

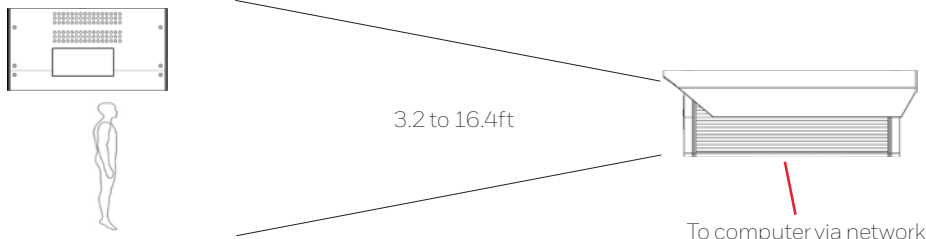
# MODUM

## High Accuracy Standoff Body Temperature Screening System

The Modum is a highly accurate body temperature screening solution that offers initial body temperature measurement for triage use. When deployed with the Blackbody device in its field of view (supplied), the Modum Camera is accurate to within 0.54°F making it perfect for abnormal body temperature screening requirements.

The Modum kits are designed to be deployed as standalone systems (or as part of a networked system) allowing a portable and rapid deployment.

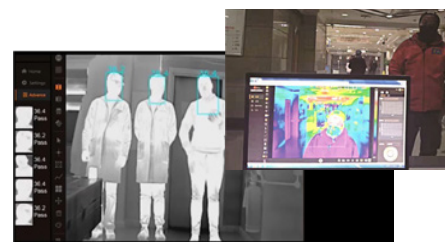
The Fixed Modum twins a highly accurate thermal camera with a 1080p daylight camera allowing for the quick identification and recording of the source of the trigger. This makes it perfect to integrate alongside a Face Detection or Facial Recognition capabilities.



CAMERA



BLACKBODY



MODUM SOFTWARE

## MARKET OPPORTUNITIES

The Modum kits are the perfect solution for initial body temperature measurement to control and secure entrance to airports, schools and universities, government public offices, shops, restaurants, museums and other facilities. The Modum kits are designed to be used as part of NDAA Section 889 compliant systems\*.

## FEATURES AND BENEFITS



Heat measurement up to 16.4ft away

High accuracy (0.54°F)

Can be used as part of NDAA Section 889 compliant systems\*



Secondary HD visible camera

High 640x512 and low 384x288 resolution options

SDK support



Complete kits available with Blackbody device for rapid deployment

Paired blackbody for temperature reference

The Silent Sentinel Modum body temperature camera is not FDA approved. However, it is marketed in accordance with the April 2020 FDA 'Enforcement Policy for Telethermographic Systems During the Coronavirus Disease 2019 (COVID-19) Public Health Emergency.

The following instructions should be observed:

1. The Modum camera should always be used with an accurate blackbody temperature reference source.
2. Guidelines set forth in ISO/TR 13154: 2017: Medical electrical equipment – Deployment, implementation and operational guidelines for identifying febrile humans using a screening thermograph should be observed.
3. The Modum camera system should be used for initial body temperature assessment for triage use.
4. The system should be used to measure only one subject's temperature at a time.
5. Following the identification of an individual with an elevated temperature through the triage process, any elevated body temperature measurement should be confirmed with secondary evaluation methods (e.g., non-contact infrared thermometer (NCIT) or clinical grade contact thermometer). The measurement from the Modum system should not be solely or primarily relied upon to diagnose or exclude a diagnosis of COVID-19, or any other disease.

\*:Applicable for all products manufactured from Oct 2020

# Honeywell

**SILENT SENTINEL**  
VISION & MOTION CONTROL

# MODUM BODY TEMPERATURE DETECTION SYSTEM

## Technical Specifications

GENERAL		
Part Number	<b>FD384H</b>	<b>FD640H</b>
Lens	7.8mm	15mm
Field of View	47.0°(H) to 35.6°(V)	33.3° (H) to 27.0° (V)
Detector	VOx uncooled thermal FPA	
Resolution	384x288	640x512
Pixel Size	17µm	14µm
Spectral Band	8 to 14µm (LWIR)	
Sensitivity	<40mK @ 25°C, F1.0	
Frequency	50Hz	
Measurement Range	1-5m (3.2-16.4ft)	

THERMAL IMAGE	
Image Adjustments	Brightness, Contrast. Manual/Auto
Polarity	Hot / Cold (colour related to the chosen palette)
Palette	16 Colour Palettes
Focus	Electronic Autofocus, Manual Focus
Image Process	NUC / DDE / Digital Filtering Noise Reduction
Image Flip	Left-Right / Up-Down / Diagonal
Region Of Interest	Yes

