

# E50

# DETAILS AT A DISTANCE



## INSPECTION QUALITY AT A SAFE DISTANCE

The medium focal length lens on the Yuneec E50, a gimbal stabilized camera, allows pilots to fly further away from an object of inspection, reducing risk. Flying further away reduces impact of turbulence and wind shear generated by the inspection object.

### 40mm Focal Length

The medium focal length of the E50, coupled with the 1/2.3 CMOS imager, provides sharp, detailed images in a 12MP resolution. Ideal for journalism, inspections, and other applications where distance is required.



### 7-Element Lens

The E50 utilizes a 7-element, low distortion lens system with minimal lens dispersion. The E50 is equipped with a lens adapter ring threaded to fit 30.5mm standard filters for flexibility and convenience.



### Continuous 360-Degree Rotation

The E50 gimbal is capable of continuous 360° yaw axis rotation. This unique feature, when combined with the H520 retractable landing gear, provides the operator with limitless 360° unobstructed camera view and the ability to continuously pan the camera without yawing the airframe.



### Hot-Swap Capable Payload



All Yuneec commercial camera systems are hot-swap capable which minimizes down time and improves productivity.

The E50 camera-gimbal combination may be swapped for an E90 or CGOET camera gimbal combo without power cycling the airframe. The quick release and lock mechanism of the gimbal and airframe mounting system enables fast and efficient exchange of cameras.



**4K**

60MB 30FPS  
VIDEO CAPTURE

**HD  
1080P**

60FPS  
VIDEO CAPTURE

**12MP**

12.4 MEGAPIXEL  
STILL IMAGES



LOW DISTORTION  
LENS

**HD  
720P**

DIGITAL  
VIDEO DOWNLINK



REMOTE CAMERA  
SETTINGS

**X  
Y  
Z**

3 AXIS GIMBAL

**360°**

CONTINUOUS  
GIMBAL ROTATION

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## Precision Asset Inspection

The E50 is ideal for critical inspection of cell towers, wind turbines, oil & gas platforms and other vertical assets. The 40mm equivalent lens enables the E50 to capture important visual detail while maintaining a safe distance from the asset. This additional distance allows the H520 airframe to avoid air turbulence providing for a more stable hover leading to dramatically clearer images.



## Aerial Cinematic Capture

Broadcast and production professionals will appreciate the cinematic effect afforded by the E50's 40mm prime lens equivalent focal length. Capture the subject from a safe distance and improve flight stability yielding smoother, clearer video and images.



## Specifications

BURST SPEED (PHOTO)	3@1s / 5@1s / 7@1s
COLOR SENSITIVITY	RGB
COMPRESSION BIT RATE	60Mbps
COMPRESSION TYPE	AVC/HEVC
DNR	2D FILTER
EFFECTIVE PIXELS	12.4 MEGAPIXELS
ELEMENTS	7
FOV	DFOV 58° ± 3°
FOCAL LENGTH	39mm
FRAMERATE	24/25/30/48/50/60/120
FSTOP RANGE	F2.4 ± 5%
GIMBAL AXIS	3
GIMBAL CONTROL ACCURACY	±.02°
ISO RANGE	100 - 3200
MAX VIDEO RESOLUTION	4K 30FPS
GIMBAL MAXIMUM CONTROL RANGE	TILT: -90° - 15° PAN: 360° LIMITLESS
GIMBAL MAXIMUM CONTROL SPEED	TILT: 50%/s PAN: 50%/s
MINIMUM SD CARD	CLASS 10 u3
MTF	104lp/mm, CENTER: 0.6, CORNER : 0.4
SENSOR SIZE	1/2.3 INCH CMOS
SHUTTER SPEED	1/8000 - 4s
SHUTTER TYPE	ROLLING
SNR	ISO100, SNR 32db
STORAGE TEMPERATURE	10°C - 30°C
WEIGHT	330g

## E50 Camera and Gimbal

