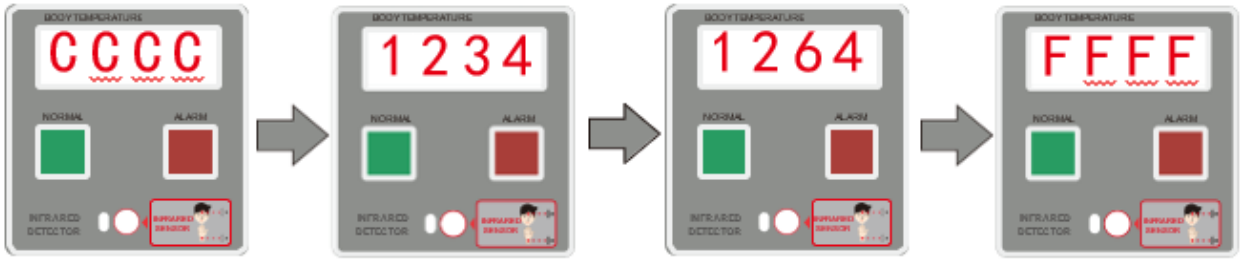
How to restore the factory settings

NOTE: The following settings are not included in the factory reset: **Temperature type** AND



Voice language and volume

1. Press the **ENTER** button
2. Press the **SELECT** button to shift
3. Press the **ADJUSTABLE** button to adjust the number
4. **Input** the number 1264
5. Press the **ENTER** button. The display shows FFFF to indicate factory settings have been restored
6. Press the **ENTER** button to return to the main screen



Installation Note

For best results, we recommend installing this equipment in an indoor area free from wind. A cold wind from outside might influence the temperature readings. We also recommend that the temperature measurement area is protected from bright sunlight to avoid false high results.

Temperature Detection Operational Notes

1. Normal ambient temperature is 32°F - 86°F [0°C - 30°C]. When using it at 14°F [-10°C], you may have to increase the environmental temperature compensation value
    a. Increase the value 5°C at a time, until the scanned result difference between it and the forehead thermometer is within plus or minus 0.3°C
    b. You can also use this method to calibrate the sensor if the scanned results of many persons are low
2. Measurement method: Measure the forehead or the wrist surface
3. The standard measurement distance is 0.4-4.0 IN [1cm-10cm]
4. The measurement time is 0.5 seconds. After the measurement, advise people to leave quickly. Otherwise the measurement may be repeated

Technical Specifications

Product weight: 1.3 lbs. [0.6kg]

Power consumption: <8W

Working temperature: 14°~ 104° F [-10°~40°C]

Operating humidity: 95% [non-condensing environment]

External power supply: AC 100-240V, 50 / 60Hz

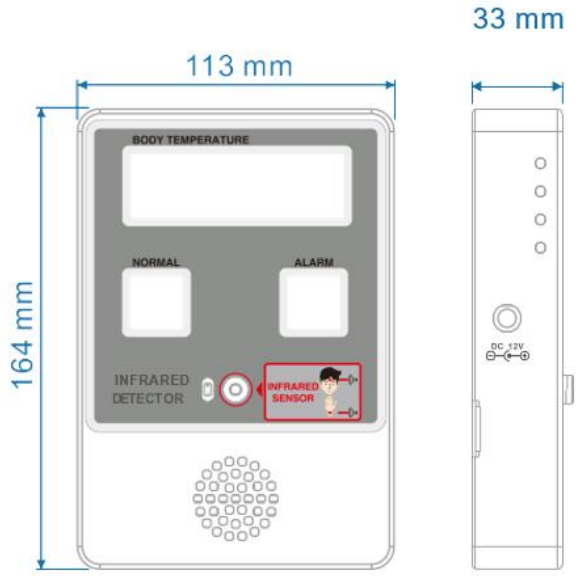
Working voltage: 12V

Temperature measurement speed: <1 second

Temperature measurement accuracy: ± 0.3

Temperature measurement distance: 0.4–7.9 in [1-20cm]

Product size: 6.5 X 4.4 X 1.3in [164 X 113 X 33mm] (excluding bracket and power adapter)



Disclaimer

The infrared temperature measuring device is the human body surface temperature screening instrument. The test results indicate the real-time temperature evaluation of objects or people in a specific environment. The selling company and the manufacturer shall not bear any responsibility for the direct or indirect loss caused by the use of these test results.

Technical Support

If you experience any issues, please send your email address and issue details to our technical support team at:

- Email: support@yatesprotect.com

We welcome your comments and suggestions on how to improve our products.