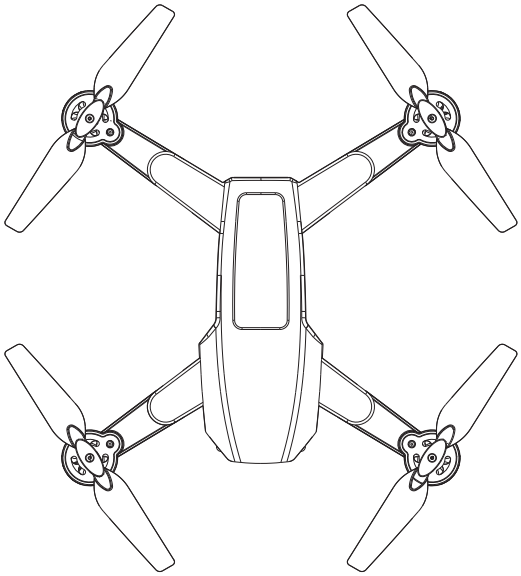
TOPRCBOXS

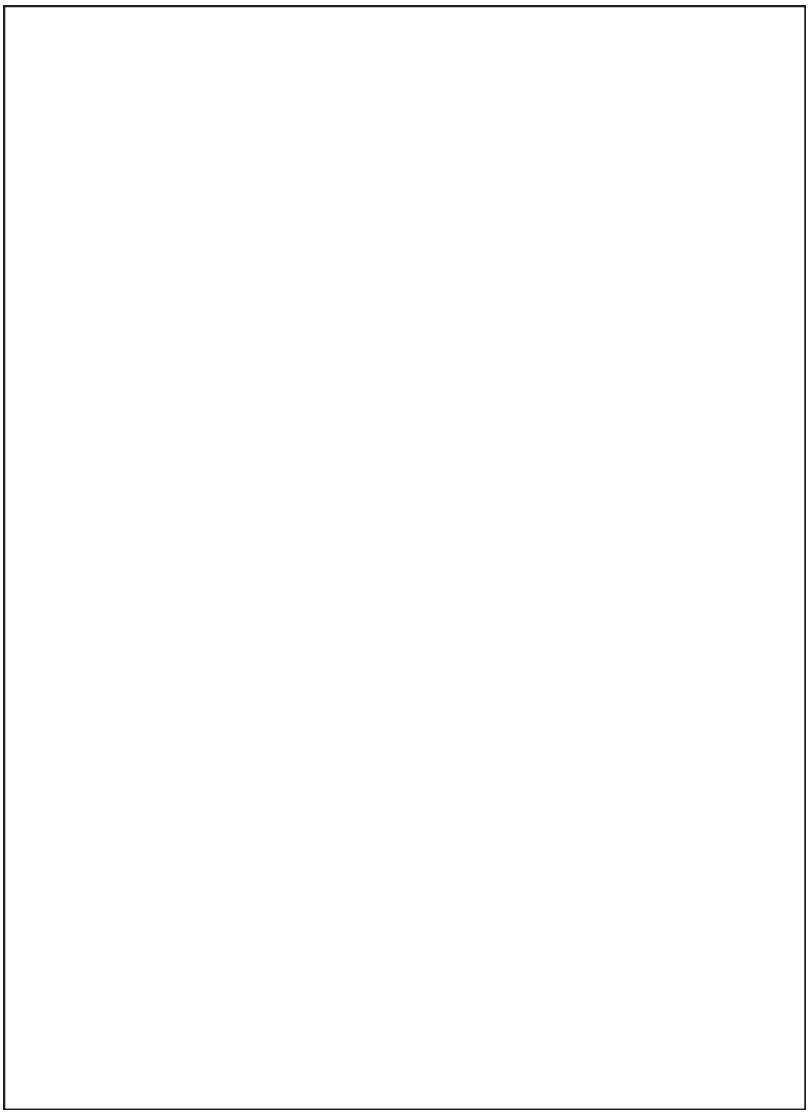
(EN1)



S1 Drone

USER MANUAL

support_us@toprcboxs.com (USA,CA,AU)
support_eu@toprcboxs.com (EU)



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DISCLAIMER & SAFETY GUIDELINES

Please read the disclaimer carefully before using this product. By using it, you hereby agree to this disclaimer and signify that you have read them fully.

