

# E10Tv FOR H520

640 X 512  
THERMAL RESOLUTION



Dual Power - The E10Tv FLIR® thermal imaging and low light camera was especially designed for the YUNEEC H520. With a thermal resolution of 640 x 512 pixels, the E10T takes high-quality pictures and detects more details in the dark than the naked eye with the help of its large RGB sensor.

Thanks to its dual video stream, you can stream the thermal and residual light image simultaneously to the remote control and then look at the image as an overlay or picture-in-picture. The H520 Hexacopter was specially developed for inspection, safety, and search & rescue applications. With its multi-sensor compatibility, the H520 Hexacopter offers emergency services, firefighters, police and inspectors reliable and efficient air support in combination with the E10T thermal imaging and residual light camera. When searching for people, the drone enables you to look for people very quickly from the air using the

#### E10T FLIR® Thermal and RGB camera for H520 Hexacopter, 640 x 512 Thermal Resolution

YUNE10TVUS - 50° FOV, 4,4 mm  
YUNE10TV16US - 16° FOV, 13,8 mm  
YUNE10TV24US - 24° FOV, 9,1 mm  
YUNE10TV34US - 34° FOV, 6,5 mm

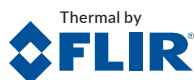
from  
**\$7,499** MAP

latest Boson thermal sensor from FLIR®. In case of fires, hot spots can be detected and allows fast and efficient countermeasures, which can save lives. Moreover, all required details on an inspection object can be detected with the H520 without having to get too close to the object. The drone's live image can be transferred to a monitor during the flight, so several people can take part in the inspection and make initial analyses during the flight.

Along with the E10Tv, the E10T FLIR® thermal and low light camera with 320 x 256 thermal resolution is also available.

#### KEY FEATURES

- > Thermal imaging by FLIR® and residual light dual camera for H520
- > 640 x 512 thermal resolution
- > Dual video stream
- > Up to 28 minutes flight time with the H520
- > Hot-swap gimbal
- > Continuous 360° gimbal rotation
- > Full camera control via the ST16S
- > Supports DataPilot and mission planning



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## TECHNICAL SPECIFICATIONS

Dimensions: 115 x 80 x 130 mm  
 Weight: 350 g  
 Compatible Platforms: H520 (approx. 28 min flight time)  
 Controllable Range: Tilt: 15° to -90° / Pan: 360° limitless

### OPTICAL CAMERA

Sensor: 1/2.8" 2MP 23mm F2.8  
 Range: 2 km  
 FOV: 89,6°  
 Video Resolution: FHD (1920x1080), H264 (NTSC) 24/25/30/48/60, MP4  
 Photo Resolution: 16:9, 1920x1080, JPG  
 ISO: 100 - 12800  
 Shutter: 1/30 - 1/8000s  
 TF Support: FAT32(≤ 32 GB) / exFAT(>32 GB)

### FLIR® THERMAL CAMERA

Sensor Technology: uncooled VOx microbolometer  
 Thermal Resolution: 320x256 or 640x512  
 Pixel Size: 12 μm  
 Spectral Range: 8-14 μm  
 Effective Frame Rate: < 9Hz  
 Sensitivity: < 50 mK, @f/1.0  
 Scene Range (High Gain): 640×512: -25°C to 135°C / 320×256: -25°C to 100°C  
 Scene Range (Low Gain): -40°C to 550°C  
 Spot Meter: >98,5%, no clusters > 3x3  
 Image Optimization: Yes  
 Digital Detail Enhancement: Yes  
 Polarity Control (black hot/white hot): Yes  
 Color & Monochrome Palettes (LUTs): Yes  
 Photo Format: JPEG, TIFF  
 Video Format: MP4

Item #	Name	RGB Resolution	Thermal Resolution	Thermal FOV	Thermal Focal Length	Availability	MAP
YUNE10T	E10T50	1920x1080	320x256	50°	4.3mm	available from stock	\$4,999
YUNE10T16	E10T16	1920x1080	320x256	16°	13.8mm	available on pre order only	\$5,449
YUNE10T24	E10T24	1920x1080	320x256	24°	9.1 mm	available on pre order only	\$5,449
YUNE10T34	E10T34	1920x1080	320x256	34°	6.3mm	available from stock	\$4,999
YUNE10TV18	E10Tv18	1920x1080	640x512	18°	24mm	available on pre order soon	\$7,949
YUNE10TV24	E10Tv24	1920x1080	640x512	24°	18mm	available on pre order soon	\$7,949
YUNE10TV32	E10Tv32	1920x1080	640x512	32°	14mm	available from stock soon	\$7,499
YUNE10TV50	E10Tv50	1920x1080	640x512	50°	8.7mm	available from stock soon	\$7,499