

FIXED MODUM KIT

STAND OFF
ELEVATED BODY TEMPERATURE DETECTION



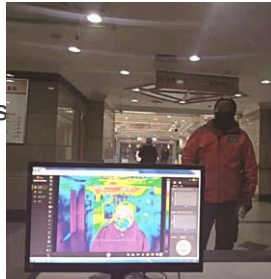
The Fixed Modum is a thermal imaging, non contact temperature detection and profiling system that offers a good level of temperature accuracy. When deployed with the supplied reference temperature blackbody the Fixed Modum is accurate to within 0.3 degrees making it perfect for a Standoff solution for an Elevated body temperature detection requirement.

The Fixed Modum KIT is designed to be deployed as a standalone system (or as part of a networked system). This allows for a portable and rapid deployment.

The Fixed Modum twins a thermal camera with a HD daylight camera, facilitating quick identification and when used with a recording device can identify the source of the trigger for later playback. This makes it perfect to integrate alongside a Facial Recognition systems.

KEY FEATURES

- Accuracy (0.3 Degrees)
- High 640x512 and low 384x288 resolution options
- Secondary HD visible camera
- Paired blackbody for temperature reference
- SDK support
- IP65 (optional)
- Wi-Fi (optional)
- Complete Kit for rapid deployment



TYPICAL MODUM KIT DEPLOYMENT

Modum Camera (mounts not shown)

Thermal Blackbody (mounts not shown)

Laptop



5m Multicore
Camera Cable
Assembly

110 / 230vAC

110 / 230vAC

110 / 230vAC

MODUM
PSU

Ethernet

Specifications may be subject to change without notice.
07/04/20 V4.9

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GENERAL

Part	FD384H	FD640H
Lens	7.8mm	15mm
Field of View	47.0°(W) to 35.6°(T)	33.3° (W) to 27.0° (T)
Detector	VOx uncooled thermal FPA	
Resolution	384x288	640x512
Pixel Size	17µm	14µm
Frequency	50Hz	50Hz
Measurement Range	2-5m	1-5m

THERMAL IMAGE

Image Adjustments	Brightness, Contrast. Manual/Auto
Polarity	Black Hot / White Hot
Palette	18 palettes
Focus	Electronic Autofocus, Manual Focus
Image Process	NUC / DDE / Digital Filtering Noise Reduction
Image Flip	Left-Right / Up-Down / Diagonal
ROI	Yes

TEMPERATURE MEASUREMENT

Measurement Range	0°C–60°C
Measurement Accuracy	±0.5°C at 33°C–42°C of target temperature (±0.3°C with blackbody)
Working Temperature	16–32°C (with 0.3°C accuracy with blackbody)
Measurement Tools	10 customized spots, highest/lowest spot, full frame temperature data, central spot, 12 lines/areas, isotherm
Measurement Stable Time	≤10s (fastest)
Temperature Correction	Manual / Auto Correction

VISIBLE CAMERA

Focal Length	8mm Fixed lens
Image Sensor	1/2.8" CMOS (2.13MP)
Resolution	1920 x 1080 (Full HD)
Horizontal FOV	39°
Focus	Fixed
Minimum Sensitivity	0.1 lux

MECHANICAL DRAWINGS

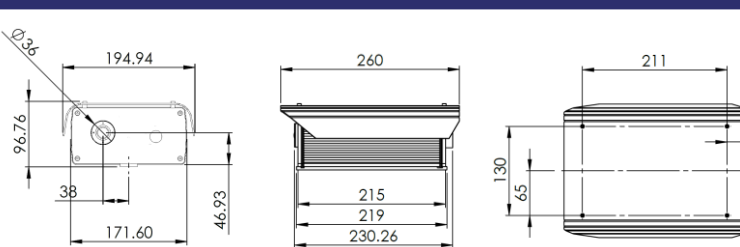


IMAGE PRESENTATION

Video Output	IP RTSP / SDK Integration
Video over IP	H.264 RSTP (thermal) and ONVIF Profile-S (HD)

TELEMETRY

Protocols	SDK/Custom IP Alerts* (thermal), ONVIF Profile-S (HD)
* To allow integrated custom IP protocols	

PHYSICAL CHARACTERISTICS

Part Number	RCF
Input Voltage	Nominal 24VDC
Power Consumption	Typical: 53W, Peak:100W
Housing Material	Iridited aluminium, powder marine grade paint finish
Camera Weight	5kg / 12.2lb
Camera Size (mm)	H90 x W134 x D145
Colour	Matt black finish (RAL7005)

INTERFACES

Ethernet	Command and control of all functions including streaming of H.264 Video
Connectors	Stand Unit (1x RJ45, 1x 2.5mm DC Jack). Optional IP65 Version (1x SOURIAU UTOW7149PH6)

ENVIRONMENTAL

IP Rating	IP65 (optional)
Temperature Range	-30°C (-22°F) up to 65°C (149°F) (-40°C with optional heater)

BLACKBODY

Voltage Input	110-240VAC
Power	260W Peak
Working Temperature	5-100°C
Time to Stabilise	<5 minutes

MINIMUM PC/LAPTOP HARDWARE SPECIFICATION

CPU	I5 (or equivalent)*
RAM	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

KIT ACCESSORIES (INCLUDED)

Part	RCF-KIT-FD384H or RCF-KIT-FD640H	RCF-KIT-FD384H-T or RCF-KIT-FD640H-T
Laptop	Modum Laptop (pre-configured)	Modum Laptop (pre-configured)
Mounts	Modum Camera Wall Mount	Modum Camera Wall Mount
	Modum Camera Tripod	Modum Camera Trolley
	Blackbody Wall Mount	Blackbody Wall Mount
Case	Blackbody Tripod	Blackbody Tripod
	Modum Carry Case	Modum Carry Case

MODUM KIT PART NUMBERS

RCF-KIT-FD384H	COMPLETE KIT Including - Modum EBT detection camera (384x288, 7.8mm lens), blackbody, Modum camera tripod, Modum camera wall mount, Blackbody wall mount, Blackbody tripod, laptop (pre-configured), Modum PSU, 5m cable assembly & carry case
RCF-KIT-FD640H	COMPLETE KIT Including - Modum EBT detection camera (640x512, 15mm lens), blackbody, Modum camera tripod, Modum camera wall mount, Blackbody wall mount, Blackbody tripod, laptop (pre-configured), Modum PSU, 5m cable assembly & carry case
RCF-KIT-FD384H-T	COMPLETE KIT Including - Modum EBT detection camera (384x288, 7.8mm lens), blackbody, Modum camera trolley, Blackbody wall mount, Blackbody tripod, laptop (pre-configured), Modum PSU, 2.5m cable assembly & carry case
RCF-KIT-FD640H-T	COMPLETE KIT Including - Modum EBT detection camera (640x512, 15mm lens), blackbody, Modum camera trolley, Blackbody wall mount, Blackbody tripod, laptop (pre-configured), Modum PSU, 2.5m cable assembly & carry case

OPTIONAL

RCF-IP65	Modum camera IP65 upgrade
RCF-WIFI	Modum cameras Wi-Fi upgrade

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