1.FLIGHT ENVIRONMENT:

Fly in open areas **Maintain line of sight** **Fly below 98 feet(30m)**

2.DO NOT fly above or near obstacles,crowds,cars,open water, public road,high voltage power lines,trees or airport.

3.DO NOT fly the drone in the magnetic interference area,radio interference area, and government regulated no-fly zones.

4.DO NOT use this product in severe environments such as rain,snow, fog and windy, etc.

5.Please always stay away from the rotating propellers and motors.

6.Always keep small parts and electrical parts out of the reach of children.

7.The charger is not a toy. Only use the original charger provided.

8.Battery charging should be done in a location out of reach of children. When charging it must be kept away from flammable materials such as bed,carpet,wood floors etc.,

9.DO NOT reverse polarity or puncture batteries. DO NOT store the batteries near any heat source.

10.Dispose of the drone and batteries in accordance with local regulations. DO NOT treat it as household waste.

TOPRCBOXS accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product. The user shall observe safe and lawful practices including, but not limited to, those set forth in these Safety Guidelines.
TOPRCBOXS reserves the right to update this user manual.

MAINTENANCE AND CARE

1:Check thoroughly (take note the propellers) everytime after a crash or violent impact.

2:Before the first fly, learn how to apply the "Emergency Stop" function, which is in page 11 of this manual.

3: Do not charge the battery if it is hot. Let it cool down first.

4: If you do not plan to use your drone for an extended period of time, remove the batteries from the controller to avoid battery leakage, which may damage the controller.

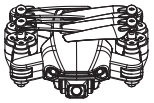
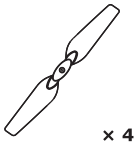
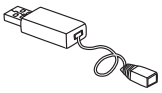
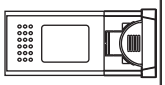
5: Keep the drone and the controller in a location where is cool and dry, and avoid long time exposure to direct sunlight.

6: Please give your drone a minute cool down time after each flight, to increase the durability of the drone.

Specifications

Max Flight Distance: 330 feet/ 100m (outdoors and unobstructed)
Transmission Distance:About 196feet/60m(outdoors and unobstructed)
Flight Time: About 15 mins
Charging Time: About 80 mins
Mobile APP Requirement: Android 5.1 and later,
IOS 9.0 and later

Package Contents

 × 1	× 1	 × 4	 × 2
Drone	Controller	Spare Propellers (A× 2, B × 2)	USB Charger
× 4	 × 2	× 1	
Propeller Guard	3.7V 1800mAh Lipo Battery	Screwdriver	

Video Tutorial

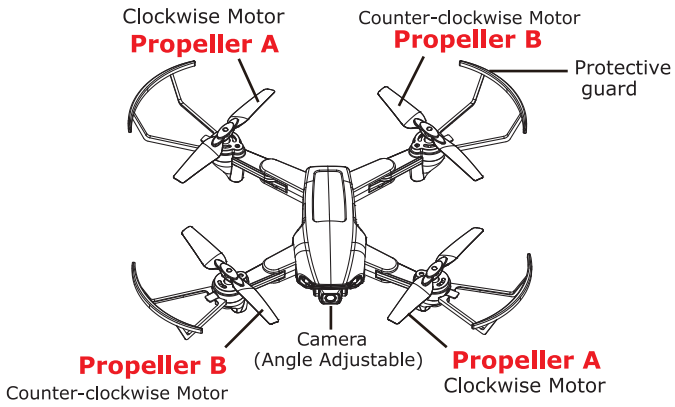
Please download the APP "S1 FPV" or scan the code to watch our S1 drone tutorial video.

