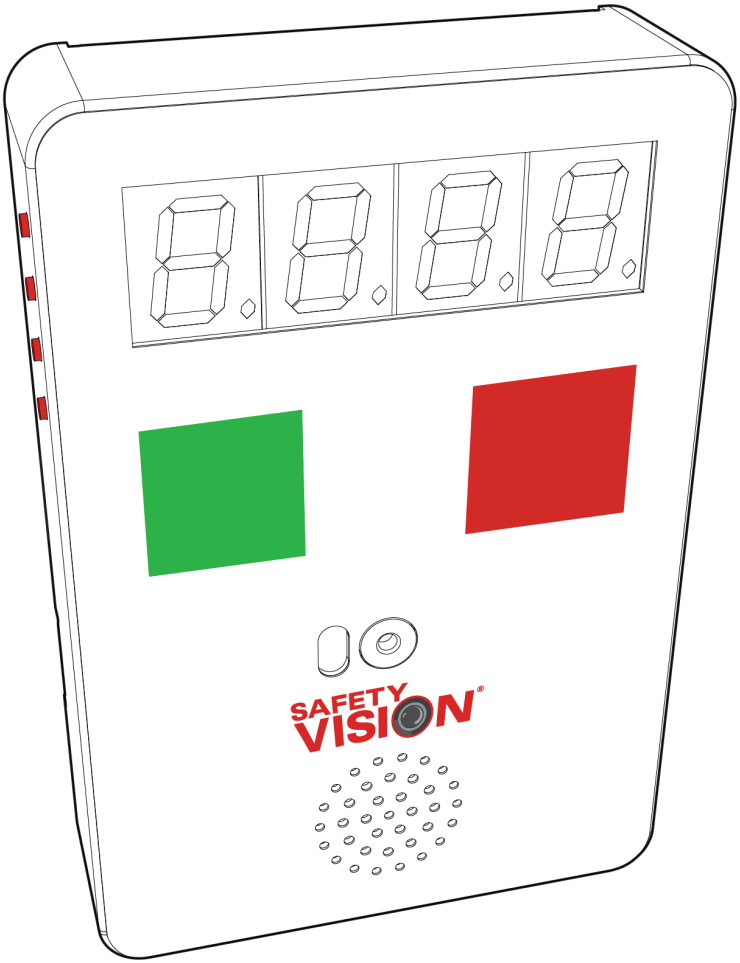

SV-IR-THRM
USER GUIDE

PATENT PENDING

SAFETY VISION®

Important Notices

Title: SV-IR-THRM User Guide

Document Version: 1

Revision: 1

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Contents

Overview

Features 3

Installation **4**

Horizontally Rotating Mounting Bracket 5

1-1/4" U-bracket 8

SV-LCD-RM1.0-4 9

SV-IR-THRM-BRKT 11

Components **14**

Operating the SV-IR-THRM

Start up 15

Shutdown 15

Display Version Number 15

Check the Device ID 15

Settings

Volume 17

Temperature Display Units 17

Not Used 17

Minimum Temperature Alert 17

Maximum Detection Distance 18

Minimum Detection Distance 18

Ambient Body 18

Indicator Light Length 18

ID Number 19

Restore Factory Settings 20

Thermo Detection Notes 20

Appendix A: Specifications 21

Appendix B: Dimensions 21

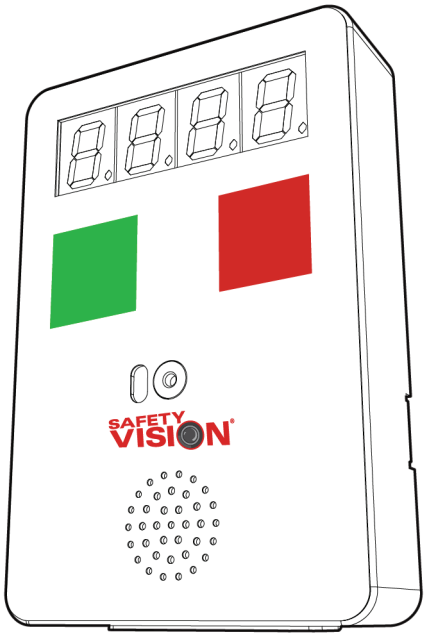
FCC Compliance Statement 22

Overview

Using a high-precision temperature measurement sensor imported from Belgium, the mini thermo detector measures the human body surface temperature without any contact. When an abnormal body temperature is detected, an audible voice warning will occur. This can be used as a stand-alone product or integrate with walk-through metal detectors, doors, intelligent access control systems, and more.

