



Sentinel-CF320 *Fever Scan*



Thermal Imaging Scanner for *febrile screening of elevated face and inner canthi temperatures*



High Precision +/-0.2°C

- ❖ **Most accurate febrile scanning system currently available**
- ❖ Facial Recognition, matching thermal image to visual image
- ❖ **Designed to work on moving targets between 2 to 6m or 5 to 10m**
- ❖ Unique algorithm to minimise temperature differences by distance
- ❖ **Constant self-calibration of thermal camera based on Black Body temperature**
- ❖ Camera seeks out the Black Body within the thermal Field of View
- ❖ **Black Body reference source +/-0.2°C accuracy**
- ❖ Black Body has special algorithm to remain stable even in windy environments
- ❖ **Excellent Temperature sensitivity of MRTD 50mK (0.05°C)**
- ❖ Iso-Thermal colouring allows rapid location of target
- ❖ **Face detection isolates any face within the Field of View of the thermal image**
- ❖ FSM s/w will also find the faces with the visual camera and mark temperatures
- ❖ **All faces have a box placed around head image of thermal and visual image**
- ❖ Provides temperature values of all faces within the field of view / region of interest
- ❖ **All faces that exceed threshold will have a red box around the head image**
- ❖ Any face that exceeds a pre-set level will produce an alarm and record both images
- ❖ **FSM s/w will ignore pictures of faces, will not provide false alarms as some systems do**
- ❖ **Will measure temperature of the whole face not just the forehead as some systems do**

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Conforms to the general requirements and guidelines of BS EN IEC 80601-2-59:2019



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Sentinel-CF320 System Specifications

		Specification
Thermal camera		
Sensor	Micro-bolometer	Uncooled focal plane array
	Resolution	CF320: 384 x 288, CF640: 640 x 480
	Pixel pitch	17µm
	Response wavelength	8µm to 14µm
	Thermal sensitivity	50mK@f1.0, 30Hz, 300K
Lens	Lens type	Athermalized lens
	Focal length	8.13mm f1.16 or 15mm f1.0
	HFOV/VFOV	47.4°/35.1 or 24.5°/18.5°
	Min. focus distance	0.5m
Visible camera		
Sensor	Image sensor	1/3" Progressive CMOS (Approx. 2.1 mega)
	Scanning System	16:9 Progressive
	Effective Pixel	1920(H) x 1080(V)
	Min. Illumination	0.2Lux (Day), 0.1Lux (Night)
	Horizontal Resolution	1000TVL
Lens	Optic	4mm 70° HFOV
Function	Back Light Comp.	WDR/BLC
	Exposure	Auto / Manual
	White Balance	Auto (3000°K ~ 8000°K)
	Day & Night System	AGC / TDN(ICR)
	Electronic Shutter	1/1 ~ 1/30000
	Functions	Brightness, Contrast, Hue, Saturation, 3DNR, Flicker-less, Sharpness, Gamma, Digital-Zoom
Video output	Interface	USB3.0 Super Speed
	Format	USB3.0 UVC compliant YUV 422 16bits, uncompressed video
	Resolution and Frame Rate	1920x1080p@50/60/25/30 1280x720p@25/30(Default)
Control interface	USB	UVC camera control by computer
General		
Operation	Operating Temperature Range (visible & thermal camera)	-10°C ~ 50°C
Blackbody		
Blackbody	Fixed temperature set at the factory	40°C
	Effective radiant surface	Φ55
	Temperature resolution	0.01
	Temperature stability	+/-0.2°C
	Temperature	+/-0.2°C
	Emissivity	0.97
	Temperature sensor	NTC 0.1%
	Power supply	AV to 12VDC adaptor 25W
	Weight	330g
	Dimension	72(H)mm x 72(W)mm x 49(D)mm
	Operation Temperature	-10°C ~ 40°C under 80% humidity

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Thermal Vision Systems www.focus2k.co.uk



beyond light we see heat...



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