S022
R/C HELICOPTER USING INSTRUCTION

1. Intelligentized R/C system.
2. Full scale remote control.
3. 360° exact directional.
5. Newly designed electricity saving function.
6. Safeguard battery model to prolong the uses life.

Please read the instructions carefully before use. (Please read the notice in details.) Please retain the instructions for future reference.
INCLUDED PARTS NAME

ASSEMBLY TRANSMITTER

1. Install antenna: Remove antenna into controller clockwise. See Fig. 1
2. Install batteries: Open the cover of battery case, insert 4 batteries (size 1.5V AA) properly followed by polar indicator. (batteries to be purchased).

NOTICE:
1. Install the battery must recognize the battery and battery box is precise.
2. Do not mix new and old batteries together when in use.
3. Please don’t mix different types of batteries when in use.

Fig. 1

Fig. 2
POWER BATTERIES CHARGING INSTRUCTION

Charge for the power battery:
1. Plug the DC 10V output jack of adapter to the input jack of charge box, the red indicator will light up at the time.
2. Insert the three feet plug of battery to output port of charge box (As follows diagram), and the green indicator soon shining, when the green indicator put out, the battery capacity will achieves 100% it shows that the recharging finishes. (Note: when install the batteries to the charge box and the green indicator does not change, kit means that the batteries are fully recharged.)

Attention:
1. Make sure the voltage and connector plug of adapter tally with the local charging standard.
2. The battery pack will become warm when charging excessively. It is harmful for the battery pack and would even make the battery pack damaged, please stop charging under this situation.
3. Player should stand aside as the plane in the process of charging.
4. This adapter adopted the advanced balance charging model for safety, please do not use other type of adapter un order to avoid explode.
5. The battery pack would become very hot when the plane finish flying, please wait at least 30 minutes for continue charging in order to protect the battery pack.
6. Do not throw the battery pack into fire for avoid explode.

WARNING
When you are tied of playing, please pull out the connecting plug to avoid the battery overdischarge. If the linker keeping to connected, it may cause the overdischarge as the battery long time power wasting.

ENVIRONMENT FOR FLIGHT

1. Fly on windless asunny day.
2. Do not fly in extreme temperature.
   - Do not fly in temperature above 113 degrees fahrenheit/45 degrees centigrade, or below 50 degrees fahrenheit/10 degrees centigrade.
   - Flying in extreme heat and/or cold will affect performance and may damage the model.
3. Do not fly in strong wind.
   - Windy conditions will limit or disturb the flying control.
   - In very windy conditions, your helicopter may become lost and/or damaged.
4. Select a large, wide-open area for flying, and make sure that there is no obstructions, animals or people nearby.
## CONTROL METHOD

<table>
<thead>
<tr>
<th>Ascend</th>
<th>When you push up the left stick (throttle stick), the spinning speed of the main rotor blade is increase and the helicopter begin to ascend.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Descend</td>
<td>When you pull down the left stick (throttle stick), the spinning speed of the main rotor blade is decrease and the helicopter begin to descend.</td>
</tr>
<tr>
<td>Steering</td>
<td>1. When the right stick (rudder stick) is moving to left, the head of the helicopter turns to left. 2. When the right stick (rudder stick) is moving to right, the head of the helicopter turns to right.</td>
</tr>
<tr>
<td>Forward</td>
<td>When you push up the right control lever (steering rudder), the nose incline to down, the helicopter is moving forward.</td>
</tr>
<tr>
<td>Backward</td>
<td>When you push down the right control lever (steering rudder), the nose incline to up, the helicopter is moving to backward.</td>
</tr>
</tbody>
</table>
SPECIAL TIPS

In preparation for take-off, the aircraft must be a smooth adjustment:
1. You can use the forward/backward inching switch to balance, you can be observed that the focus of the direction of the aircraft, during the swing back and forth is the bigger (Fig. 1), you can use the forward/backward coarse to balance.

1. If head of helicopter rotates anticlockwise, continuous slowly touch the right fine-turn button to control the helicopter.

2. If head of helicopter rotates clockwise, continuous slowly touch the left fine-turn button to control the helicopter.

NOTICE:
When the airplane away from the ground in 30cm position, the helicopter will suffer by itself blade vortex to became unstable, we call it “effect response”, when the helicopter weight lower, and the “effect response” affect will be bigger.
# TROUBLE SHOOT AND DEALING WITH