Features

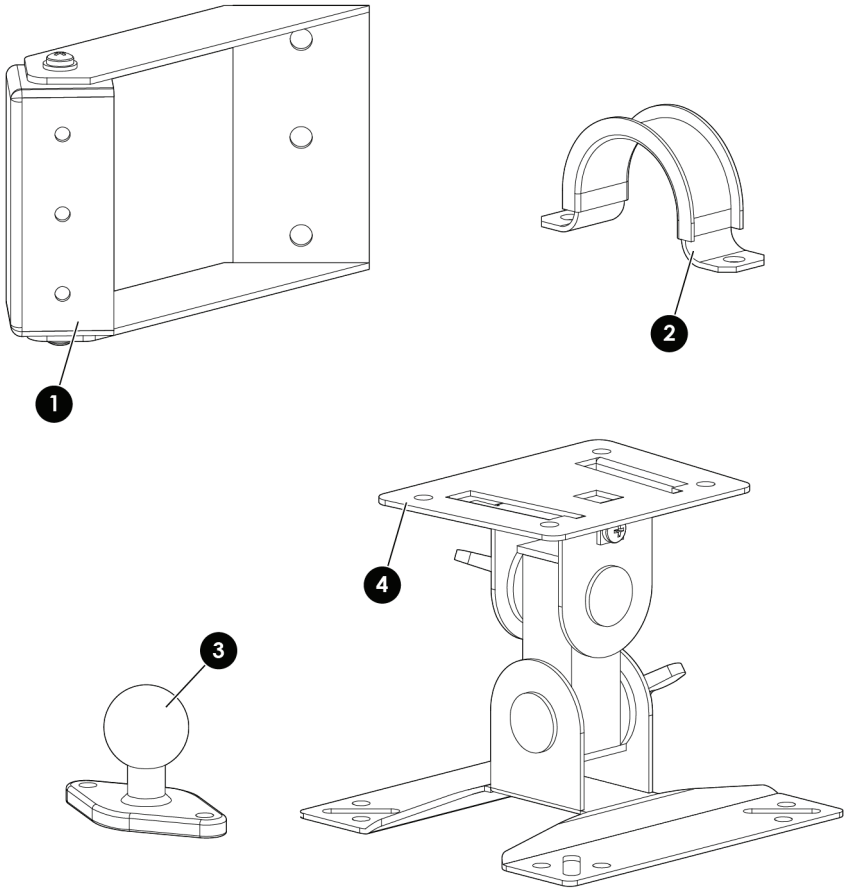
- **No contact temperature measurement:** The detector measures forehead or hand temperatures and is accurate up to 3 inches away.
- **Voice Alarm:** After passing the detector an audible voice will state “Your temperature is normal” for a normal body temperature or “Please check again” for an abnormal body temperature.
- **False Alarm Prevention:** Using advanced STM technology the possibility of false alarms is prevented.
- **Easy to use:** Just plug it in and it is ready to use.



Installation

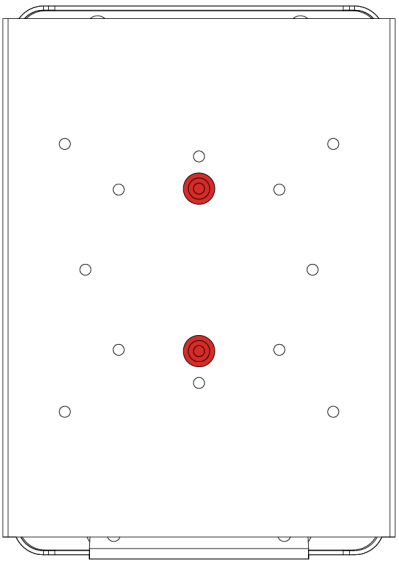
The SV-IR-THRM can be installed using any of four mounting brackets. Each bracket lines up with a specific hole pattern on the back of the thermometer. The types of mounting brackets are:

1. Horizontally rotating *(included)*
2. 1-1/4" U-bracket *(included)*
3. SV-LCD-RM1.0-4 *(diamond ball base shown) (optional)*
   ***NOTE:** Safety Vision part number SV-IR-THRM-SCRW is required for this installation.*
4. SV-IR-THRM-BRKT *(optional)*

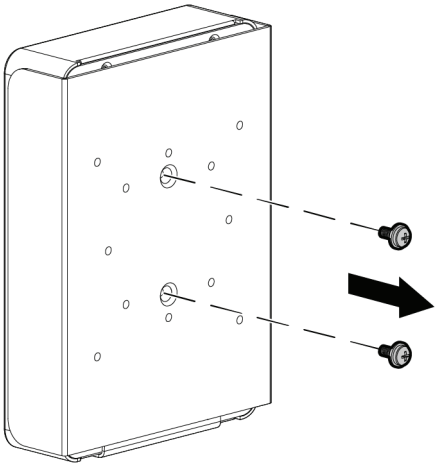


Horizontally Rotating Mounting Bracket

The horizontally rotating mounting bracket uses the holes indicated below on the back of the thermometer shroud.

