FIXED MODUM KIT



HIGH ACCURACY STANDOFF BODY TEMPERATURE DETECTION

The Fixed Modum is a highly accurate temperature detection and profiling system. When deployed with the supplied Blackbody the Fixed Modum is accurate to within 0.3 degrees making it perfect for standoff elevated body temperature detection requirements.

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 as a standalone system.

The Fixed Modum twins a highly accurate thermal camera with a HD daylight camera allowing for the quick identification and recording of the ger. This makes it perfect to integrate alongside a Facial Recognition capability.

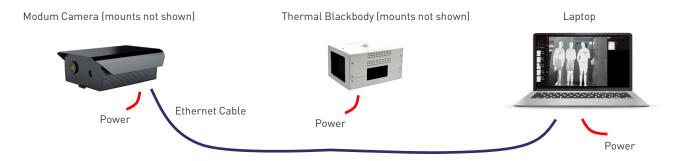
KEY FEATURES

- High accuracy (0.3 Degrees)
- High 640x512 and low 384x288 resolution options
- Heat measurement up to 5m away
- Secondary HD visible camera
- Paired blackbody for temperature reference
- SDK support
- Complete Kit (with tripods or trolleys) for rapid deployment





TYPICAL MODUM KIT DEPLOYMENT







FIXED MODUM KIT





GENERAL				
Part	FD384H	FD640H		
Lens	7.8mm	15mm		
Field of View	47.0°(H) x 35.6°(V)	33.3° (H) x 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			

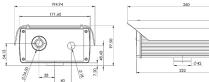
THERMAL IMAGE	
Image Adjustments	Brightness, Contrast. Manual/Auto
Polarity	Hot / Cold (colour related to the chosen palette)
Palette	16 Colour Palettes
Focus	Electronic Autofocus, Manual Focus
Image Process	NUC / DDE / Digital Filtering Noise Reduction
DOL	V

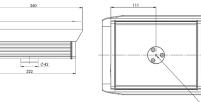
TEMPERATURE ME	TEMPERATURE MEASUREMENT		
Measurement Range	0°C to 60°C		
Measurement Accuracy	$\pm 0.5^{\circ}\text{C}$ at 33°C to 42°C of target temperature ($\pm 0.3^{\circ}\text{C}$ with blackbody)		
Working Temperature	16 to 32°C (with 0.3°C accuracy with blackbody)		
Measurement Tools	Heat Measurement Box (drawn on screen)		
Time to Stabilise	< 10 Minutes (from power up)		
Measurement Stable Time	€10s (fastest)		

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			

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**	
*To allow intermediate and a control ID market allow **Dallow in the CCL ONIVIE being a reference		

MECHANICAL DRAWINGS





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)	H98 x W195 x D260	
Colour	Black	

INTERFACES	
Ethernet	Command and control of all functions including streaming of H.264 Video

EIN	/IKC	MMEN	ITAL	
IP Rat	ing		IP55	
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BLACKBODY	
Voltage Input	110-240VAC
Power	260W Peak
Working Temperature	5-100°C
Time to Stabilise	<5 Minutes
Blackbody Weight	1.5kg / 3.3lb
Black Body Size (mm)	H110 x W150 x D195
IP Rating	IP42

PHRIMON FOLAR FOR HARDWARE SFECH ICATION			
CPU	I5 (or equivalent)*		
RAM	8GB		
Operating System	Windows 10		
Monitor Resolution	HD		
Hard Drive	Minimum 254GB		

 ${\rm *The\,CPU\,processer\,should\,have\,a\,score\,greater\,than\,7500\,from\,the\,following\,Website:www.cpubenchmark.net}$

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
Mounts	Modum Camera <u>Tripod</u>	Modum Camera <u>Trolley</u>
	Blackbody Wall Mount	Blackbody Wall Mount
	Blackbody Tripod	Blackbody Tripod
Case	Modum Carry Case	Modum Carry Case

* Kits are available without the laptop (software is supplied on a USB flash drive)

	MODUM	KIT P	ART N	UMBERS
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	RCF-KIT-FD384H	COMPLETE KIT Including - Modum elevated body temperature 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 elevated body temperature 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 elevated body temperature detection camera (384x288, 7.8mm lens), blackbody, Modum camera trolley, Blackbody wall mount, Blackbody tripod, laptop (preconfigured), Modum PSU, 5m cable assembly & carry case
	RCF-KIT-FD640H-T	COMPLETE KIT Including - Modum elevated body temperature detection camera [640x512, 15mm lens], blackbody, Modum camera trolley, Blackbody wall mount, Blackbody tripod, laptop (preconfigured), Modum PSU, 5m cable assembly & carry case
	If the lenter is not required then change the main part code from BCE VIT VVVVV a BCE VIT2 VVVVV	

Specifications may be subject to change without notice. $11/06/20 \; \text{V4.13}$





