

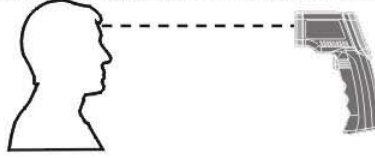
## Human Flu Thermometer Instruction manual



Version: SZ110-1

### Introduction

Thank you for choosing Af110 non-contact infrared thermometer. Af110 is special design for measurement forehead temperature, provide quick and accurate testing. Build-in environment temperature compensation and self-detection, without contact, ear-cap, no more ear canal cross infection.



### How it works

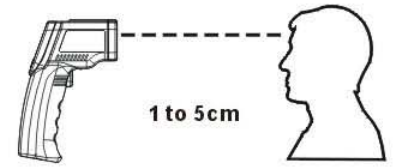
Infrared thermometer measures the surface temperature of human body. The unit's optics sense emitted, reflected, and transmitted energy which is collect and focused onto a detector. The unit's electronics translate the information into a temperature reading which is displayed on the unit.

### Cautions

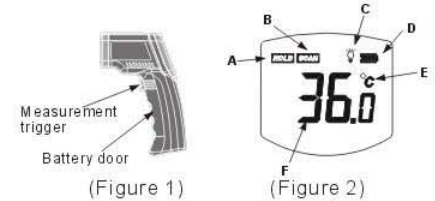
- Infrared thermometer should be protected for the following:
  - EMF (electro-magnetic fields) from arc welders, induction heaters.
  - Thermal shock (cause by large or abrupt ambient temperature changes allow 30 minutes for unit to stabilize before use).
  - Do not leave the unit on or near objects of high temperature.

1. When take measurement, point thermometer toward the forehead to be measured and hold the trigger, the closer distance the more precision will be obtained..

2. Detection distance: 1 to 5 cm with the forehead is more accurate.



### Quick start instruction

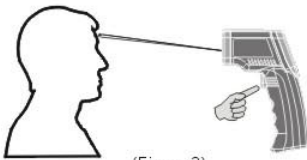


1. Open battery door and install 9V battery properly, when pull the trigger and LCD display battery power and temperature reading (as figure 2), the reading will hold for 7 seconds.

### LCD display:

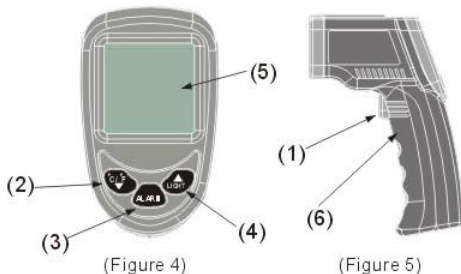
- A. Data(reading) hold icon
- B. Scanning icon
- C. Back light icon
- D. Battery power icon

- E. Temperature unit
- F. Temperature reading



(Figure 3)

2. Fixed point measurement: Pull the trigger and aim the thermometer to forehead for measurement(as figure 3).



(Figure 4)

(Figure 5)

### 3. Unit diagram description

- (1) Measurement trigger: When pulling the trigger LCD display temperature reading with SCAN icon. Release trigger, reading display with HOLD icon. Built-in auto power off in 20 seconds.
- (2) Celsius and Fahrenheit selection and down adjust button.
- (3) ALARM: Temperature Alarm setting button

- (4) Back-light On/Off and up adjust button
- (5) LCD display(show as figure 2)
- (6) Battery door

### 4. Operation instruction:

- (a) The measurement range is 30 to 45°C, when less than 30°C, LCD display **LO**, when over 45°C LCD display **HI** symbol.

- (b) Install 9V battery correctly, then close battery door, pull the trigger to turn on. LCD display reading with SCAN icon(every measurement will takes 1 to 2 seconds), after release the trigger then the reading will be hold.

### (c)ALARM temperature setting:

Press ALARM button, **A** icon will blinking on the LCD, press **▲** or **▼** to adjust the alarm temperature, and press ALARM button to save and exit. When the temperature reading over the setting, the unit will alarming with Bi, Bi audio sounds.

- (d) Temperature unit selection: In normal status, the default unit is Celsius, press °C/°F button will turn into Fahrenheit.

- (f) The default setting is back light off, press LIGHT button will turn on the back light.

- (g) The thermometer will auto power off in 20 seconds without any operations.

- (H) Using life: Over hundred thousand times in normal measurement.

### Maintenance

- 1) Lens cleaning: Blow off lose particles using clean compressed air. Gently brush remaining debris away with a moist cotton cloth.

- 2) Case cleaning: Clean the case with a damp sponge/cloth and mild soap.

### Note:

- 1) Do not use solvent to clean lens.
- 2) Do not submerge the unit in water
- 3) This products is only used for measure human body's temperature by test the people's forehead..

Specification	
Temperature Range	30 to 45°C (86°F to 113°F)
Accuracy	±0.3°C(testing environment temperature 23°C ±3°C)
Emissivity	0.95 pre-set
Repeatability	1% of reading or 0.1°C
Response time	1 to 2 seconds
Spectral reponse	8-14 um
Resolution	0.1°C
Ambient operation range	0 to 40°C (32 to 104°F)
Relative humidity	10-95% RH non-condensing, @ up to 30°C (86°F)
Storage temperature	-20 to 60°C (-4 to 140°F) without battery
Weight/Dimension	130g; 146 x 80 x 38mm
Power supply	9V Alkaline or NiCd battery
Battery life(alkaline)	12 hours
Distance to spot size	12:1