

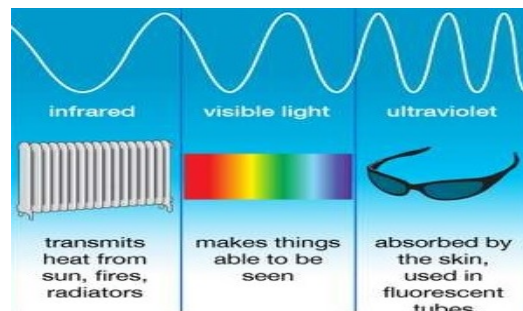
Non-contact clinical thermometer_AT-100M

(= thermometer for measuring the temperature of your face)



- It automatically measures the temperature of the face **at a distance of 30-45 centimetres**.
- An image of a person on the surface of a screen (= **mirror**) is seen and **any information about the person is not stored** except his/her temperature in order to **respect his/her privacy**.
- A body temperature range of **34-42 °C** is **measured** and an **announcement** (= temperature is high) is **made** when the temperature is **over 37.5 °C**.
- The thermometer **stands on the tables** or is **hold by** an officially used **stand**.

- The **human body sends out** energy in the form of **heat** as waves (= pattern in which some types of energy such as light and heat are spread or carried) that you cannot see (= infrared radiation). **Infra-red waves** are longer than those of red light in the spectrum (= band of coloured lights in order of their wavelengths, as seen in a rainbow and into which light may be separated).



- When the **temperature of your body rises**, the amount of **infra-red radiation** (= heat that is sent out in the form of waves) **increases** and you feel warm.
- **64** (= 8 multiplied by 8) **thermopiles** (= equipment consisting of thermocouples arranged for measuring small quantities of radiant heat) arranged in lines across and down (= **array**) are put into this non-contact infra-red (= 'below' red in Latin) thermometer, so that the presence of **heat produced by the 64 parts of your face is discovered**.

In consequence, **data that is collected by the 64 sensors** (= thermometers) is **dealt with** using a highly sophisticated (= very well designed and very advanced, and often works in a complicated way) system and **reasonably accurate temperature** is **shown** on the screen.

- The new invention was given a **patent** (= official right to make, use or sell an invention) by the Patent Offices in Korea, the USA, Europe and Japan.

Moreover, the non-contact infra-red thermometer was given '**Emergency Use Authorization**' from the Food and Drug Administration in the US as well as being **recognized as a medical device** by a government organization in Korea.