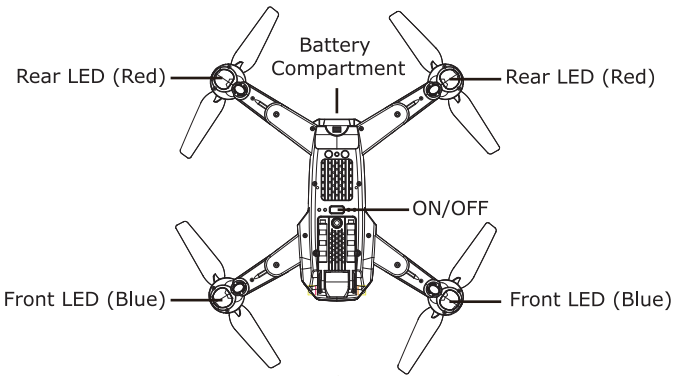
Available on the APP store

Available on the Google play

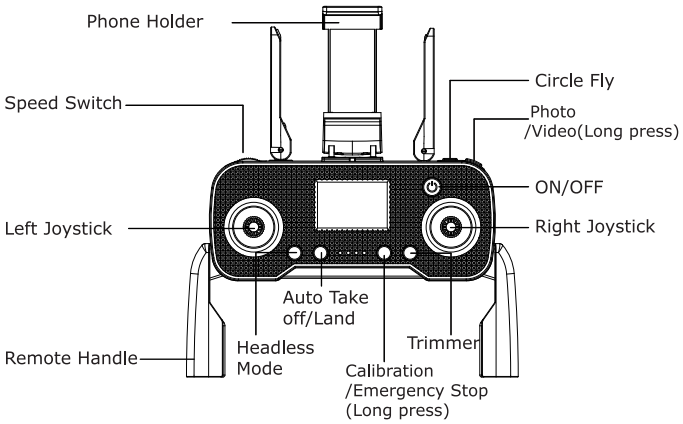
Please do not hesitate to contact us if you need further support.

Drone Diagram

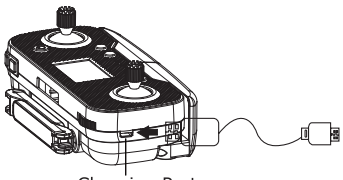


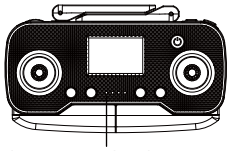


Controller Details & Charging the Controller



Important Note:
*When the remote controller continuously emits the sound of DI..DI..DI~, and the indicator lights on the controller blink continuously it may a alarm showing it is running out of battery, please replace the battery of the remote controller.
*Plug the USB charging cable into a USB charging port on the computer, power bank or USB adapter (5V/0.5-2A).
*Please always use the usb cables provided.
*Charging Time of the Controller (Full Charge): about 45 mins.

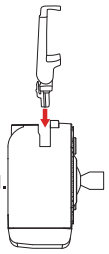

Charging Port


Charging: Red Light on
Charge Complete: Red Light Turn off.

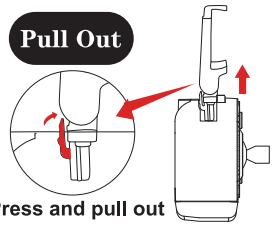
Phone Holder

Insert

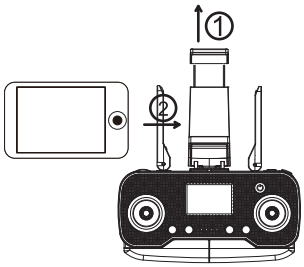
Insert the phone holder, a click sound will be heard.



Pull Out



Press and pull out



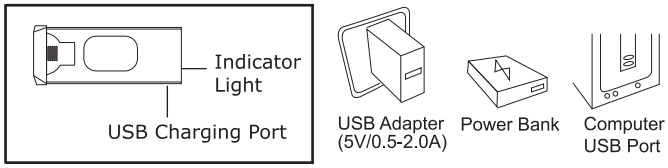
Trimmer

Press the Trimmer button to enter the Trimmer mode.(it will emit a beep sound) Now you can push the right joystick to re-balance the drone. Pressing the Trimmer button again to exit the Trimmer mode. (it will emit a beep sound)
"Trimmer mode" needs to be turned off to regain control of the drone

