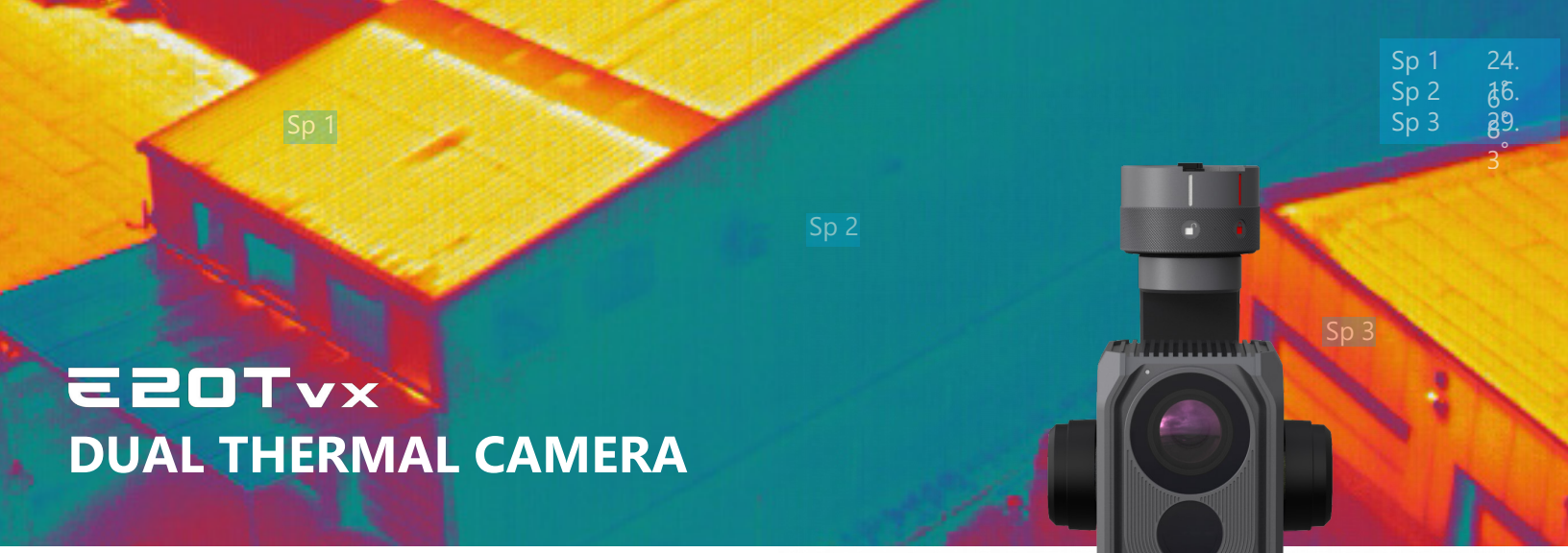


E20Tvx
DUAL THERMAL CAMERA

THERMAL IMAGING SOLUTION

Our new E20Tvx NETD camera for the H520E comes in 640x512 resolution and with the ability to capture temperature data for quantitative assessment. The residual-light RGB camera has a 20x higher sensitivity than the human eye and captures high-quality imagery, even in very low-light conditions.

Radiometric*

The E20Tvx can measure the temperature of an area by interpreting the intensity of an infrared signal reaching the camera. It collects the data for every image pixel, which can be then be uploaded into specialized software* for further analysis and reports.
** Software to be released at a future date, at no charge*

KEY FEATURES:

/ High sensitivity for clear and detailed target recognition.
/ Detailed and precise temperature measurement for every pixel.
/ Color palettes adjustable to task requirements.
/ Adjustable Gain Modes to change the measured tempreature range.
/ Post-flight accurate analysis with quantifiable data.
/ Suitable for tasks related to Inspection (buildings, solar panels and powerlines), Search and Rescue, Firefighting and Law enforcement.

Dual Lens: IR & Low Light RGB

The 1080p low light camera coupled with the thermal imaging camera combine to capture IR and RGB for an overlay image that is pixel-accurate. A large RGB sensor detects better detail in the dark than the human eye, making it ideal for surveillance.

Simultaneous Real-time View

Images are simultaneously streamed live to the ST16E ground control station and can be viewed as picture-in-picture or as an overlay. IR and RGB are recorded simultaneously and are time- code correct for playback and edit. The temperature detection scale can be adjusted to focus on relevant areas.

Hot-Swappable Payload

All Yuneec commercial camera systems are hot-swappable, which minimizes downtime and improves productivity.

The E20Tvx camera-gimbal combination may be swapped without power cycling the airframe. The quick-release and lock mechanism of the gimbal and airframe mounting system enables a fast and efficient exchange of cameras.

