



NDAA
COMPLIANT PRODUCTS



Summary

In accordance with the U.S. FDA's COVID-19 Enforcement Policy criteria released in April 2020, the DW E.S.T.TM is an NDAA/TSA and FDA compliant security-grade thermal camera that provides a low-impact, contactless alternative to traditional screening methods. At a distance of 6.5-16.4ft (10ft is recommended), with $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$) accuracy tolerance, the E.S.T. scanning solution provides a high degree of flexibility to meet the individual requirements of a wide variety of installations.

Instead of manually taking the temperature of every person entering a building, E.S.T. identifies people with elevated skin temperature so you can easily separate them for additional screening.

The system includes an E.S.T. Blackbody temperature sensor, skin temperature scanner camera and a 2.1MP/1080p HD temperature camera, making it easy for users to quickly detect and identify any person that may require additional screening.

Features

- A flexible, single product, integrated solution
- Enables high-throughput prescreening of people to detect indications of elevated skin temperature
- Detailed scanner images showing a skin temperature for each person
- NDAA/TSA compliant
- At a distance of 6.5-16.4ft (2m-5m), provides a high degree of flexibility to meet the situational awareness requirements of a wide variety of installations (10ft is recommended)
- Dual image sensor with thermal detect
- Data processing on the software side
- High accuracy smart auto-calibration with Blackbody sensor
- Smart auto-calibration between the software and Blackbody
- Includes prescreening management software with easy user interface
- Easy to setup
- Large sensor (384x288), 4x more data
- Alarm outputs for access control integration
- Privacy masks mode
- Multiple view options, including split view, PIP & single view modes
- Temperature view color scheme adjustment
- FDA compliant
- Tripods included for an out-of-the-box solution (DW-ESTS)

Purchasing Options



DW-ESTS
Complete kit includes: camera, Blackbody + 2 tripods



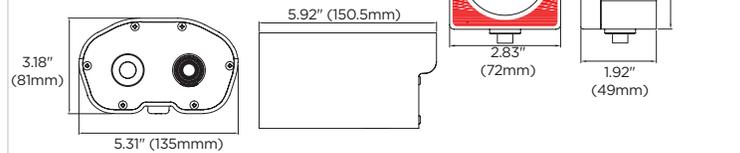
DW-ESTCAM
Temperature camera



DW-ESTBLKB
Blackbody

Dimensions

Unit: Inch (mm)



Specifications

TEMPERATURE CAMERA		
Sensor	Micro-bolometer	Uncooled focal plane array
	Resolution	384 x 288
	Pixel pitch	17 μm
	Response wavelength	8 μm to 14 μm
	Temperature sensitivity	50mK@f1.0, 30Hz, 300K
Lens	Lens type	Thermalized lens
	Focal length	8.13mm f1.16
	HFOV/VFOV	47.4°/35.1°
	Recommended distance range for best reliable measurement	6.5 to 16.4ft (2m to 5m) 10 ft is recommended
	Minimum focus distance	1.64ft (0.5m)
Data output	Interface	Gigabit Ethernet (10/100)
	Data	Temperature raw data of each pixel of the temperature sensor
	Frame rate	30Hz
VISIBLE CAMERA		
Sensor	Image sensor	1/3" progressive CMOS (approx. 2.1MP/1080p)
	Scanning system	16:9 progressive
	Effective pixel	1920 (H) x 1080 (V)
	Minimum scene illumination	0.2 lux (color), 0.1 lux (B/W)
	Horizontal resolution	1000TVL
Lens	Optic	4.0mm 70° HFOV
Video output	Interface	USB3.0 super-speed
	Format	USB3.0 UVC compliant YUV 422 16bits, uncompressed video
	Resolution and frame rate	1920x1080p @ 30fps
GENERAL - CAMERA		
Operation	Weight	2.2lbs (1000g) including a USB cable from the visible camera
	Dimension (H x W x D)	3.18" x 5.31" x 5.92" (81 x 135 x 150.5mm)
	Power supply	12V DC
	Operating temperature	68°F - 86°F (20°C - 30°C), under 80% humidity
GENERAL - BLACKBODY		
Operation	Default fixed temperature	104°F (40°C)
	Effective radiant surface	Φ55
	Temperature resolution	0.01
	Temperature stability	$\pm 0.18^{\circ}\text{F}$ ($\pm 0.1^{\circ}\text{C}$)
	Temperature accuracy	$\pm 0.36^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$)
	Emissivity	0.95
	Temperature sensor	NTC 0.1%
	Weight	0.72 lbs (330g)
	Dimension (H x W x D)	2.83" x 2.83" x 1.92" (72 x 72 x 49mm)
	Power supply	12V DC
	Recommended distance from the camera	9.8-14.7ft (3m-4m) from the camera (10ft is recommended). Recommended height is 5ft. The closer people walk by the blackbody, the more accurate the temperature reading will be.
	Operating temperature and humidity	14°F-104°F (-10°C-40°C), under 80% humidity
Warranty		2 year warranty
SOFTWARE - MINIMUM HARDWARE REQUIREMENTS		
OS	Windows® OS.	
CPU	Intel Core i5® or higher (7th generation Intel Core or higher).	
RAM	8GB or higher.	
HDD	Recommended for physical separation of HDD for program installation and HDD for data storage.	
Video output	NVIDIA GTX 750 or higher (maintain the latest driver).	

* Specifications are subject to change without notice.

** The E.S.T. system is intended for non-medical purposes. It is not designed for use in the diagnosis of diseases or other conditions nor the cure, mitigation, treatment, or prevention of any disease.