TEMPERATURE MEASUREMENT	
Range	0°C-60°C (32°F-140°F)
Accuracy	±0.5°C (0.9°F) at 33-42°C (91.4-107.6°F) of target temperature ±0.3°C (0.54°F) with blackbody
Working Temp.	16-32°C (60.8-89.6°F) with 0.3°C (0.54°C) accuracy with blackbody
Measurement Tools	Heat Measurement Box (drawn on screen)
Time to Stabilise	Camera: < 10 minutes, Blackbody < 5 minutes
Measur. Stable Time	≤10s (fastest)
Image Flip	Manual / Auto Correction

VISIBLE CAMERA	
Focal Length	8mm Fixed lens
Image Sensor	1/2.8" CMOS (2.13MP)
Resolution	1920 x 1080
Field of View (Horiz)	39°
Focus	Fixed
Minimum Sensitivity	0.1 lux

IMAGE PRESENTATION	
Video Output	IP RTSP / SDK Integration
Video over IP	ONVIF streams ~ Thermal only, Visible Only, Thermal with Visible Picture in Picture (PIP)

TELEMETRY	
Protocols	SDK/Custom IP Alerts* and ONVIF Motion Start Alert for Temperature Alarm**



For more information  
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Honeywell reserves the right, without notification, to make changes in product design or specifications.  
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PHYSICAL CHARACTERISTICS		
	<b>CAMERA</b>	<b>BLACKBODY</b>
Input Voltage	24VDC (Nominal)	110-240VAC
Power Consumption	Typical: 53W, Peak:100W	Peak: 260W
Weight	5kg / 12.2lb	1.5kg / 3.3lb
Size (HxWxD)	32.29" x 7.68" x 10.24"	4.33" x 5.91" x 7.68"
Housing	Matt black (RAL7005) Iridited aluminium, powder marine grade paint finish	White

INTERFACES	
Ethernet	Command and control of all functions including streaming of H.264 Video
Connectors	Stand Unit (1x RJ45, 1x 2.5mm DC Jack).

ENVIRONMENTAL		
	<b>CAMERA</b>	<b>BLACKBODY</b>
IP Rating	IP55	IP42
Temperature Range	-30-65°C (-22-149°F)	-5-100°C (23-212°F)

COMPUTER HARDWARE REQUIREMENTS	
CPU / RAM	I5 (or equivalent)* / 8GB
Operating System	Windows 10
Monitor Resolution	HD
Hard Drive	Minimum 256GB

\* The CPU processor should have a score greater than 7500 from the following Website: www.cpubenchmark.net

ORDERING INFORMATION	
<b>TEMPERATURE DETECTOR - BASIC CONTENT</b>	
Modum body temperature detection camera (384x288, 7.8mm lens or 640x512, 15mm lens), Blackbody, Modum PSU, 16.4ft cable assembly	
<b>HRCF-FD384H</b>	Temperature Detector 7.8mm with (A), (B)
<b>HRCF-KIT-FD384H</b>	Temp. Detector 7.8mm - kit / tripod with (A), (C), (E), (F), (G)
<b>HRCF-KIT2-FD384H</b>	Temp. Detector 7.8mm - kit / tripod (no laptop) with (A), (B), (E), (F), (G)
<b>HRCF-KIT-FD384H-T</b>	Temp. Detector 7.8mm - kit / trolley with (A), (C), (E), (F), (H)
<b>HRCF-KIT2-FD384H-T</b>	Temp. Detector 7.8mm - kit / trolley (no laptop) with (A), (B), (E), (F), (H)
<b>HRCF-FD640H</b>	Temperature Detector 15mm with (A), (B)
<b>HRCF-KIT-FD640H</b>	Temp. Detector 15mm - kit / tripod with (A), (C), (E), (F), (G)
<b>HRCF-KIT2-FD640H</b>	Temp. Detector 15mm - kit / tripod (no laptop) with (A), (B), (E), (F), (G)
<b>HRCF-KIT-FD640H-T</b>	Temp. Detector 15mm - kit / trolley with (A), (C), (E), (F), (H)
<b>HRCF-KIT2-FD640H-T</b>	Temp. Detector 15mm - kit / trolley (no laptop) with (A), (B), (E), (F), (H)

ACCESSORIES & OPTIONS		
<b>N/A</b>	<b>(A)</b>	Modum camera wall mount
<b>N/A</b>	<b>(B)</b>	Software on a USB flash drive
<b>HRCF-LAPTOP</b>	<b>(C)</b>	Modum laptop (pre-configured)
<b>HRCF-TRIPODM</b>	<b>(D)</b>	Modum camera tripod
<b>HRCF-TRIPODB</b>	<b>(E)</b>	Blackbody tripod
<b>HRCF-WMB</b>	<b>(F)</b>	Blackbody wall mount
<b>HRCF-CC</b>	<b>(G)</b>	Modum carry case
<b>HRCF-TROLLEY</b>	<b>(H)</b>	Modum system trolley

