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## CopterX CX450 Black Angel DFC Flybarless 2.4GHz RTF

The latest addition to the CopterX ready to fly helicopter lineup. The CopterX CX450 Black Angel DFC ready to fly helicopter. Now you can enjoy supreme performance of the CopterX Black Angel helicopter out of the box. All helicopter was individually tested and battery and fly! Equipped with CopterX CX-3X2000 flybarless gyro system. Combined with CopterX Black Angel 3D helicopters state of the art design. Make this ready to fly helicopter the best performance 3D ready to fly helicopter available in the market.

CX450BA DFC Features:

- CNC flybarless DFC rotor head system for unmatched 3D performance
- Over sized feathering shaft, screws, blade grip bearing, main shaft collar, etc. for maintenance free operation
- 240 reinforced swash plate for positive response
- One piece CCPM swash plate design for durability
- Simple DFC head design eliminate control arm for less weight and faster response time
- Short main shaft for quicker cyclic response
- Fully ball raced capable to handle head speed of over 3500rpm and tail speed for over 13600rpm
- Trusted bearing tail blade grip for ultra smooth operation during high rpm
- Direct tail drive system weight saving and quicker response
- Extra wide drive belt to ensure non slip and sensitive rudder control
- High strength nylon main gear for quite and smooth operation
- Precise high wear resistance aluminum alloy pulley set
- One piece carbon fiber main frame for strength and durability
- Light weight carbon fiber bottom plate, ESC mount, battery mount and anti rotation bracket
- High strength aluminum alloy tail boom look
- Aluminum alloy rudder servo mount
- Light weight one piece composite landing skid
- Aluminum alloy canopy mount
- Light weight high strength glass fiber airbrushed canopy

CX450BA DFC Specification:

- Length: 653mm
- Height: 240mm
- Main Rotor: 714mm
- Tail Rotor: 155mm
- Motor Gear: 12T / 13T
- Main Gear: 150T
- Autorotation Tail Drive Gear: 43T
- Tail Drive Gear: 10T
- Drive Gear Ratio: 1:12.5:4.3(12T) / 1:11.54:4.3(13T)
- Weight(without electric parts): 370g
- Weight(including electric parts): 760 - 800g
- Aluminium case dimensions: 710\*185\*320mm

CX450BA DFC Flybarless Main Rotor Head Features:

- CNC flybarless DFC rotor head system for unmatched 3D performance
- Over sized feathering shaft, screws, blade grip bearing, main shaft collar, etc. for maintenance free operation
- 240 reinforced swash plate for positive response
- One piece CCPM swash plate design for durability
- Simple DFC head design eliminate control arm for less weight and faster response time
- Short main shaft for quicker cyclic response
- Fully ball raced capable to handle head speed of over 3500rpm
- Extreme low CG and short main shaft design, dramatically reduces flight resistance, effectively improves 3D performance and speed
- New style linkage rod design, complete assembly increases linkage rod rigidity, allowing the pitch slider (follower) to be omitted, resulting in a head assembly that is much simplified and rigid
- The damper rubbers are manufactured utilizing POM material, sleek surface, with superior anti-wear characteristic
- Suitable for CopterX Black Angel / CX450AE V3 / CX450SE V2 / CX450PRO V3 / CX450PRO V4 flybarless system (need to upgrade CopterX (CX450DFC-01-02) DFC Main Shaft and ball link for different models.)

CX-CT6C Features:

- Pitch neutral trim
- Output standard 6 channel signal and support 2.4G system
- Support 3D fly mode, normal fly, idle 1 fly and idle 2 fly (in the idle mode)
- D/R for aileron, elevator, rudder
- Throttle hold function
- Gyro sensitivity adjustment
- Channel neutral position setting
- Channel reverse and channel servo travel adjustment
- Six models data memory
- LED will blink with alarming when the voltage is low

CX-CT6C Specification:

- Modulation: GFSK
- Channels: 6
- Frequency: 2.4GHz
- Working current:  $\leq 100\text{mA}$
- Weight: 654g
- Dimensions: 180\*85\*215mm

CX-CR6C Specification:

- Code format: PCM
- Channels: 7
- Frequency: 2.4GHz
- DC: 4.5-9.6V,  $\leq 30\text{mA}$
- Weight: 10.2g
- Dimensions: 41\*27\*13mm

CX-3X2000 Features:

- Processing time 50 times faster than previous model
- Lightweight design will work with lightweight EP to large nitro helicopter
- Can operate as stabilizing system for quad and aeroplane with optional CopterX CX-PB002 USB cable
- Simply press button setup with multi LED display for quick and easy setup
- CNC aluminum alloy casing for vibration free and durable operation
- Control by high performance micro processor for accurate control for all direction
- Highly tunable and will work with most popular servos in the market
- Built-in one button setup for easy setup and operation
- Optional program box and USB setup cable available for detail fine tuning

CX-3X2000 Specification:

- Operating Voltage: DC 3.5V-9V
- Operating Current: 60mA
- Operating temperature: -15°C -65°C
- Maximum angular rate: 800 degrees / sec
- Support the rudder servo: 1.52ms analog servo, 1.52ms digital servos, 760us digital servos, 960us Digital Servo
- Support the swashplate servos: 1.52ms analog servo, 1.52ms digital servo
- Radio compatibility: PPM, PCM, 2.4G
- Supporting firmware upgrade
- Supporting Multi-blade roto head, Quad, airplane
- Weight: 20g (including cable and plug)
- Dimension: 39\*26\*13mm

MG-D-9257-V2 Specification:

- Wire: 25cm
- Operating Voltage: 4.8v - 6v
- Operating Speed: 0.09sec/60° (4.8V) / 0.08sec/60° (6.0V)
- Stall Torque: 2.2kg-cm (4.8V) / 2.4kg-cm (6.0V)
- Pulse width: 1520us
- Working Frequency: 333Hz
- Size: 36 x 15.2 x 29mm
- Weight: 25g

CX-ESC-40A Specification:

- Cont. current: 40A
- Burst current(>10s): 55A
- BEC mode: Linear
- BEC output: 5V / 3A
- BEC output capability: 5 servos (2S Lipo) / 4 servos (3S Lipo)
- Battery cell: 2-3S (Lipo) / 5-9 cells (NiMH)
- Weight: 39g
- Dimension: 68\*25\*8mm

CX-B3 Specification:

- Cell count range: 2-3 cells
- Input voltage: 110-240V AC
- Max. charge current: 800mA
- Operational mode display: via 2 LEDs
- Weight: 94g (without power cord)
- Dimension: approx 99\*60\*27mm
- Box dimension: 118\*73\*61mm

Package Included:

- CopterX CX450 Black Angel DFC Flybarless Kit
- CopterX 2.4G Transmitter & Receiver
- CopterX (CX-3X2000) Flybarless 3 Axis Gyro System
- CopterX (CX-ESC-40A) 40A V2 Brushless Electronic Speed Controller
- CopterX (CX450-10-04) 430XL Brushless Motor (3550KV)
- CopterX (CX-9G) 9G Servo X 3
- Fusionsic (MG-D-9257-V2) 9257 25g Metal Gear High Speed Mini Digital Servo
- CopterX Balance Charger
- CopterX Li-Po battery 11.1V 15C 2200mAh
- Instruction manual and CD
- Full size aluminum case

- All helicopter were setup and tested by skilled technican before delivery
- As 2.4Ghz technology do not require any frequency contorl. Makes this mode a lot safer to operate and don't have to worry about bringing the wrong crystal to the flying field
- Design for EXPERT pilot