

Fixed MODEM - Deployment Guide, Camera Only







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Version Control

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Introduction

The aim of this document is to details the steps required to physically deploy the Fixed MODUM Capability.

Equipment List

Camera Only

The following equipment makes up the Camera Only Kit;

Part Number:

Serial	Description	Part Number	Image
1.	MODUM Camera System		
2.	MODUM Wall Mount		
3.	MODUM Ethernet Cable (3m) – Camera to Laptop		G ES
4.	MODUM Power Supply		
5.	Thermal Black Body inc PSU		



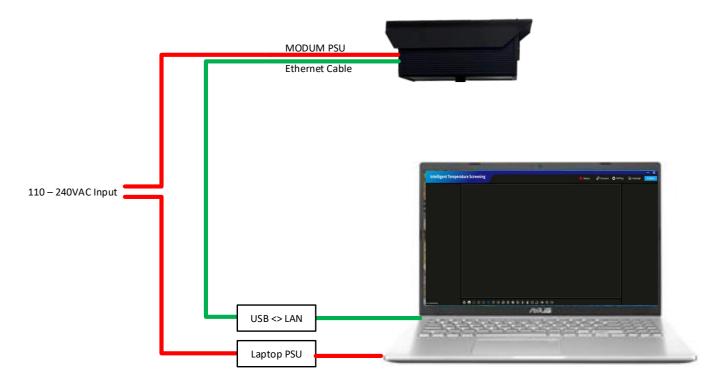
6.	MODUM Wall Mount		
7.	USB Stick	By Wallson	



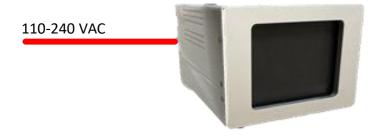
Installation Information

Wiring Guide

MODUM Camera System



Thermal Blackbody





Deployment Suggestions Deployment Notes

<u>General</u>

- 1. The system should be deployed indoors in a relatively stable ambient temperature.
- 2. Any quick changes in temperature will impact on the blackbodies ability to regulate its surface temperature. This will then have an impact on the accuracy of the system
- 3. If the system is to be deployed outdoors then protect from the environment by installing inside a container / tent.
- 4. Avoid areas that have a number of high temperature objects in the FOV. If any present, use the shield zones to shield them out.
- 5. Avoid placing directly at the entrance from the outside. Force the person to walk through a channel first before screening. This will allow enough time to reduce the impact on their skin temperature based on the outside conditions.

MODUM Camera

- 1. The MODUM Camera should be deployed around 2m from the people to be screened.
- 2. For best performance the MODUM Camera should be roughly head-height of the people to be screened minimising the angle of incidence to their faces as much as possible.

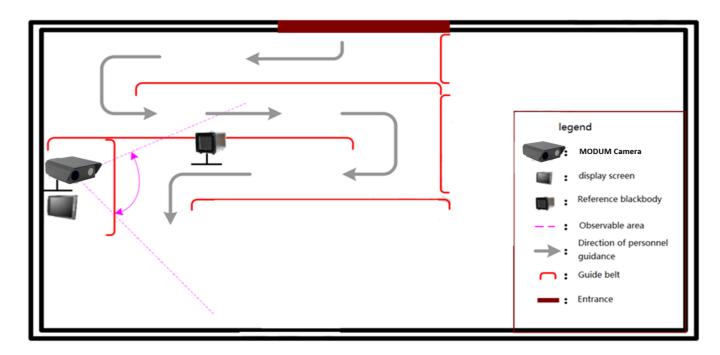
Black Body

- 1. The Black Body should be deployed towards to top of the Field of View (FOV) of the MODUM camera in an area that will not be obstructed.
- 2. Deploy as close to the range you want to screen at. I.e., if the people are to be screened at 2.5m deploy the blackbody at that range.
- 3. Avoid areas with high air flow. This may impact on the black bodies ability to maintain it's temperature.



Typical Deployment Scenario

The below architecture outlines a typical deployment scenario



Notes:

Personnel Movement

The above deployment includes a forced chanell that the individuals have to walk through. This ensures a compliant pose when walking towards the camera. It also provides time for the individuals skin temperature to stabilize versus the internal temperature and reduce the impact brought about by the outside environment.

Camera Placement

The Camera / Guide Belt placement ensures personnel cannot get 'too close' to the cameras. Any measurements away from the set range (typically 2m) will become less accurate. If they are measured further away, the read temperature will be lower. If they are measured closer the read temperature will be higher (potentially leading to false alarms).