Main Features:

- Single blade for more flexible, fast flight and better wind resistance, fly outdoor or indoor.
- Features gyroscopic stabilization technology for smooth, easy-to-control flight.
- Easy to install and repair.

Specifications, material in this brochure are for reference only, any different please check with our website www.symatoys.com
Dear customer,
Thank you for buying SYMA’s product. For your quickly grasp the operating performance of this product, please read the instructions carefully and keep it.

**IMPORTANT NOTE**

1. This not a general toys, but a precision rc helicopter which is a combination of professional and technical as machinery, electronics, aerodynamics, and high-frequency transmitter. Please install it according to the instruction. We will not respond for any lost of mistake operation.
2. This product suit for everyone fly rc helicopter well and over 14 years.
3. Fly avoid drafts, forced air, water, strong fans heat and air conditioning vents.
4. Syma will not responsible for any issue cause by improper operation or using.
5. If you have any problem on operation, flight or repair, please contact our local distributor, we will provide technical support and after-sales service.

**WARMING**

Please keep flying helicopter away from crowd. The incorrect installation, improper operation and electronic equipment malfunction will cause the damage or injury. Please keep in mind of flight.
1. Please fly away from crowd or drafts.
2. Please avoid water or humid environments
3. Fly in correct according to the instruction.
4. Please avoid rotating parts in high speed and heat.
5. Please turn on/off the power as the instruction shows as below, incorrect operation will be dangerous even cause the injury.
Battery installation

Unscrew and remove battery cover from RC unit. Insert 4 ‘AA’ batteries, noting polarity indicators. Replace battery door cover.
ASSEMBLY OF BATTERY TO HELICOPTER

Step one: Open the controller, then controller ticking and indicator flashes quickly.

Step Two: Install the battery into the battery case, then set the helicopter on a level surface, indicator will flash two times the first slow, then indicator becomes to Medium-speed flash.

Step Three: Push the controller throttle to the top, and then pull it to the low-end, ticking sound once again, indicators on the helicopter and controller lighting up, which means that the success of the codes.

Precautions

1. When the indicator of controller is lit state, but the helicopter indicator is flashing, it means the helicopter fail to match the signal with controller. You need to turn off controller and helicopter and turn on them again to match signal.

2. When the helicopter fail to hover and always turn around, please re-start the controller and helicopter.

3. Make sure the battery installed into the helicopter well within 10 seconds when the controller opening, or you can not complete the code.

4. Indicator on the helicopter lights off or lights flashing when the helicopter crashing obstructions.
Remote Control Keypad and LCD Manual

1. Strife fine-tuning: Power-on start in the centering. (Be Turn Left/Right Fine-tuning in Mode 2)
2. Forward/backward fine-tuning: Power-on start in the middle.
3. Turn Left/Right fine-tuning: Power-on start in centering. (Be Strife Fine-tuning in Mode 2)
4. Throttle lever fine-tuning: Power-on start in the middle.
5. Throttle shows: Power-on start in lowest level. (Left and right throttle shows at one time)
6. Forward shows: Power-on start in the lowest level. (At the center square)
7. Left Strife shows: Power-on start in the lowest level. (At the center square)
8. Backward shows: Power-on start in the lowest level. (At the center square)
9. Right Strife shows: Power-on start in the lowest level. (At the center square)
10. Turn left: Power-on start in zero.
11. Turn right: Power-on start in zero.
12. High speed mode: Power-on without display "H".
13. Low speed mode: Default mode when power-on with "L". (Change to H mode when press button "B").
14. Power shows: According to the battery's energy for the controller.
15. MODE 1: Default mode when power-on. (Suitable for right-handed) In MODE 1, turn left/right controlled by left lever, Strife controlled by right lever.
16. MODE 2: Push the button "A" to right to change MODE 1 into MODE 2 (Suitable for left-handed). In MODE 2, Strife controlled by left lever, turn left/right controlled by right lever.
17. Signal shows: Normally to full frame.
18. Mini helicopter shows when power on with on function now.
Push the throttle up or down, the helicopter flies up ward or downward.

Push the direction control rod up or down, the helicopter flies forward or backward.

Push the direction control rod left or right, the helicopter flies left or right.

Push the throttle left or right, the helicopter flies left or right.

While helicopter is descending, push the fine-tuning button up. While helicopter is ascending, push the fine-tuning button down.

While helicopter moves forward, push the fine-tuning button down. While helicopter moves backward, push the fine-tuning button up.

