Product concept, Design, Development, and Production **IN INDIA**

AVATAR THERMAL EYE

FULLY AUTOMATED MEDICAL GRADE NON-CONTACT TEMPERATURE SCANNER

Avatar Renewables (P) Ltd

(Incubated in Maker Village / Kerala Start Up Mission)

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Project funded by **Nidhi Prayas** grant from DST, GOI through **SCTIMST-TIMed**

NIDHI PRAYAS | TIMed | Maker Village | KERALA STARTUP MISSION | MAKE IN INDIA

Designed & Manufactured in India

A Patent Pending Product

Human Body Temperature Sensing

- Automatic compensation for any ambient temperature variation
- Direct measurement

Key Features of Avatar Thermal Eye

1. Intelligent identification of thermal points to avoid human error
2. Automated scanning to prevent human contact during contagious disease spread
3. Accuracy of +/- 0.2 degrees Celsius to reduce false positive/negative cases
4. Industrial Quality Mechanical and Electronic components
5. Medical grade sensors
6. Falls well within FDA recommendations of accuracy of +/- 0.5 degrees(accuracy of +/-0. 2 degrees for Avatar Thermal Eye

Meets FDA Recommendations

FDA recommends accuracy levels of **<=+/-0.5°C**

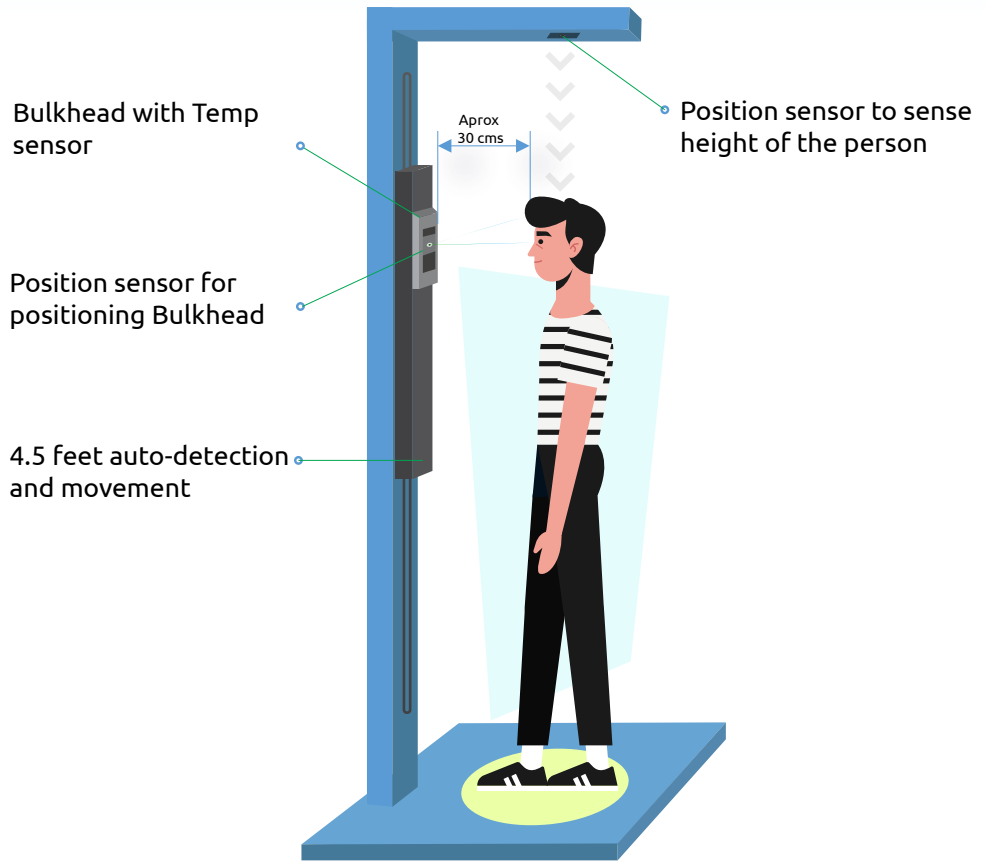
Avatar Thermal Eye uses medical grade sensors with an accuracy of **+/-0.2°C**

Avatar Thermal Eye uses Thermopile instead of Micro Bolometer

5°
FOV

12 POINT facial scan
(12 points ensure the eye-canthus region)

500
Individuals can be scanned in an hour
(2000 with four stations)



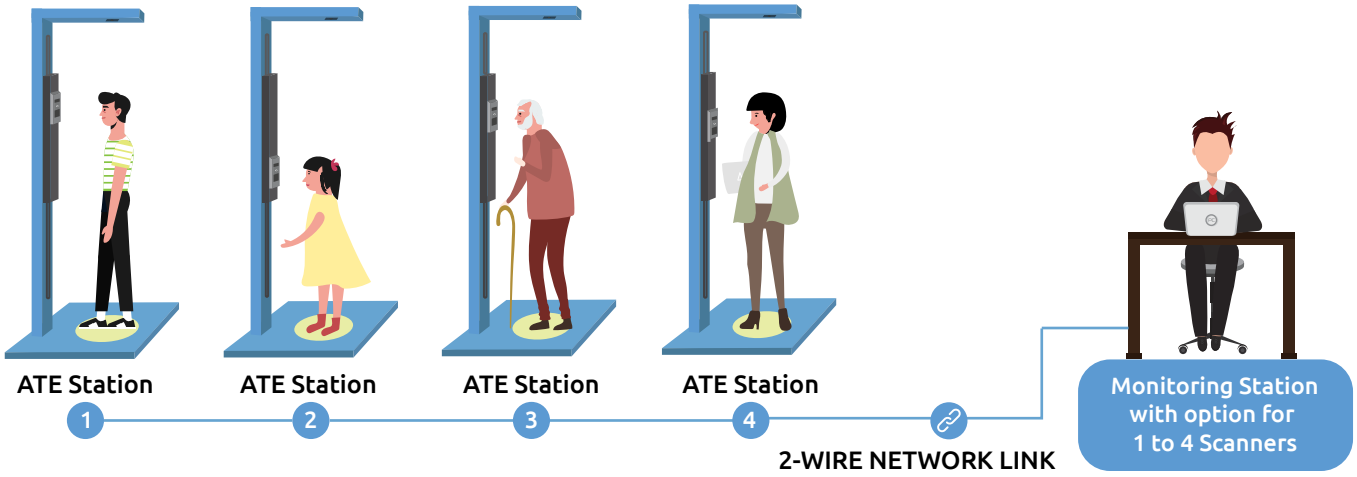
Components of the Automated ATE Station

Avatar Thermal Eye (ATE STATION)

Key Advantages of Avatar Thermal Eye

- 12 Point forehead-eye Temperature Scanning
- Nil Human Error
- False Positive/Negative case reduction
- Automated Intelligent Scanner
- Direct temperature measurement
- Medical grade Temperature Sensor

+/-0.2 °C Accuracy



- Data storage with time-stamp without personal data such as pictures, names, DOB etc
- Elevated Body Temperature based on static and dynamic thresholds
- Up to 1km total network connectivity

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