F/B Sideways Drift Trim: If the drone tends to drift forward,press the Trimmer button to enter and push the right joystick down to re-balance the drone.If the drone tends to drift backwards,press the Trimmer button to enter and push the right joystick up to re-balance the drone.Press the Trimmer button again to exit the mode (It will only trim a bit when press once. Press more times to adjust until the drone stays oriented at the control)

L/R Sideward Fly Trim: If the drone tends to drift left,press the Trimmer button to enter and push the right joystick right to re-balance the drone.If the drone tends to drift right,press the Trimmer button and push the right joystick left to re-balance the drone.Press the Trimmer button again to exit the mode (It will only trim a bit when press once. Press more times to adjust until the drone stays oriented at the control.)

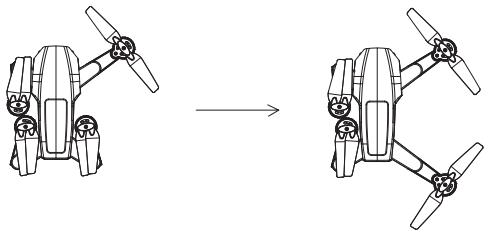
Charge the Drone Battery



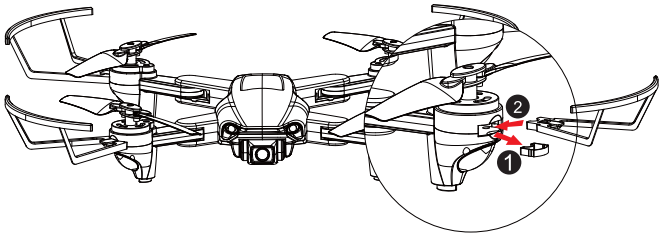
Important Note:
* When the drone battery runs low. the indicator lights on the drone will blink continuously and the controller will emit "DI DI DI~".
At this time the drone will land automatically after about 60 seconds.
* Plug the USB charging cable into a USB charging port on the computer,power bank or USB adapter (5V/0.5-2A).
* Please always use the usb cables provided.
* Charging: red light turn on
* Charge Complete: green light turn on.
* Charging Time (Full Charge): about 80 mins.
* Flight Time: About 15 mins.

Unfold the Drone

1: Unfold the front arms, then the rear arms.

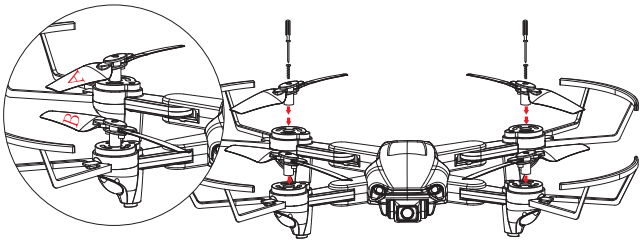


Propeller Guard Installation



1.Remove the small plastic chip from the rotor shell.
2.Insert the propeller guard into the rotor shell.

Propeller Replace Guide



1. Loosen the screw to remove the propeller.
2. Fit the spare propeller into the drone.
3. Tighten the screws.

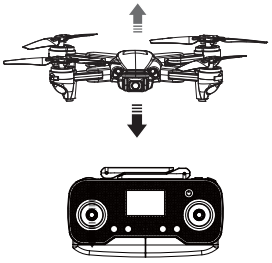
IMPORTANT NOTE: Every propeller has indicated alphabet A and B. Please install the propellers in correspondence with propeller A and propeller B as shown above. Otherwise the drone will fail to take off.

Tip:If the drone flying not stable after crashed or dropped. Please replace all damaged propellers.

Flight Instruction

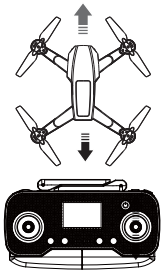
Important note:For beginners, we would recommend the tail of the drone to face towards the pilot, so can better recognise the flight orientation and make operation easier.