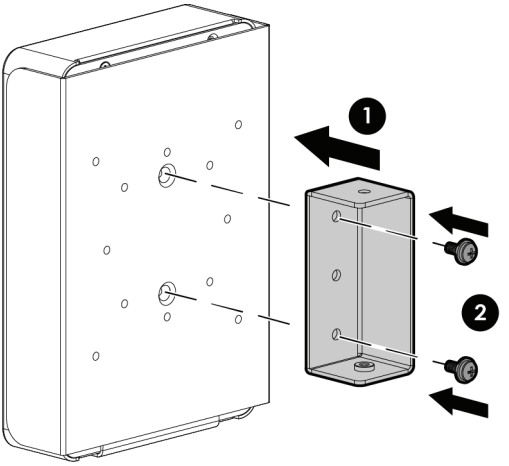


1. Remove the two *(2)* Phillps head screws that secure the shroud to the thermometer.

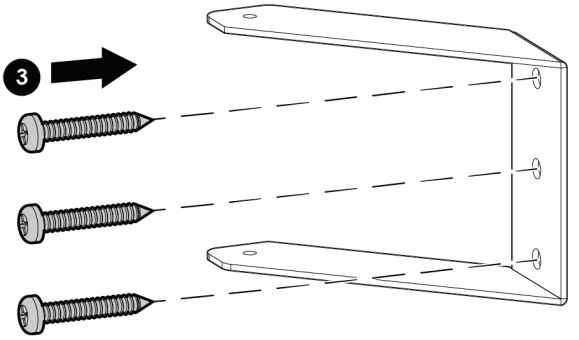


2. Line up the holes of the bracket to the center two holes *(shown on page 3)*.

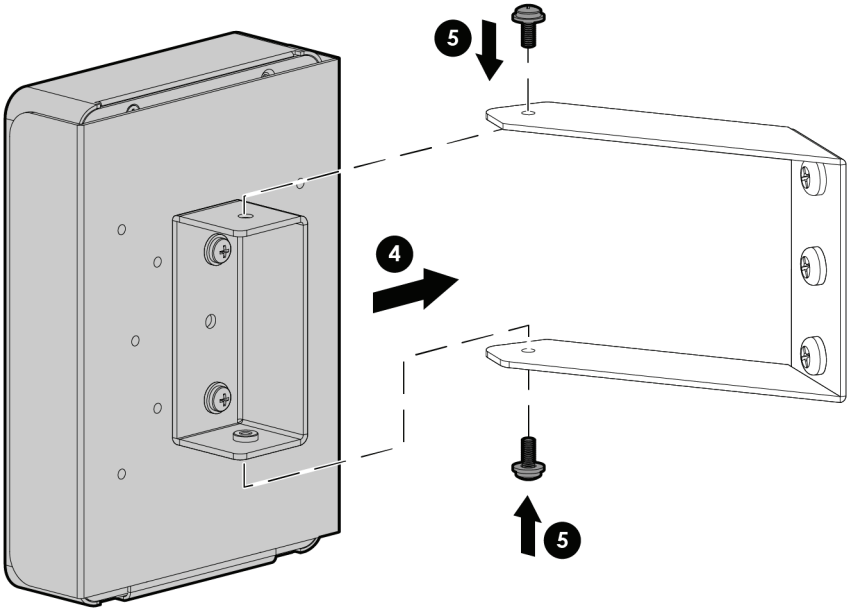
3. Using the two Phillips head screws *(removed in step 1)* to secure the bracket to the shroud.



4. Using the included three self-tapping screws *(and wall anchors if necessary)*, secure the bracket arm to the mounting surface.

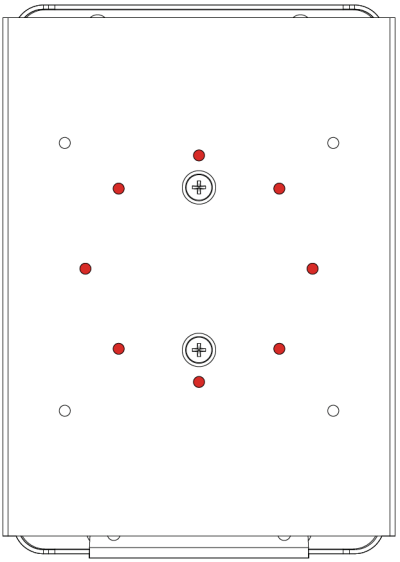


5. Slide the thermometer with attached bracket into the bracket arm and secure it in place with the included two Phillips head screws and washers.

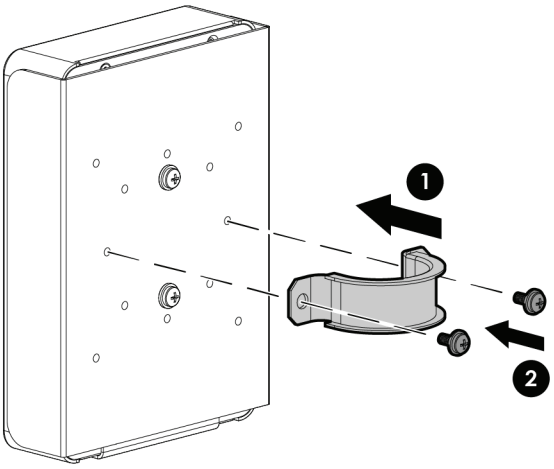


1-1/4" U-bracket

The 1-1/4" U-bracket uses any two holes shown below, on the back of the thermometer shroud, to mount the thermometer to a rail or pole.