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>CHECK THIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller doesn’t work</td>
<td>1. Controller’s power switch is off.</td>
<td>1. Turn power switch on.</td>
</tr>
<tr>
<td></td>
<td>2. Insert batteries into controller</td>
<td>2. Confirm batteries be inserted according to</td>
</tr>
<tr>
<td></td>
<td>improperly.</td>
<td>their pole.</td>
</tr>
<tr>
<td>Can not control the</td>
<td>1. You haven’t turn on the controller</td>
<td>1. Turn controller power switch on.</td>
</tr>
<tr>
<td>helicopter</td>
<td>power.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Doesn’t turn on helicopter’s</td>
<td>2. Turn helicopter’s power switch on.</td>
</tr>
<tr>
<td></td>
<td>power switch.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Doesn’t wrest antenna into controller</td>
<td>3. Wrest antenna completely and pull it out.</td>
</tr>
<tr>
<td></td>
<td>completely, or antenna isn’t fully pulled</td>
<td></td>
</tr>
<tr>
<td></td>
<td>out.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. You play the helicopter in strong winds</td>
<td>4. Do not play the chopper in winds, which can</td>
</tr>
<tr>
<td></td>
<td>weather.</td>
<td>confuse your control.</td>
</tr>
<tr>
<td></td>
<td>5. The indicator light of controller is</td>
<td>5. Pulling the power control rod upwards, then</td>
</tr>
<tr>
<td></td>
<td>twinkled.</td>
<td>again return to pulling to the lowest, or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>change battery.</td>
</tr>
<tr>
<td>Helicopter can not rise</td>
<td>1. Main rotor blades rotate too slowly.</td>
<td>1. Pull up the throttle stick.</td>
</tr>
<tr>
<td></td>
<td>2. Doesn’t fully charge helicopter’s</td>
<td>2. Full charge helicopter battery. (see</td>
</tr>
<tr>
<td></td>
<td>battery.</td>
<td>instruction above).</td>
</tr>
<tr>
<td>Helicopter land too fast</td>
<td>You loose the throttle stick or pull it</td>
<td>Slowly pull down the throttle till the</td>
</tr>
<tr>
<td></td>
<td>down too fast.</td>
<td>chopper landing smoothly.</td>
</tr>
</tbody>
</table>

## CAUTION

1. The control distance will be shorter when the quantity of electricity is not full.
2. When the quantity of the electricity of the helicopter is not full, the helicopter will launch difficulty or the height of fly is not enough.
3. If the helicopter become damaged, deformation, please repaired in time. If the rotor damaged or broken, do not fly, otherwise, it will lead to injury.
4. If you don’t use the transmitter for a long time, Remove all batteries out, in order to avoid the battery leakage to damage this product.
5. Don’t drop the helicopter from high position or crash it seriously, because that will damage it seriously or shorten the using time.
6. Before flight, always turn on the power switch on the controller and then turn on helicopter, otherwise the radio signals of helicopter will be in confusion.
7. After flight, always turn off the power switch on the helicopter and then turn off the controller, otherwise the radio signals of helicopter will be mixed up and you will lose control to your model.
PARTS ARE ALTERNATIVE

S022-01 Plastic body
S022-02 Front main frame
S022-03 Rear main frame

S022-04 Airplane ex-window
S022-05 Connect buckle
S022-06 Main blade A
S022-07 Main blade B

S022-08 Gear A
S022-09 Gear B
S022-10 Battery base

S022-11 Front main axis A
S022-12 Rear main axis B

S022-13 Front inner shaft A
S022-14 Rear inner shaft B
Changes or modifications not expressly approved by the party responsible for compliance could void the use's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
S022
遥控直升機使用說明書

1. 智能化控制系統
2. 全比例遥控
3. 360度準確定向
4. 平穩懸空性能
5. 新研發節電功能
6. 呵護電池模式、延長使用壽命

使用前請先完整閱讀說明書（注意部分請詳細閱讀）
保存好此說明書以供日後使用參照
組裝遙控器

1. 天線的安裝：將天線順時針轉動裝入遙控器的天線終端螺絲柱上。如圖1
2. 電池的安裝方法：打開遙控器背面的電池蓋，依照電池箱的電極指示正確地放入4粒5號電池（電池須另購）。如圖2

注意：
1. 裝電池時必須正確正負極與電池盒的正負極，切不能裝反。
2. 請勿混合使用新舊電池。
3. 請勿混合使用不同種類的電池。
動力電池充電使用說明

為動力電池充電:
1、將適配器直流10V輸出口插入電池盒輸入插座，這時充電盒上的紅燈亮。
2、將動力電池三腳插頭插入充電盒輸出端上（如下圖），這時綠燈亮起；
當綠燈熄滅時，動力電池電量達到100%，這時充電結束。（注意：如果動力電池插到充電盒上，綠燈無變化時，這表示該電池為滿電，不需再充電）

注意:
1、確保充電器的電壓和插頭符合當地的標準。
2、充電時，如電池過熱，表示過份充電，對電池有損害，嚴重時造成電池永久損壞。
請立即停止充電。
3、充電時，人員切勿離開。
4、本充電方式採用先進的平衡充電方式，為安全充電方式，不要隨便改用其它充電器為動力電池充電，以免發生爆炸的危險。
5、在飛機剛剛完成飛行時，電池溫度較高，最好等待30分鐘左右待電池冷卻後再給動力電池充電，否則會損壞電池。
6、不要把電池投入火裏，
以免發生爆炸
的危險。

