

How to achieve 900 temperature checks per hour:

4 easy steps to creating an FDA compliant mobile workstation.

1 CASE STUDY

A large private university in California was faced with implementing FDA protocols to ensure the safety of its students, faculty, staff and visitors while on campus as a result of the COVID-19 pandemic. One safety protocol, temperature checks, did not have a turnkey solution. How does a large institution take the individual temperatures of large numbers of people quickly, accurately and securely without disrupting schedules or creating long queues?

The answer: create a mobile, efficient workstation which contained a thermography camera, computer, external monitor and battery backup unit.

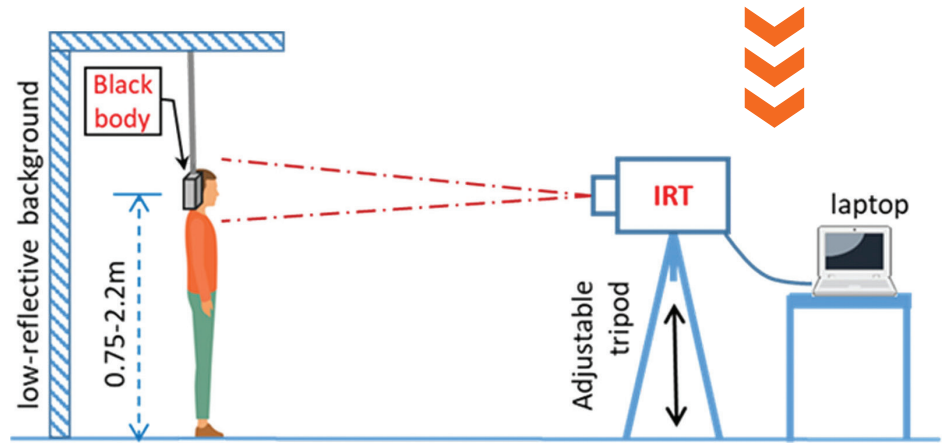
2 SPECIFIC REQUIREMENTS:

- › It needs to be mobile yet secure so the expensive optical equipment would not be at risk of theft
- › The ability to be moved and stored without disassembly
- › Mount an external monitor with swivel capabilities
- › Mount a thermography camera to meet operational requirements as specified by the FDA

3 PROBLEM:

FDA SUGGESTED THERMAL IMAGING SETUP

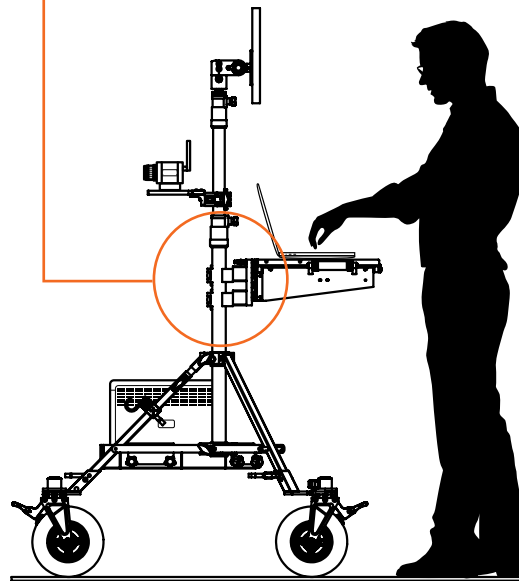
The optimal setup for large group temperature checks utilizes multiple components from various manufacturers, each requiring different mounting methods, resulting in a work area which is not mobile, secure, compact or efficient in setting up and breaking down.



- CAMERA
- TRIPOD
- COMPUTER
- WORSURFACE
- EXTERNAL MONITOR
- BATTERY BACKUP
- MOBILE

4 THE SOLUTION: INOVATIV CUSTOM TURNKEY WORKSTATION

Collaborating with the university to identify the various components and requirements, INOVATIV created an all-in-one solution on which all the necessary components are mounted, powered, moved and secured in a single, compact workstation.



- ✓ Meets FDA guidelines for proper temperature checks
- ✓ Testing capability of up to 900 people per hour per workstation
- ✓ Features mobility, security, ease of use and contained in one workstation
- ✓ Compatible and functional with various components
- ✓ Requires a technician to operate

Identifying the Components

After researching the FDA requirements for properly implementing temperature checks of individuals, especially in large group environments, the university chose the FLIR A700 Thermal Smart Sensor Camera System, with the ability to test up to 900 people per hour. This system consists of a camera, a laptop to run the software and the addition of an external monitor mounted near the laptop. The investment into the delicate electronic components required a solid and safe mounting solution to protect them from being stolen, easily bumped, tipped over or damaged.

The camera system requires 30 minutes to reach a stable operational status. The addition of the CyberPower CP1500PFCLCD PFC Sinewave UPS backup allowed the system to be started before being moved into position or moving to an alternate position, if required, without any downtime during relocation. This component also provides continued power to the system in the event that the main power source fails or is disrupted.