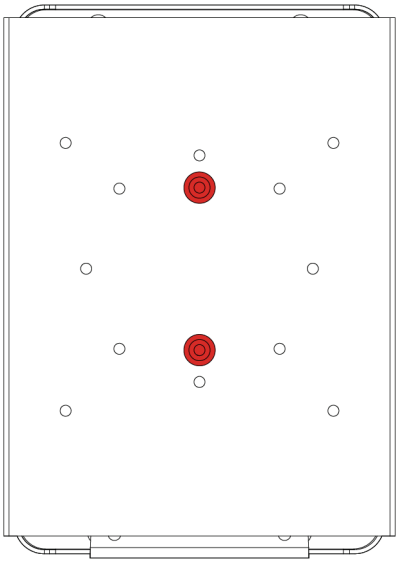
Using two of the included Phillips head screws, secure the U-bracket, around a railing or pole, to the thermometer shroud.



SV-LCD-RM1.0-4

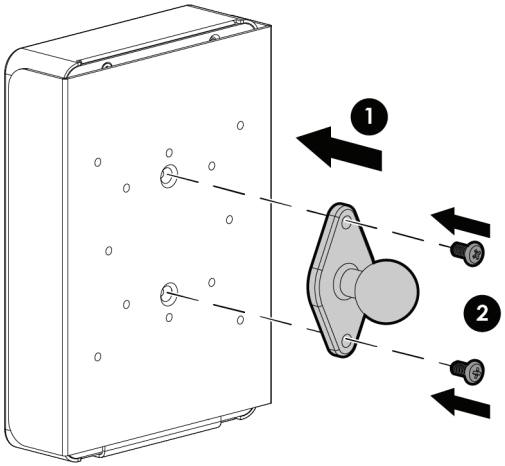
NOTE: *When installing the SV-LCD-RM1.0-4, it's necessary to use the included hardware kit SV-IR-THRM-SCRW.*

The SV-LCD-RM1.0-4 mount uses the indicated holes below on the back of the thermometer shroud.

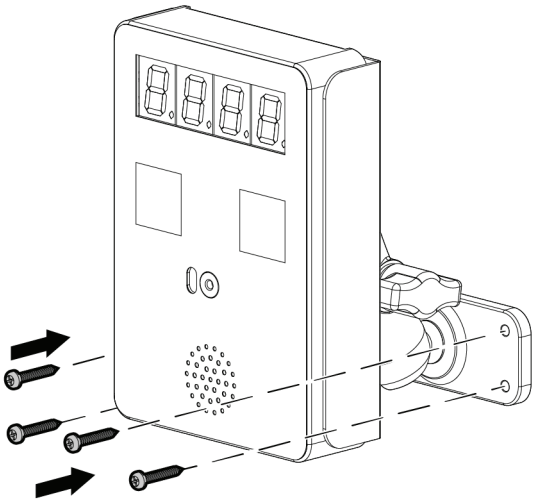


1. Remove the two *(2)* Phillps head screws that secure the shroud to the thermometer.

2. Line up the holes of the diamond ball base to the center two holes and use the 2 Phillips head screws included in SV-IR-THRM-SCRW to securely fasten the base to the thermometer.

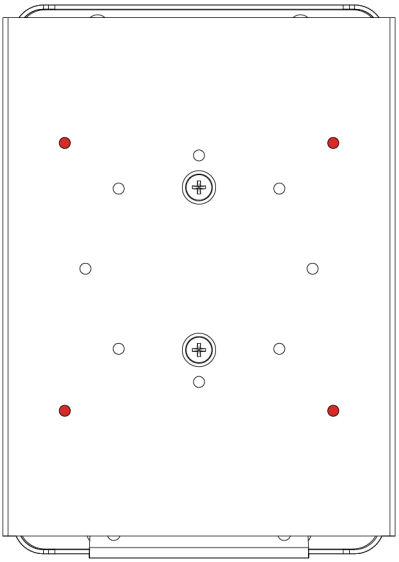


3. Using the four self-tapping screws *(and wall anchors if necessary)*, secure the bracket arm to the mounting surface.

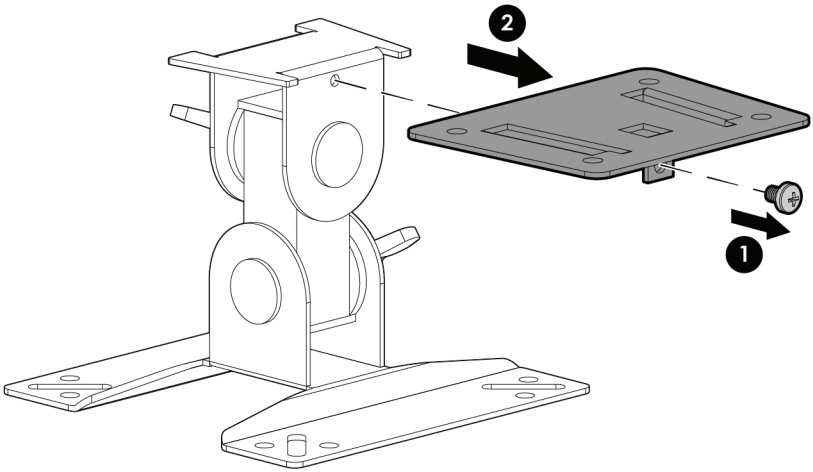


SV-IR-THRM-BRKT

The SV-IR-THRM-BRKT bracket uses the four outermost shown below, on the back of the thermometer shroud, to mount the thermometer to a rail or pole.

