



The H520E-OFDM Hexacopter was specially developed for commercial drone applications and provides SAR ground teams, inspectors, police, fire brigades and surveying teams with a versatile tool.

The H520E-OFDM is a robust, powerful and flexible UAV platform that can be ideally adapted to individual requirements and thus enables a variety of industry-specific applications. Long flight times and high-quality camera systems with embedded GPS data allow an area to be recorded quickly and precisely, while the interference-free precision compass enables flying even in previously difficult-to-fly environments. In addition to the performance and flexibility, great emphasis was placed on the drone's flight and data security when developing the platform.

H520E Key Features:

- OFDM Technology for increased range and video stability
- Six-Rotor (Hex) - Safety, Stability and Reliability
- Interchangeable Cameras Using The New X-Mount System
- Up to 25 minute flight time
- New ST16E Ground Station - 7" HD Touch LCD with HDMI® output
- New OFDM DataPilot™ Mission Control Software System
- Ortho and Geo-mapping capabilities
- Waypoints System - easily designate an area for auto-surveillance/mapping
- Ultra-Quiet Operation



The H520E-OFDM was developed with the highest demands on safety and functionality. The 6-rotor system enables a stable and safe flight by ensuring that the H520E-OFDM can continue to fly safely even if a rotor fails. Built-in ultrasonic sensors allow the drone to detect obstacles and avoid collisions, while the battery issues battery warnings when the voltage is too low and finally changes to a fail-safe function. In addition, the H520E-OFDM is equipped with a redundant control signal, a return home and a geo fence function.

Product Specifications

Flight Time:	Up to 25 min (depending on payload weight)
Dimensions:	520x457x310 mm
Weight (with Battery, without gimbal):	1860g
Battery:	4S 6200mAh Li Ion
Remote Control:	ST16E
Maximum Flying Altitude:	500m
Max Take-off Above Sea Level:	5000m
Maximum Rate of Ascent:	5 m/s
Maximum Descending Speed:	3 m/s
Maximum Flight Speed:	20 m/s
Motors:	730 kV
Operating Temperature:	0°C - 40°C
Storage Temperature:	-10°C - 50°C



E90X CAMERA

ULTRA HIGH QUALITY IMAGING



The E90X is a wide-angle high resolution payload/camera for the H520E, Featuring a 1" CMOS sensor, capable of capturing 20MP stills and 100MBPs video (4K at 60FPS). The E90X features a a 90° FOV and a rolling shutter, ideal for mapping applications.

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E90X Key Features:

- 1" CMOS Sensor - 20MP Stills and 4K Video at 60FPS (100MBPs)
- 2D and 3D geo-mapping capabilities with H520E and Datapilot™
- Ultra High-Speed H2 Image-Signal Processing
- Choose between H.264 and H.265 (HEVC) Capture options
- 23mm High Precision Lens System
- Digital zoom up to 8x



The E90X's 1-inch sensor provides for greater dynamic range, increased sensitivity in low-light environments, and natural, deep colours suitable for capturing important details when performing ortho-mapping. The large 1" sensor, 10bit internal processing and a high precision 23mm lens combine to provide deep contrast 4K images and 20MP stills, making the E90X ideal for surveying and mapping.

Product Specifications

Focal Length:	23mm
Color Sensitivity:	RGB
Compression Bit Rate:	100Mbps
Compression Type:	AVC/HEVC
Digital Noise Reduction (DNR):	2D Filter
Effective Pixels:	20 Megapixels
Elements:	7G2P
FOV:	DFOV 91°
Framerate:	24/25/30/48/50/60/120
Fstop Range:	F2.8
Gimbal Axes:	3
Gimbal Control Accuracy:	± .02°
Gimbal Maximum Control Range:	TILT: -90° -15° PAN: 320°
Gimbal Maximum Control Speed:	TILT: 30°/s PAN: 120°/s
SO range:	100 - 6400
Max Video resolution:	4K 60FPS
Minimum SD card:	CLASS 10 u3
MTF:	104lp/mm, CENTER: 0.6, CORNER : 0.4
Sensor Size:	1 INCH CMOS
Shutter Type:	ROLLING
SNR:	ISO100, SNR 36db
Storage Temperature:	-10°C - 50°C
Operating Temperature:	-10°C - 40°C
Weight:	350 g



E20TVX RADIOMETRIC CAMERA H520E

640 X 512 THERMAL RESOLUTION



Dual Camera - The E20Tvx thermal radiometric imaging and RGB low light camera was especially designed for the YUNEEC H520E. With its multi-sensor compatibility, the E20Tvx offers search and rescue, firefighters, police and inspectors reliable and efficient air support. When searching for missing persons, the drone enables you to look for people very quickly from the air.

In the case of a fire, hot spots can be detected instantly, allowing fast and efficient countermeasures, which can save lives. When performing an inspection, all required details can be detected with the H520E 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.

Key Features:

- 640x512 323° FOV (6.3mm Focal Length) Thermal Radiometric infra-red camera and 1080P low light RGB camera combinable and recordable
- Dual video stream can be viewed picture-in-picture or overlay
- Adjustable scene range
- Up to 20 minutes flight time with the H520E
- Supports DataPilot and mission planning

Product Specifications

Dimensions:	115 x 80 x 130mm
Weight:	358g
Storage:	Micro-SD card

WWW.BCBIN.COM

Email: info@bcb.in

Tel: +44 (0) 29 2043 3700



DY5E DUAL CHARGER FOR H520E



Quickly and easily charge up-to two H520E batteries at the same time using the DY5E Dual Charger. Operating the system is simple - Insert the batteries into the battery compartments and the DY5E dual charger will start to charge your batteries automatically.

The DY5E is equipped with two separate colour screens which display charge time, cell voltage and real-time battery capacity. You can also charge additional devices such as the ST16E remote control via the integrated USB output.

The convenient "Storage" function prepares your battery cells for optimal storage conditions, especially helpful if you don't want to use your battery for some time.

- This charger may only be used for the H520E battery (#YUNH520EB4S6200)

Key Features

- Dual charger - fast charge circuit for rapid charging of H520E
- Dual TFT colour screen for displaying charge time, cell voltage, real-time battery capacity and capacity percentage Able to create an optimal storage capacity
- Storage function for discharging batteries to 3,85 volts. This feature is used for long-term battery storage
- AC current input 100-240V for global compatibility
- Protection against short circuit, over charging and high temperature
- USB output

Technical Specifications:

Dimensions:	178 x 177 x 65 mm
Weight:	790 g
Input Voltage:	100-240v AC
Charge Current:	3.0A x 2
Battery Cell Count:	4 Cell
Balancer:	400 mA/cell
Charge Output:	Dual Independent Output
USB Output:	5V / 2.0A