With the temperature check system components selected, INOVATIV partnered with the university and selected the AXIS Base Station to create the elegant, mobile, and secure turnkey solution they needed.

Creating the Workstation Solution

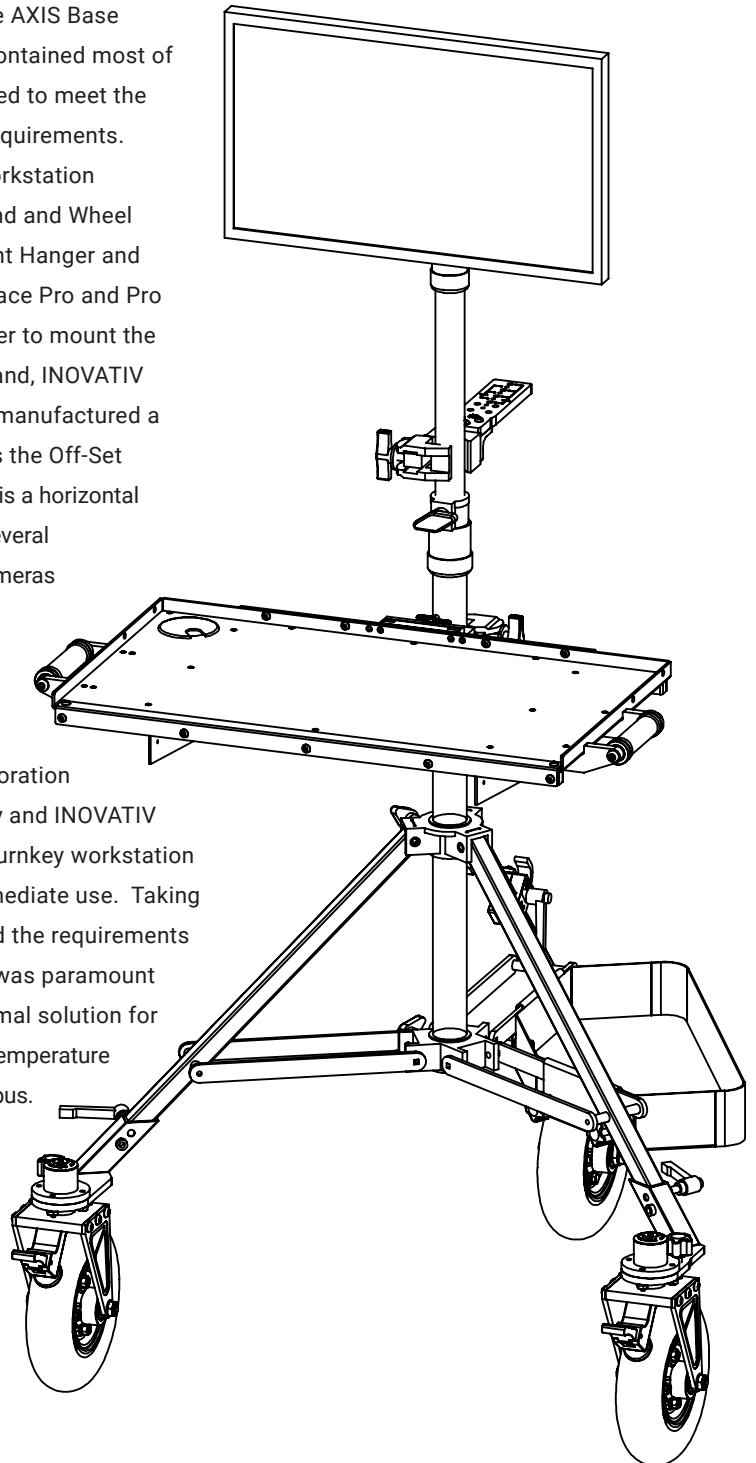
With the components and logistical needs identified, building a mobile high volume temperature check workstation began. From its large selection of current preconfigured workstations INOVATIV selected the AXIS Base Station as it already contained most of the components needed to meet the university's specific requirements. This preconfigured workstation features the AXIS Stand and Wheel System, Trough, Weight Hanger and Weight Bag, WorkSurface Pro and Pro Monitor Mount. In order to mount the FLIR camera to the stand, INOVATIV quickly designed and manufactured a new product known as the Off-Set Mounting Plate which is a horizontal aluminum plate with several threaded holes that cameras of different types can easily connect to.

The Results

The successful collaboration between the university and INOVATIV resulted in a custom turnkey workstation solution ready for immediate use. Taking the time to understand the requirements of the specific needs was paramount in developing the optimal solution for efficiently processing temperature checks for a large campus.

INOVATIV is the market leader for mobile workstations in broadcast, film

and photography production. The modular build of the workstations provides an ideal platform for high volume, high use institutional, industrial and public environments.



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Contact INOVATIV to explore options in creating custom turnkey solutions to meet your needs in this everchanging "new normal" world.