While helicopter turns left, push the fine-tuning button right. While helicopter turns right, push the fine-tuning button left.

While helicopter strifes left, push the fine-tuning button right. While helicopter strifes right, push the fine-tuning button left.
HELICOPTER CONTROL ILLUSTRATION (MODE 2)

Operation Direction

Push the throttle up or down, the helicopter flies upward or downward.

Push the direction control rod up or down, the helicopter flies forward or backward.

Push the throttle left or right, the helicopter flies left or right.

Push the direction control rod left or right, the helicopter flies left or right.

Fine-tuning Operation

While helicopter is descending, push the fine-tuning button up. While helicopter is ascending, push the fine-tuning button down.

While helicopter moves forward, push the fine-tuning button down. While helicopter moves backward, push the fine-tuning button up.

While helicopter strifes left, push the fine-tuning button right. While helicopter strifes right, push the fine-tuning button left.

While helicopter turns left, push the fine-tuning button right. While helicopter turns right, push the fine-tuning button left.
**CHARGING BATTERY**

1. Remove batteries from the package
2. Insert them into battery charger base
3. Insert one end of USB charging cable into the base, the other into a computer USB port or Insert USB charging cable into A/C adapter (not included)
4. Look for red charging indication light on the charger base, the light turns off when fully charged
5. Charge time: 50-60 minutes
   Flight time: about 6 minutes

**Precautions of charging**

1. Please charger the helicopter in dry, ventilated place, keep away of heat and explosive materials.
2. To avoid injury, please move out the battery from helicopter than charge it and never leave it alone.
3. To avoid battery damage and any accident, do not charge the warm battery right now after the flight.
4. To avoid the battery short-circuit, please keep the charging battery on a horizontal surface and avoid dropping.
5. Please use the USB cable supplied by SYMA and change the aging battery.
6. To avoid the battery repeating the charging and discharging automatically please move out the battery from the charge basic in time

**BATTERY MAINTENANCE**

1. Keep the battery in dry, ventilated place, keep away of heat.
2. To avoid damage, do not excessive discharge.
3. Before long-term storage, please keep the battery in 50%~60% power.
4. If you stop use the battery more than one month, please check the battery every month.

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**Tips:**

1. Charging from computer USB port, please pull out USB cable and remove the batteries from charger base before turn off computer.
2. Please connect the charger base and batteries in correct.
EXAMINING PROCESS

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Offering solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helicopter not work</td>
<td>1. Helicopter’s battery is low.</td>
<td>1. Charge the helicopter.</td>
</tr>
<tr>
<td></td>
<td>2. Controller’s batteries are low, the indicator will keep flashing.</td>
<td>2. Replace the remote controller’s batteries.</td>
</tr>
<tr>
<td></td>
<td>3. Failure to match the band from remote controller.</td>
<td>3. Turn off the helicopter and match the band again.</td>
</tr>
<tr>
<td></td>
<td>4. The built-in gyro failure to work.</td>
<td>4. Turn off helicopter and put it in a horizontal position than turn on again, also the gyro will restart.</td>
</tr>
<tr>
<td>Helicopter Slow to response</td>
<td>1. Sunlight or strong light causes adverse affects.</td>
<td>1. Fly the helicopter without strong light.</td>
</tr>
<tr>
<td></td>
<td>2. Similar frequency remote controller interfere with each other</td>
<td>2. Fly the helicopter beyond the similar frequency.</td>
</tr>
</tbody>
</table>

Spare parts (For Choose & buy)

All the spare parts below, you could buy from the local distributor.

- F3-01A Head cover A
- F3-01B Head cover B
- F3-01C Head cover C
- F3-02A Tail decoration A
- F3-02B Tail decoration B
- F3-02C Tail decoration C
- F3-03A Main blade
- F3-03B Tail blade
- F3-04 Main shaft
- F3-05A Balance bar
- F3-06 Landing gear
- F3-07 Gear
- F3-09 Main shaft basic
- F3-10 Wobbler
- F3-11 Tail motor set
- F3-12 Main motor
- F3-13 Battery
- F3-14 Circuit board
- F3-15 USB charge wire
- F3-16A Charger base
Main blade Diameter: 190 mm
Body length: 230 mm
Body width: 55 mm
Body height: 90 mm
Main motor size: ø8.5
Tail motor size: ø6
Battery: 3.7V / 150 mah
Gyroscope: Lock gyro