警告

如果不飛行此直升機的
時候，請把開關拔向OFF以
防電池過放電，如果連接器
保持連接的話，有可能會因
長時間的電量消耗而導致過
放電。

充電時間
約為60分鐘

飛行前環境

1、在溫暖晴朗無風的天氣飛行
   1 切勿在氣溫極端的天氣飛行
      切勿在温度高于華氏113度天氣飛行；
      在過熱或過冷的天氣下飛行會影響飛行效果或損壞模型。
   2 切勿在強風的天氣飛行
      強風會對飛行造成局限或會妨礙你的飛行控制；
      在強風的情況下飛行，你的直升機會不知所從或令它損害。
2、選在室內寬敞處飛行，井請確認附近有無障礙物、寵物及人。
<table>
<thead>
<tr>
<th>操縱方法</th>
<th>上升</th>
<th>下降</th>
<th>轉向</th>
<th>前進</th>
<th>後退</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>當左操縱杆（油門）向上推，主旋翼轉速增大，直升機升高。</td>
<td>當左操縱杆（油門）向下推，主旋翼轉速減慢，直升機下降。</td>
<td>當右操縱杆（轉向舵）向左推，直升機機頭向左轉。向右推，直升機機頭向右轉。</td>
<td>當右操縱杆（轉向舵）向上推，直升機機頭向下。直升機向前前進。</td>
<td>當右操縱杆（轉向舵）向下推，直升機機頭向上。直升機向後後退。</td>
</tr>
</tbody>
</table>
特別提示

在飛機準備飛行前，先要對飛機進行平穩調試：
1、慢慢將油門向上推，以飛機離開地面為宜，
可以觀察到飛機的重心方向，如果前後擺動
比較大的時候（如圖1）可以調前進後退微
調來平衡它。

注意

當飛機在離地面30cm的位置，
直升機會受到自身槳葉渦流
的影響而變得不穩定，這就
叫“地效反應”當飛機離地
面越低時，地效反應的影響
越大

2、當直升機機頭逆時針打轉時，可連續按動右邊方向舵微調按鈕，直到直升機
不打轉爲止。

3、當直升機機頭順時針打轉時，可連續按動左邊方向舵微調按鈕，直到直升機
不打轉爲止。

右邊按鈕
左邊按鈕
## 解決問題指引

<table>
<thead>
<tr>
<th>問題</th>
<th>原因</th>
<th>處理方法</th>
</tr>
</thead>
<tbody>
<tr>
<td>遙控器沒有電源</td>
<td>1、開/關掣在“OFF”位置。</td>
<td>1、開/關掣在“ON”位置。</td>
</tr>
<tr>
<td></td>
<td>2、沒有正確電極指示放入電池。</td>
<td>2、檢查和確認電池是否依照電池箱所指示的正負極放入。</td>
</tr>
<tr>
<td></td>
<td>3、電池已耗盡。</td>
<td>3、更換全新的電池。</td>
</tr>
<tr>
<td>不能遙控</td>
<td>1、沒有開啓遙控器。</td>
<td>1、把遙控器開/關掣拔向“ON”位置。</td>
</tr>
<tr>
<td></td>
<td>2、直升機開/關掣在“OFF”位置。</td>
<td>2、把直升機開/關掣拔向“ON”位置。</td>
</tr>
<tr>
<td></td>
<td>3、沒有旋緊遙控器的天線或天線未完全伸長。</td>
<td>3、確保把銀色的天線擰入遙控器中和完全伸長。</td>
</tr>
<tr>
<td></td>
<td>4、風力太大。</td>
<td>4、切勿在有風的情況下飛行。有風會對飛機造成困擾，或會妨礙你的控制飛行。</td>
</tr>
<tr>
<td></td>
<td>5、遙控器指示燈閃爍。</td>
<td>5、將操縱杆拉到底或更換電池。</td>
</tr>
<tr>
<td>直升機不能升</td>
<td>1、旋翼轉動速度太慢。</td>
<td>1、動力操縱杆向上推。</td>
</tr>
<tr>
<td>高</td>
<td>2、直升機尚未完全充電。</td>
<td>2、為直升機完全充電。</td>
</tr>
<tr>
<td>直升機很快著</td>
<td>你太快的將油門操縱杆拉回。</td>
<td>慢慢地回拉功率操縱杆讓直升機慢慢著陸。</td>
</tr>
<tr>
<td>陸</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 注意事項：
1. 遙控器或直升機的電量不足時，遙控距離會受影響而距離較近。
2. 若直升機電量不足會出現飛行高度不夠或起飛困難。
3. 若直升機出現破損，變形請及時修復，嚴重者如旋翼斷裂破損切勿飛行否則會導致受傷。
4. 長期不使用請將遙控器的電池取出，以免電池漏液造成對本產品的損壞。
5. 切不能讓直升機高空墜機或嚴重碰撞，這樣會損壞直升機或縮短直升機壽命。
6. 開始飛行時，先打開遙控器的電源開關，再打開飛機的電源開關，否則飛機會受到外來信號干擾。
7. 結束飛行時，先關掉飛機的電源開關，再關掉遙控器的電源開關，否則飛機會受到外來信號的干擾而失控。