SMART SENSOR®

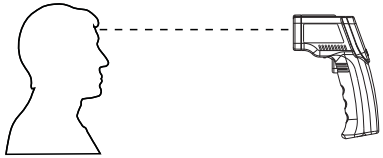
MODEL: AF110A

Human Flu Thermometer
Instruction manual

Version: SZ110A-1-02

Introduction

Thank you for choosing AF110A non-contact Human flu infrared thermometer. AF110A is special design for measurement Human flu 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 measure the surface temperature of human body. The units optical system sense the object's emitted energy with different wavelength. It is collected and focus onto a detector. The unit's electronics system translated the information into a temperature reading which is displayed on the unit.

Cautions

Infrared thermometer should be protected for the following:

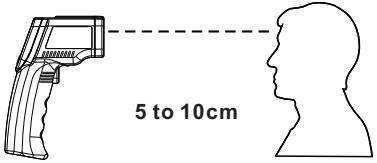
--EMF (electro-magnetic fields) from arc welders, induction heaters.

--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.

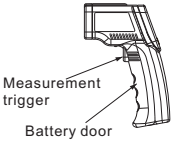
1. When take measurement, point thermometer toward the forehead to be measured and hold the trigger key, the closer distance the more precision will be obtained..

2. Detection distance: 5 to 10 cm with the Human flu forehead is more accurate.

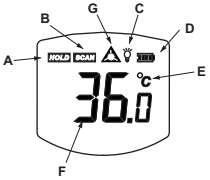


3. Not recommended use this unit at direct sunlight or near a strong wind.
4. When forehead is wetting, please make it dry, then take measure again.
5. When environment temperature changed, please keep the unit under this environment more than 20 minute, then take measure again.

Quick start instruction



(Figure 1)



(Figure 2)

1. Open battery door and install 2*AAA battery properly, when pull the trigger and LCD display battery power and temperature reading (as figure 2), the reading will hold for 10 seconds.

LCD display:

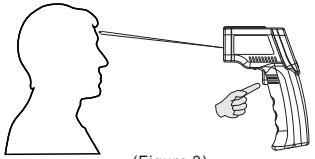
A. Data(reading) hold icon

B. Scanning icon

C. Indicator lamp light icon

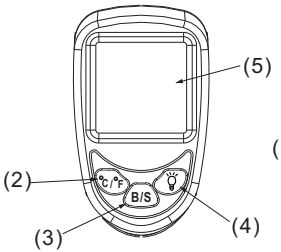
D. Battery power icon

E. Temperature unit
F. Temperature reading
G. Body surface measurements icon

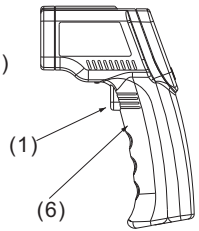


(Figure 3)

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 SCAN icon and temperature reading , At the same time with HOLD icon. Every time pulling the trigger obtain a data.
Built-in auto power off in 10 seconds.
(2) Celsius and Fahrenheit selection and down adjust button.
(3) B/S: body inside / body surface 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)Body inside: 30 to 45℃ (86 ℉ to 113 ℉)
Body surface: 25 to 60℃ (77 ℉ to 140 ℉)
(b)Install 2*1.5V AAA 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)Temperature unit selection: In normal status, the default unit is Celsius, press ℃/℉ button will turn into Fahrenheit.
(d) The default setting is back light off, press button will turn on the back light.
(e) The default measurements is body inside measurements, Hold down B/S button and then well switching to body surface measurements. LCD display , Without it, express body surface measurements.
(f) The thermometer will auto power off in 20 seconds without any operations.
(g) 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 forhead..

Specification	
Temperature Range	Body inside: 30 to 45℃ (86 ℉ to 113 ℉) when less than 30℃, display "LO" when over 45℃, display " HI " Body surface: 25 to 60℃ (77 ℉ to 140 ℉)
Accuracy	±0.2℃(testing environment temperature23℃ ±3℃)
Emissivity	0.95 pre-set
Repeatablility	±0.1℃
Response time	1 sec
Resolution	0.1℃
Ambient operation range	0 to 40℃ (32 to 104℉)
Relative humidity	10-95% RH non-condensing, @ up to 30℃(86℉)
Storage temperature	-20 to 60℃ (-4 to 140℉) without battery
Weight/Dimension	130g; 146 x 80 x 38mm
Power supply	2*1.5V AAAbattery
Battery life(alkaline)	12 hours

IntelliSafe CE