Elevation



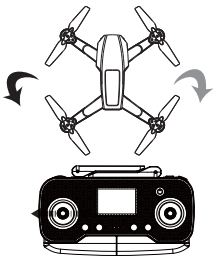
Ascend: Push up the left joystick
Descend: Pull down the left joystick

Forward and Backward



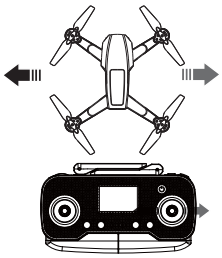
Forward: Push up the right joystick
Backward:Pull down the right joystick

Turning



Turn Right: Push the left joystick to the right
Turn Left: Push the left joystick to the left

Sideways

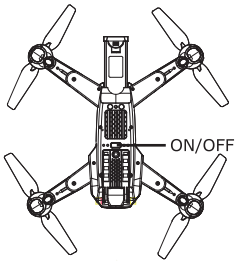


Fly to the Right: Push the right joystick to the right
Fly to the Left: Push the right joystick to the left

Battery Installation - Drone

Install the battery into the drone after it's fully charged. Please push the battery to the end. Long press the ON /OFF button to start.

Note: You may refer to our tutorial video for reference.



Linking Controller with the Drone

1.Turn on the drone first, then place it on a flat surface with the head forward. (the LEDs on the drone flash).
2.Turning on the controller. The controller will emit "DI DI" sound when turning on.The LED of the drone will go from flashing to solid, indicating that the controller and the drone is now paird.

Important Note:

1:Please make sure that the drone is placed on leveled surface otherwise it will fail to pair with the controller.

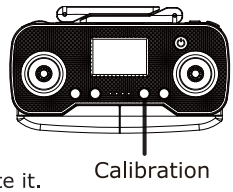
2:Please ensure the power of the drone has been turned on before turning on the controller. Otherwise it cannot be paired successfully.

3:If the drone keep blinking and fail to take off after powering on the controller, it means it's under low battery. Please charge it.

4:If fails to pair, please turn off the drone and the controller, and repeat steps.

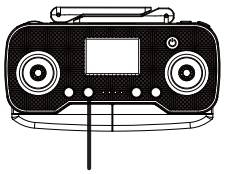
Calibrating the Drone

Press the calibration button and the indicator on the drone will start flashing. Wait until the indicator stops flashing. It is now completed.



Note:If the drone flying not stable,Please land the drone on level surface and calibrate it.

One Key Auto Take-off / Land

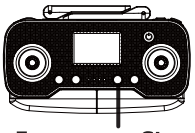


Auto Take off /landing

TAKE OFF: After the linking and calibration, Press this button and the drone will start taking off and hovering in the air.
LAND: While in the air, press the same button and the drone will land automatically.

Note: Press the One Key Take-off button, the drone will fly up and hover at about 1.5 meters height. Please place the drone on the flat surface with enough climbing space before taking off.

Emergency Stop



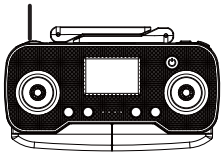
Emergency Stop (Long Press)

In an event of an emergency where the drone needs to be stopped immediately, **LONG PRESS** the button and the drone will stop immediately.

Note: When using Emergency Stop function, it will cause the drone in the air to fall from the sky.

Mode of High/Medium/Low Speed

Speed Switch



By default, the drone is set at low speed level. To speed up, dial the wheel right and it will emit "beep beep" sound, indicating it is at medium speed level. Dial the wheel right again and it will emit "beep beep beep" - High Speed Level.

Altitude Hold Function

The drone is designed with altitude-hold function so the drone can maintain its altitude after you release the left joystick. (The left joystick will automatically spring back to the middle)

Circle Fly

Circle Fly: During the flight, press the circle fly button, the controller will make a "DI" sound which indicates that the drone enters the circle fly. This drone will exit the circle fly function automatically 10 seconds after, and you can also push the direction joystick to any direction to exit the circle fly.

