

# HEXTREME 550



## HexTreme 550 FPV Multirotor Hexacopter

Specifically designed with FPV in mind, the HexTreme 550 is the perfect solution for aerial photography and video. Like other Extreme Copter designs, the HexTreme 550 offers multiple mounting points on the airframe and battery tray to attach a fixed mount FPV camera and/or a stabilized camera gimbal. FPV Pilots will enjoy the flexibility and stability offered from this airframe. The Hi-Rise landing gear provides plenty of ground clearance for most medium sized DSLR or smaller camera gimbals and can be adjusted anywhere on the motor arms to provide excellent camera field of view while still providing a solid platform to land on. The battery tray will accept batteries as large as 40mm thick X 101mm wide. The HexTreme 550 FPV kit comes with prefabricated parts that make assembly a breeze and uses

high quality hardware. While the HexTreme 550 FPV is fun to fly, it is also reliable enough to be used on the job carrying significant payloads for a variety of uses. The HexTreme is at home flying in varied conditions and in winds up to 20+MPH. No matter the intended use, the HexTreme 550 FPV Hexacopter will provide an unparalleled flying experience.

### Suitable Uses:

- FPV (First Person Video)
- Stabilized Camera Platform
- Transport
- Sport Flying
- Surveillance
- Follow Me
- Utility

### Tested with these flight controllers:

- DJI Naza M w/ GPS
- DJI Naza M V2 w/ GPS
- DJI WooKong M
- 3DRobotics APM
- 3DRobotics PixHawk
- AutoQuad AQ6
- New Flight Controllers are being tested regularly

### Features:

- Frames are designed and made in the USA
- Designed to be assembled in either a "+" or "X" configuration to suite your intended flying style.
- Prop size: 8" to 10" supported
- Weight: 1385 grams without battery
- Battery: 3S To 4S (4S Recommended)
- Batteries up To 40mm thick in standard battery tray
- Motor To motor distance: 550mm
- Abundant frame area to mount optional FPV and other user equipment
- Designed for ease of assembly and repair
- Pre-installed motor wiring in arms for ease of assembly
- Includes a Power Distribution Board (PDB) with factory soldered ESC's and LED's
- The PDB and ESC's are located between frame and battery tray for protection.
- A full line of spare parts is available.



# HEXTREME 550

## Kit Includes:

- (1) Airframe including all factory CNC cut G10 parts, all pre-wired machined and anodized aluminum arms and all assembly hardware
- (4) Sets of Hi-Rise landing gear to provide the HexTreme with enough clearance for most optional camera gimbals
- (2) Transmitter mounting brackets for video and telemetry transmitters/transceivers
- (1) FPV camera mount designed to fit most optional FPV camera mounting brackets
- (1) GPS mounting plate designed to fit most optional GPS receivers
- (1) Huge battery compartment large enough to fit 40mm X 101mm battery packs or 2 half size packs for extended flight time.
- (6) 2212 – 980KV quality brushless motors
- (6) 25A Quality ESC's factory flashed with Simonk firmware and factory soldered to the included power distribution board (PDB)
- (6) 8" X 5 Quality, factory balanced props, (3) CW rotation props, (3) CCW rotation props
- (1) 8" X 3.5" Quality tinted canopy
- (2) Red LED strips with 6 LED's each, includes JST pigtail to connect to mating JST pigtail factory soldered to the included PDB
- (2) Blue LED strips with 6 LED's each, includes JST pigtail to connect to mating JST pigtail factory soldered to the included PDB