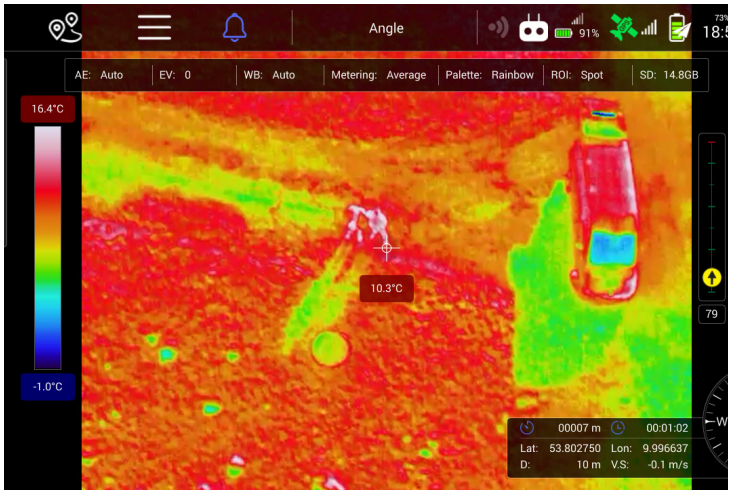
DUAL LENS IR/LOW LIGHT RGB
THERMAL IMAGING
NIGHT VISION CAPABILITY
3 AXIS GIMBAL
ADJUSTABLE TEMP DETECTION
330° GIMBAL ROTATION
REMOTE CAMERA SETTINGS
LOW DISTORTION LENS

ATL Americas Advanced Technology Labs YUNEEC

APPLICATION AREAS

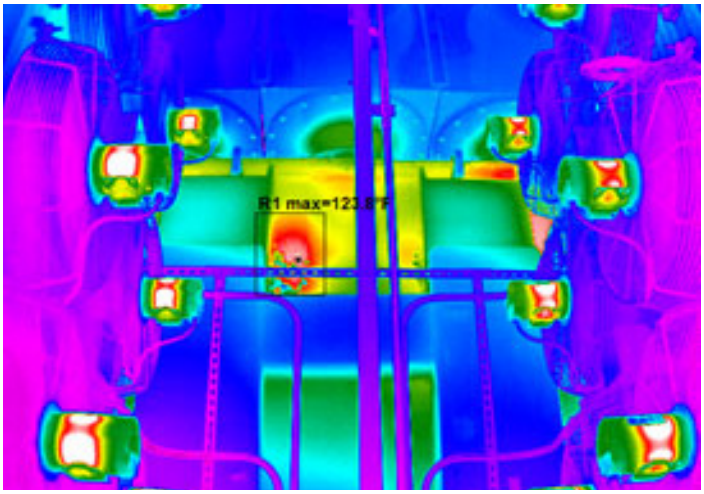
Search & Rescue

The E20Tvx is ideal for use in search and rescue missions due to its dual-camera capability. The low light video camera can be used in daylight search and can be extended for in pre-dawn/ post-dusk and early morning/late afternoon times when light is low or shadows are long. The thermal camera can be deployed day or night for easier detection of people or animals. And when a hot spot is detected, the E20Tvx temperature detection scale can be adjusted to focus on relevant search areas.



Building, Powerline and Solar Inspection

Property owners and utility operators will appreciate the flexibility of the dual-camera system. The thermal camera on the E20Tvx can be used to identify heating or cooling loss in a structure. It can also be used to detect and locate malfunctioning solar panels on residential or commercial buildings as well as in solar farms, saving time and money as well as improving the safety of asset inspection.



Tech Specs

Weight	358g
GIMBAL	
Angular Vibration Range	±.0.03°
Controllable Range	TILT: -110° - 30° PAN: ± 165°
Max Angular Velocity	TILT:30°/s PAN:120°/s
Operating Temperature	-10°C - 40°C
INFRARED PART	
Diagonal Fov	41.4°
Fov(H x V, ±5%)	33° x 26.6°
Sensitivity	<50mk
Pixel Pitch	12μm
Infrared Wavelength Range	8-14μm
Frequency	Full Frame Rate: 25Hz
Photo Format	JPEG
Video Format	MP4
Temperature Compensation	Auto
Resolution	640×512
Temperature Measurement Range	High Gain -20°-150° Low Gain 100°-500°

OPTICAL PART	
Sensor	1/2.8" 2.13M
Aperture	F2.8
Equivalent Focal	23mm
Length Diagonal Fov	90°
ISO Range	100-3200
Shutter	1/30-1/8000s
Video Resolution	1920*1080p 60fps
Photo Format	JPEG
Video Format	MP4

Item No. YUNE20Tvx33US