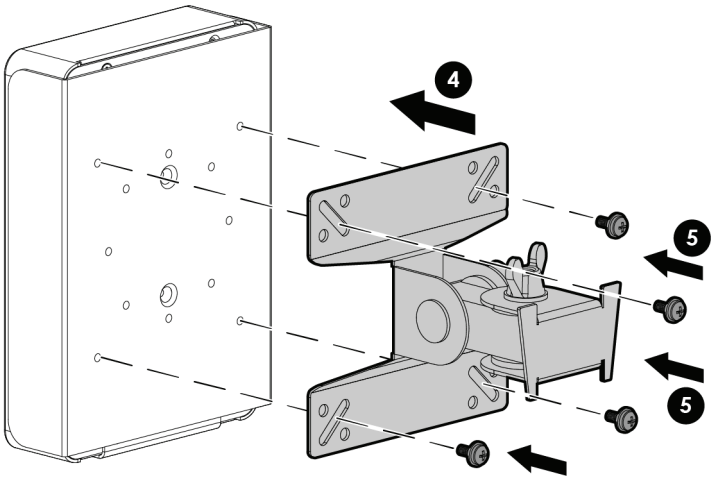


1. Remove the retaining screw and slide the mounting plate off.

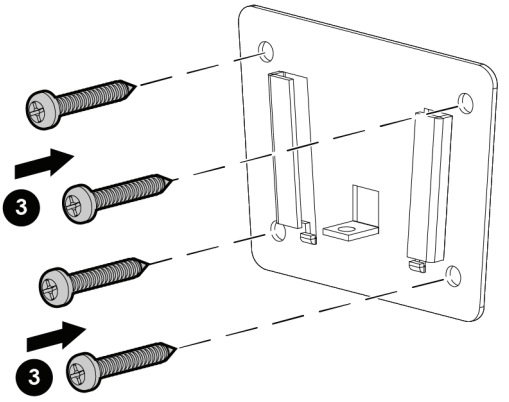


2. Align the diagonal slots of the bracket to the four outermost holes on the thermometer.

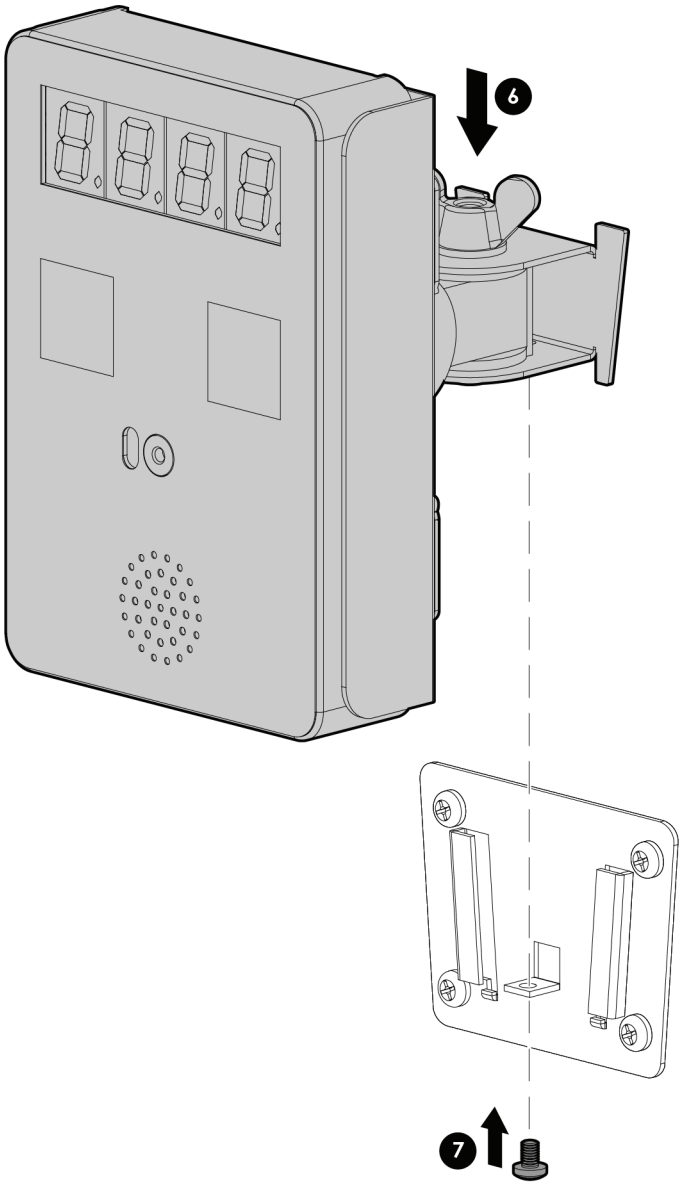
3. Using the four Phillips head screws *(wrapped in packing foam included in the box)*, securely fasten the bracket to the thermometer.