## Required to Complete:

- Flight Controller
- Receiver
- Batteries

## Replacement Parts List:

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
EXFPV-H001A	HEXTREME 550 MAIN LOWER PLATE
EXFPV-H002A_R1	HEXTREME 550 R1 UPPER MAIN PLATE
EXFPV-H003A_R1	HEXTREME 550 R1 BATTERY PLATE ASSEMBLY FOR X OR T AND 40MM BATTERY
EXFPV-H006A_R1	HEXTREME 550 R1 FPV CAMERA MOUNTING PLATE
EXFPV-H007A_R1	HEXTREME 550 R1 GPS MAST MOUNTING PLATE
EXFPV-PDB-BE	POWER DISTRIBUTION BOARD BASIC EDITION
EXFPV-HDOM	DOME ACRYLIC DOMES
EXFPV-ARM-262RAW	MULTICOPTER MOTOR ARM RED ANODIZED - 10MM x 10MM x 262MM ALUMINUM W/WIRE AND BULLET ASSM
EXFPV-ARM-262BAW	MULTICOPTER MOTOR ARM BLACK ANODIZED - 10MM x 10MM x 262MM ALUMINUM W/WIRE AND BULLET ASSM
EXFPV-LGHRA	MULTICOPTER HI-RISE GEAR LEG PAIR
EXFPV-RP10	FRAME RETAINER, 6 Pack
EXFPV-0805CFNP	8x5 MRP Carbon Fiber Normal rotation prop
EXFPV-0805CFRP	8x5 MRP Carbon Fiber Reversed Rotation Propeller
EXFPV-M980S	X2212-980KV SERIES BRUSHLESS MOTOR
EXFPV-25ZTW-RD	B-ZTW 25A BEC w/Simonk Firmware
EXFPV-WB14-200	14 AWG BLACK WIRE PER/FT – MAIN BATTERY WIRE
EXFPV-WR14-200	14 AWG RED WIRE PER/FT – MAIN BATTERY WIRE
EXFPV-MDC	MALE T CONNECTOR – MAIN BATTERY CONNECTOR
EXFPV-TXMTA	VIDEO TRANSMITTER MOUNTING PLATE
EXFPV-H004_R1	HEXTREME 550 R1 40MM LED MOUNTING PLATE
EXFPV-V50X8B	1/2" x 8" One-Wrap Velcro Straps, each
EXFPV-V05B	General Purpose Nylon Hook and Loop, 1/2" Width, Adhesive Back, Black per inch
EXFPV-EPB-9125	Pigtail Female JST Connectors, each
EXFPV-EPB-9124	Pigtail Male JST Connectors, each
EXFPV-LED-TR6	High Density R/C LED Flexible Strip-Red 6 LED'S
EXFPV-LED-TB6	High Density R/C LED Flexible Strip-Blue 6 LED'S
EXFPV-40CT	Standard Nylon Cable Tie 4" L, 7/8" Bundle Dia, 18# Tensile Strg, UV Black, each
EXFPV-55CT	Standard Nylon Cable Tie 5-1/2" L, 1" Bundle Dia, 50#Tensile Strength, UV Black, each
EXFPV-HW18	Socket Head Cap Screw Alloy Steel, M3 Thread, 18mm Length, 5 Pack
EXFPV-HW3N	Metric Zinc-Plated Steel Nylon-Insert Locknut, M3 Thread, 5 Pack
EXFPV-HN20	Metric Nylon Cheesehead Slotted Machine Screw Black, M3 Thread, 20 mm Length, 5 Pack
EXFPV-HN3N	Metric Black Nylon Nut M3 Thread, 5 Pack
EXFPV-HW22	Metric Socket Head Cap Screw Alloy Steel, M3 Thread, 22mm Length, 5 Pack
EXFPV-HW08	Metric Socket Head Cap Screw Alloy Steel, M3 Thread, 8mm Length, 5 Pack
EXFPV-HB20	Metric Button Head Socket Cap Screw M3 Thread, 20 mm Length, 5 Pack
EXFPV-HW50	Metric Socket Head Cap Screw Alloy Steel, M3 Thread, 50mm Length, 5 Pack
EXFPV-FS675	6MM x 3.2MM X 7.5MM SPACER, Black, 5 PACK
EXFPV-FS810	8MM x 3.2MM X 10MM SPACER, Black, 5 PACK
EXFPV-FS815	8MM x 3.2MM X 15MM SPACER, Black, 5 PACK
EXFPV-FS820	3.2mm x 8mm x 20mm Nylon Spacer-BLACK, 5 Pack

