

# H520

ELEVATED PRODUCTIVITY THROUGH  
AERIAL INNOVATION



## COMMERCIAL AERIAL SOLUTION

The H520 Hexacopter aerial system has been developed specifically for commercial use. This sUAS enterprise solution features a proven, stable, long flight time airframe, with multiple payload options and advanced DataPilot™ mission planning software. Yuneec sUAS are built for inspection, law enforcement, security, construction, surveying, mapping, and broadcast applications.

### Features

- Six-rotor (Hex) safety, stability and reliability
- High wind-resistant airframe
- Interchangeable payloads/sensors
- Up to 28 minute flight time based on payload weight
- 360° continuous rotation camera gimbal
- Retractable landing gear
- ST16S ground station with 7" HD Touch display
- DataPilot™ mission control software system
- HDMI® output for HD display to Command/Control
- Yuneec SDK application development



\*BASED ON PAYLOAD WEIGHT

### Interchangeable Payloads

Select one or more Yuneec Hot-Swap Capable payload solutions.



## E90

The E90 is ideal for surveying, mapping, broadcast, and general imaging. The large 1-inch sensor, 10 bit internal processing, and 23mm lens combine to provide deep contrast 4K images and 20MP stills.



## E50

The E50 camera delivers deep-focus images and 4K video. A 40mm, 7-element lens provides users with distortion-free, edge to edge clean images ideal for infrastructure inspection or long-distance broadcast use.



## CGOET

Thermal imaging provides critical information to LEO, Fire, and SAR organizations. The Yuneec CGOET is equipped with dual imaging, offering both thermal and low-light video capability in one payload. Thermal and RGB images are simultaneously recorded as separate streams for ease of playback and editing.

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## VERSATILE AERIAL PLATFORM

### Law Enforcement

Law Enforcement agencies increasingly rely on sUAS systems for accident scene reconstruction. The Yuneec H520 six-motor sUAS system allows Law Enforcement officers to safely and reliably record an accident scene in 2D or 3D. The H520 is compatible with 3rd party 3D Imaging software and Yuneec's DataPilot™ software enables autonomous flight for high-speed, precise data collection.



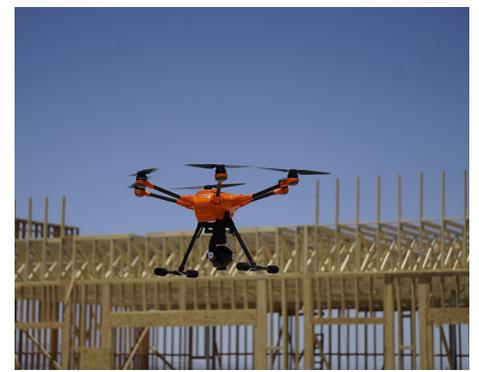
### Inspection

Yuneec Commercial sUAS are designed with the inspection industry in mind with a six-rotor system that allows for precision flight and longer focal-length lenses that allow the sUAS to fly at greater distance from an asset. In high-wind environments, the Yuneec H520 sUAS system is able to hold position, allowing the solution to fly even when a manned inspection would be deemed unsafe.



### Construction

Yuneec H520 sUAS are capable of low and slow flight with greater stability and safety than a typical quad-copter system. Greater airframe stability, combined with Yuneec's 1-inch 4K resolution E90 camera, provides for higher quality imaging, resulting in superior high-resolution 2D or ortho or 3D maps, precision volumetrics, and 3D surface models.



### Specifications - H520

Airframe Weight (with Battery)	59.8Oz (1695G)
Battery	4S 15.2V LIPO Battery (Power 4P)
Battery Capacity / Voltage	5250Mah 4S/15.2V (79.8Wh)
Charger	SC4000-4
Compatible Cameras	CGOET, E90, E50
Flight Time	Up To 28 minute flight time
GPS Accuracy/Frequency	Horizontal 5M, Vertical 8M /5Hz
Hover Accuracy	Horizontal +/- 1.5M ; Vertical +/- 0.5M
Maximum Altitude	16404FT (5000M)
Maximum Climbing Speed	11MPH (5M/S)
Maximum Descending Speed	6.7 MPH (3M/S)
Maximum Flying Height	400FT (122M) Agl (Restricted By FAA)
Maximum Lifting Capacity	1.1Lbs, 17.6Oz (500G)
Maximum Roll Angle	35°
Maximum Rotation Rate	85 Deg/S
Maximum Speed	30.2MPH (13.5M/S)
Maximum Take Off Weight	88Oz (2495G)
Operational Temperatures	-10°C - 40°C
Size	20.5X18x12.2 In (520X457x310mm)
Storage Temperature	20°C - 60°C
Take Off Weight W/CGO-ET	4.2Lbs, 67.7Oz (1921G)
Take Off Weight W/E50	4.2Lbs, 67.5Oz (1913G)
Take Off Weight W/E90	4.3Lbs, 70.3Oz (1995G)
Transmitter	ST16S Personal Ground Station

### ST16S

Battery	Li-Ion 3.6V 8700Mah (31.32Wh)
EIRP	FCC: 23Dbm Ce: 19.5Dbm
HDMI Type Output	HDMI V1.4a
LCD Screen Size	7"
Distance	Up To 1 Mile (1.6Km)
Operating System	Android™
Operational Temperatures	0°C - 40°C
Radio Control Modulation	Yuneec Protocol
Storage Temperature	-20°C - 60°C
Tactile and Audio Feedback	Yes
Transmitter Freq	2.4Ghz & 5.8Ghz
USB Power Output	5V
Video Link Resolution	720P

### Battery

Battery Output Power	304W
Battery Type	LIPO/EMC,Cb,Un38.3
Capacity	5250Mah
Charging Temp	10°C - 45°C
Configuration	4S0p
Max Charge Amperage	5A
Operating Temp	0°C - 60°C
Storage Temperature	-20°C - 60°C
Voltage	15.2V
Weight	580G