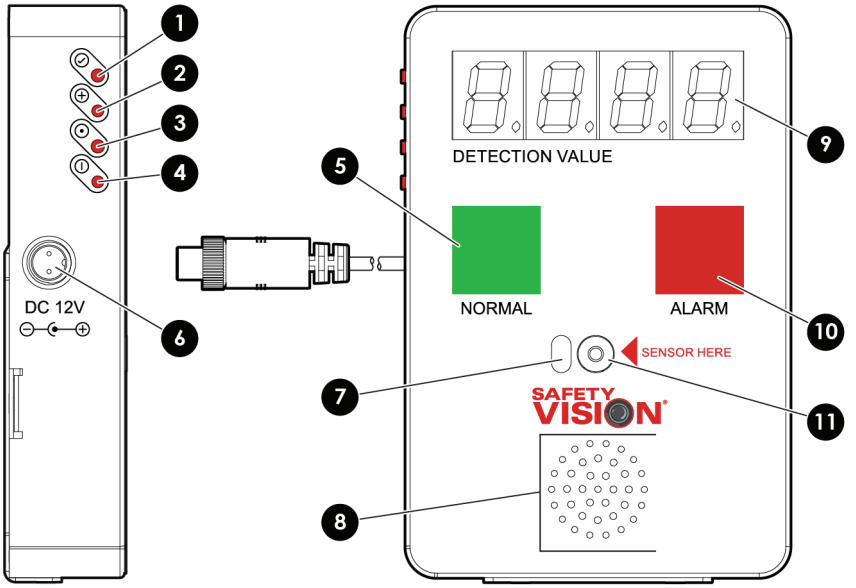
4. Using the included four self-tapping screws *(and wall anchors if necessary)*, secure the mounting plate to the mounting surface



5. Slide the thermometer with mounting bracket onto the mounting plate and replace the retaining screw. Loosen the wing nut on either side of the bracket to adjust the angle of the thermometer.



Components



1 Enter Button
- Press the **Enter** button to confirm selection.

2 Adjust Button
- When inputting a numerical value, press the **Adjust** button to change the value of numerical input.

3 Select Button
- When inputting a numerical value, press the Select button to move a space to the right.

4 Power Button *(disabled)*
- When connected to a power source the thermometer is always on.

5 Normal LED Indicator
- LED activates when detected temperature is within the 95° F - 100.4° F *(35° C - 38° C)* range.

6 Power Input

7 Distance Sensor

8 Speaker
- Verbal alarm when temperature is normal *("normal temperature")* or abnormal *("please check again")*.

9 Temperature Display

10 Abnormal LED Indicator
- LED activates when detected temperature is out of the 95° F - 100.4° F *(35° C - 38° C)* range.

11 Infrared Sensor

Operating the SV-IR-THRM

Start up

Connect the power supply and wait for the display to show **0**.

Shutdown

To shutdown the system, turn off power source or unplug power cable.

Display Version Number

Press the **Select** button twice and the version number will display, then press the **Select** button to return to the main interface.

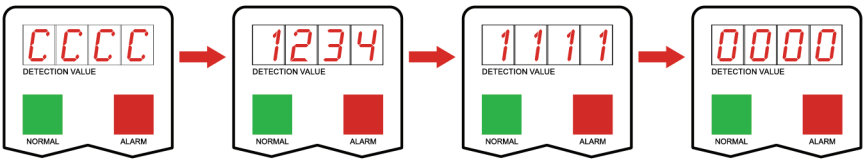
Check the Device ID

Press the **Adjust** button twice and the device ID will display, then press the **Adjust** button to return to the main interface.

Settings

Use the following steps to access the thermometer's settings:

1. Press the **Enter** button *(CCCC will appear on the display)*
2. Press the **Select** button once *(1234 will show on the display)*
3. Press the **Select** button once more, then use the **Adjust** and **Select** buttons to input the password **1111**.
   - Input the password by alternating between the **Adjust** button to change the numerical value of each space and the **Select** button to move spaces.
4. Press the **Enter** button twice *(0000 then FFFF will appear on the display)*



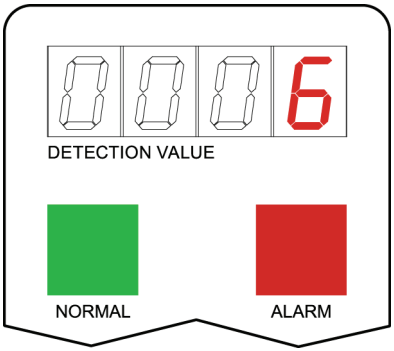
For example, to input the number **6100:**

1. Press the **Adjust** button 2 times to input "6".
2. Next to input "1", press the **Select** button to move the next space, then the **Adjust** button 2 times.
3. Press the **Select** button to move to the next space and the **Adjust** button 1 time to input "0".
4. Repeat step 3 once more for the last "0" and press the **Enter** button.

