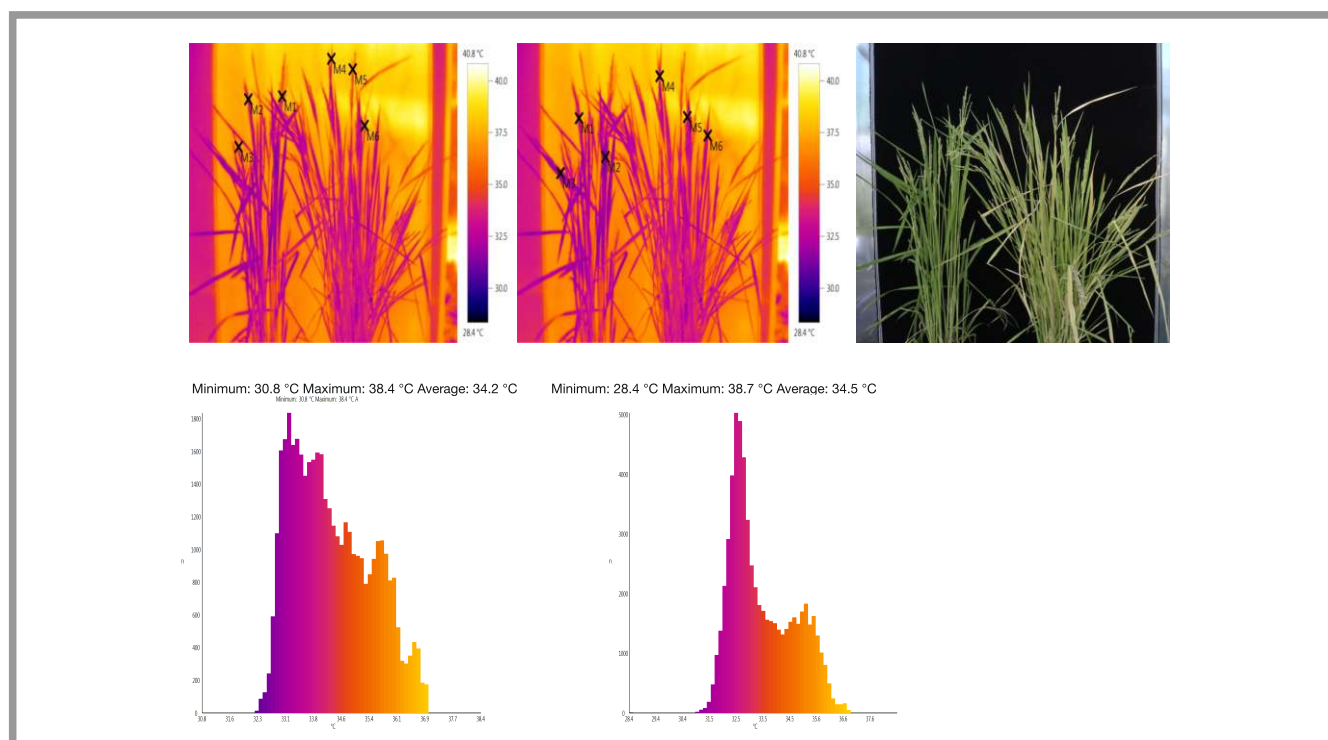


Thermal Imager – a valuable tool for the study of Plant Physiology & Agriculture



Thermal cameras are devices that translate thermal energy (heat) into visible light to analyze an object or scene. They usually detect radiation in the long-infrared range of the electromagnetic spectrum emitted by all the bodies and produce images of that radiation. Principle of working for these instruments is very simple and well known to the industry and so are the end applications where the thermal imagers are used. Thermal imagers are mostly used for predictive and preventive maintenance in Mechanical & Electrical applications, defect detection in components, switch yards & transmission lines, medical applications etc.

Our high end Thermal Imager Testo 890 has some distinct applications even in the field of Plant Physiology & Agriculture:

- Stress level measurement of crops
- Plant growth monitoring with respect to temperature
- Seed Viability Analysis
- Mapping of water requirements & water potential in irrigation systems

Testo Thermal Imagers – Best suited for R&D in Plant Physiology

Recently Testo India got an opportunity to associate with the Indian Agricultural Research Institute (IARI), which is India's national Institute for agricultural research and assisted them in a very unique application of R&D in Plant Physiology and Agriculture. **IARI's principal scientist Dr. Anjali Anand, Division of Plant Physiology** who uses testo 890 for seed viability analysis, took her precious time out to share her feedback and observations with us.

Application, Product selection & its advantages

Dr. Anjali Anand told us that she had a very clear application of IR thermography for seed viability analysis wherein the growth of the plant and its response to temperature could be determined. To attend this application, testo 890 was procured which was very helpful for them. She mentions, "I am very satisfied with the Testo Thermal Imagers and the excellent product feature that I experienced is that we can take laser guided images of precise area of seed." Testo Thermal Imagers also provide excellent temperature measurement accuracy and more precise analysis with the Lab view interface & vision software.

These advantages make testo 885/ testo 890 the winner for Research and Development:

- Recognize more, thanks to excellent temperature measurement accuracy
- Detailed analysis, thanks to a minimum focus distance of 10 cm
- Highest resolution with testo Super Resolution patented technology
- More precise analysis, with the LabVIEW interface with Vision software

Appreciations & Future expectations

Dr. Anjali appreciates the feature of super resolution in our cameras that provides highest resolution of the subject under observation. She also states that our Imagers can play a vital role in other research advancements in the field of plant biology. She further informs us, "we have been using Thermal

Imagers for 2 years now and Testo Thermal Imagers satisfy the application completely. In the coming future we would also like to utilize the video recording feature of the Thermal imagers to ensure real time recording of data at different intervals of time during plant growth."

Testo India takes immense pleasure in associating with an organization that has revolutionized the research & development sector for plant physiology and agriculture. The research leading to the "Green Revolution in India" germinated from this very institute & Testo India is very proud to offer testo 890 as a solution to such an esteemed institute for one of their applications.

Good wishes from **Testo India**,

Your Partner for **Thermographic study - testo 890**



testo 890

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