Press the **Enter** button at any time to return to the main interface or continue to press **Select** after each setting to continue to the next setting.

The settings are in the following order *(shown with the default and range values)*:

1 Volume

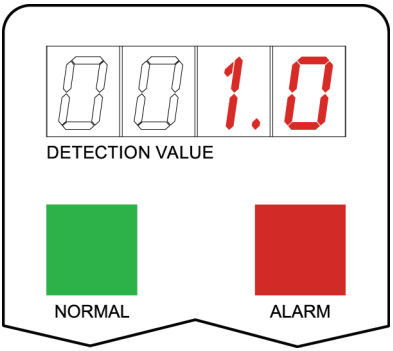


Default: 6

Range: (0 - 8)

Note: ***0*** *- mute,* ***8*** *- loudest.*

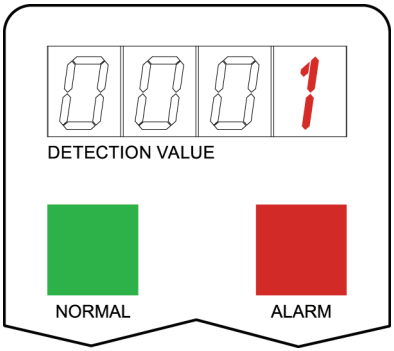
2 Not Used



Default: 1.0

Range: (1.0 - 7.0)

3 Temperature Display Units

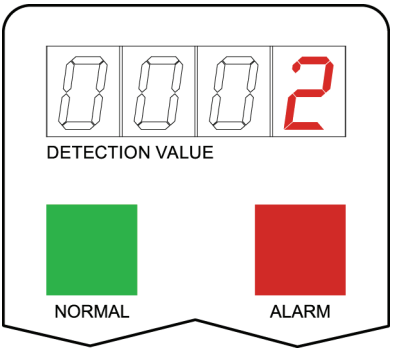


Default: 1

Range: (0 - 1)

Note: ***0*** *- Celcius,* ***1*** *- Fahrenheit*

4 Minimum Temperature Alert



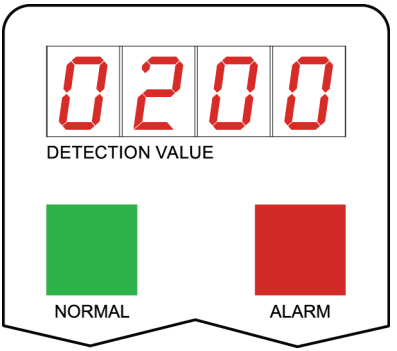
Default: 2

Range: (2 - 3)

Note: ***2*** *- alert sounds when temperatue is below set minimum,* ***3*** *- alert is muted*

(Settings cont.)

5 Maximum Detection Distance

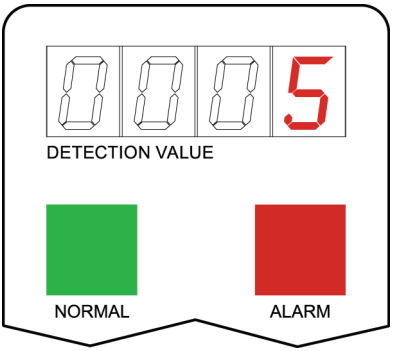


Default: 0200

Range: (0000 - 0400)

Note: *Maximum distance for temperature detection (in mm)*

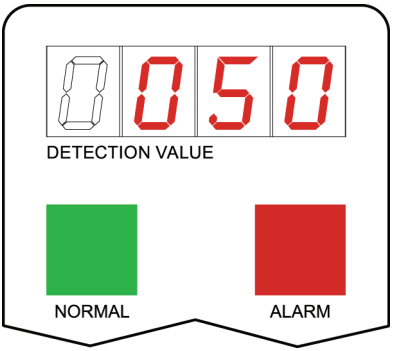
6 Ambient Body



Default: 5

Range: (5 - 6)

7 Minimum Detection Distance

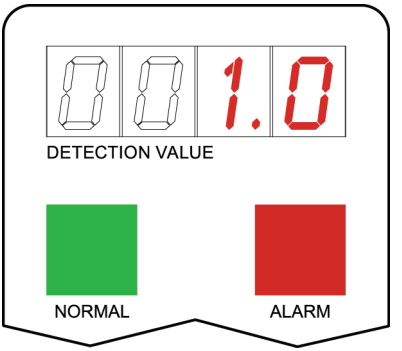


Default: 050

Range: (000 - 200)

Note: *Minimum distance for temperature detection (in mm)*

8 Indicator Light Length



Default: 1.0

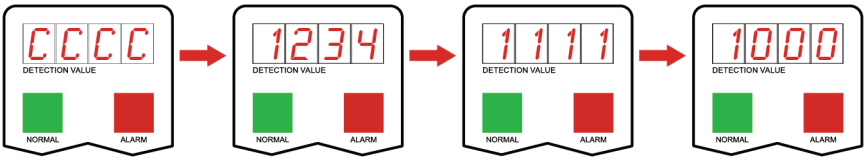
Range: (1.0 - 3.0)

Note: *Length of time, in seconds, the indicator light lasts*

ID Number

1. Press the **Enter** button *(CCCC will appear on the display)*
2. Press the **Select** button once *(1234 will show on the display)*
3. Press the **Select** button once more, then use the **Adjust** and **Select** buttons to input the password **1111**.
4. Press the **Enter** button twice *(0000 then FFFF will appear on the display)*
5. From here the ID number can be modified using the **Select** and **Adjust** buttons. Press the **Enter** button twice to save the ID number and return to the main interface.

NOTE: *You only need to set the ID number if you are adding the optional network (LAN) function.*

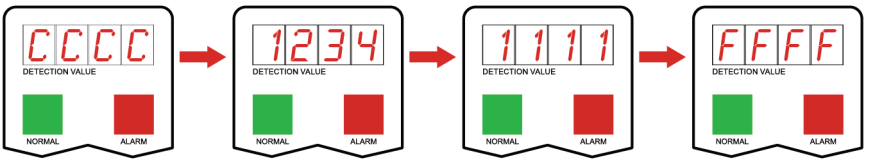


Restore Factory Settings

Use the following steps to restore the IR thermometer back to factory settings:

1. Press the **Enter** button *(CCCC will appear on the display)*
2. Press the **Select** button once *(1234 will show on the display)*
3. Press the **Select** button once more, then use the **Adjust** and **Select** buttons to input the password **1111**.
4. Press the **Enter** button twice *(0000 then FFFF will appear on the display)*
5. Press **Enter** once more to restore factory settings.

NOTE: *The temperature unit and voice volume is not included in the factory reset parameters.*



Thermo Detection Notes

1. The best measurement distance is .393 ~ 3 inches.
2. The measurement time is 0.5 seconds. To avoid repetitive measurement, please move forehead or hand away immediately after detection.
3. The measurement accuracy is ±0.3°.
4. Wind and sunshine can interfere with the thermo detection.

Appendix A: Specifications

PART NUMBER
SV-IR-THRM

TEMPERATURE MEASUREMENT SPEED
Less than 1 second

TEMPERATURE MEASUREMENT ACCURACY
± 0.3°

TEMPERATURE MEASUREMENT DISTANCE
<3in *(<76.2mm)*

POWER CONSUMPTION
Less than 8W

EXTERNAL POWER SUPPLY
(FOR FIXED APPLICATIONS ONLY)
120V AC converter

WORKING VOLTAGE
12V

WORKING TEMPERATURE
-14° F ~ 104° F *(-10°C ~ 40°C)*

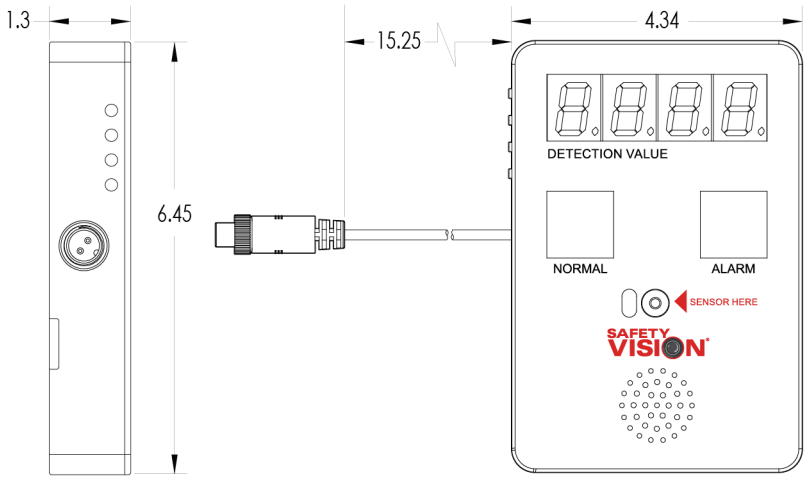
OPERATING HUMIDITY
95%, non-condensing

DIMENSIONS (W × H × D)
4.34 × 6.45 × 1.3in *(110.24 × 164 × 33mm)*
(excluding bracket and power adapter)

WEIGHT
1.32lb *(0.6kg)*

CERTIFICATIONS
CE, FCC, ROHS

Appendix B: Dimensions



FCC Compliance Statement

This device has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference in which case the user will be required to correct the interference at is own expense.

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for the compliance could void the user's authority to operate the equipment.

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