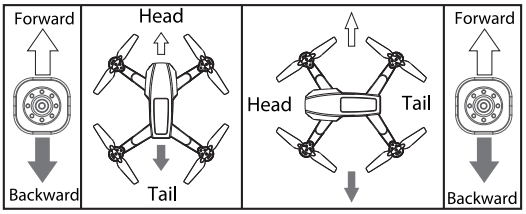
Note: When the LED on the drone keep flashing, it means the drone is under low battery mode.Circle Fly will NOT be performed by the drone.

Headless Mode

Prerequisite: Before entering the Headless Mode, the drone is required to be calibrated.

1. Place the drone on a flat level surface, let the head of the drone face forwards, and the tail of the drone face towards the pilot, then calibrate the drone.
2. Press the Headless Mode button, the light of the drone will start flashing, meaning the drone is entering into Headless Mode.
3. Now you should be able to operate your drone under Headless Mode. To exit, press the Headless Mode button again, it will emit a beep sound, showing it has been exited.

Importan Note: When calibrating the drone, ensure the head of the drone is facing forward, and tail is facing towards the pilot. This can help you better understand the headless mode. Because Headless Mode is set according to the direction of the drone while calibrating. Under Headless Mode, if the direction of the drone is inaccurate, please land it and repeat step 1 and 2 to start again.



Standard Mode Headless Mode

Download APP and Connect to WIFI

1. Please search "S1 drone" or scan the QR code to download the APP.

S1 drone

Available on the APP store

Available on the Google play

2. Go to the wifi setting of your smart phone and connect to the wifi "S1_DRONE-WIFI-****"

3. Launch the "S1 drone" APP and tap "start".

Important Note:

1) Please make sure that "S1_DRONE-WIFI-****" WIFI is only connected to one smart phone.

2) If you fails to see the First Person View(FPV) after clicking "start" in the APP, it may because the app has been shielded by the smart phone. Please find the solutions as below:

1:Check "S1 drone" APP setting, make sure "WLAN & Cellular Data" has been selected.

2:Go to phone setting - turn off WI-FI - Turn on "Cellular Data" - Open the APP - A window will pop up - select "YES"

3:Re-install the APP.

4:Use another smart phone (ios/android).

APP Operation Panel

Take Photo	Calibration	Voice Control
Record Video	Special Effects	VR Mode
Media Gallery	Flip Image	Take Off
ON/OFF	More	Landing
Unlock/Lock	Gravity Sensor	STOP Emergency Stop
Speed Switch	Gesture Control	
Headless Mode	Trajectory Flight	

How to control the drone with the APP instead of remote controller?
Turn on the drone - Connect wifi "S1_DRONE-WIFI-****" - Open the APP and click "Start" - Click icon (icon light up) - Click icon to start the flight.

Click icon (Trajectory Flight) to direct your drone's flight path by simply draw a flight route on the screen.

Click icon (Voice Control): fly,land,left,right,forward,backward.(only support English)

Click icon (Gravity Sensor) to control your drone's flight path by shifting your phone. For example: shift your phone leftwards, the drone will fly towards the leftside immediately.

Click icon (Gesture Conrtol) and make specific gesture within the sight range of camera, the drone will execute commands of taking photo /video.

i.e.: - take photo - record video (repeat the same action to stop shooting).

TROUBLESHOOTING

Problems	Reasons	Solutions
The light on the drone are flashing and the drone is not responding.	1.Insufficient battery power. 2.Controller is NOT connected to the drone. 3.Unbalanced position.	1.Fully charge the battery. 2.Turn off the drone and controller.Reconnect them by turning on the drone first then the controller. 3.Place the drone on a horizontal flat surface and reconnect them.
The propellers spin but doesn't take off.	1.Insufficient battery power. 2.Propellers NOT installed correctly. 3.Damage propellers. 4.Something being caught in the propellers or gears.	1.Fully charge the battery. 2.Check the propellers installation (A to A,B to B) 3.Replace new propellers. 4.Clear gears and propellers.
The drone doesn't fly properly after a crash.	1.Propellers NOT installed correctly; 2.Damaged propellers; 3.The balance of gyro is confused; 4.Propellers have hit the Blade Guard.	1.Check the propellers installation (A to A,B to B) 2.Replace new propellers. 3.Calibrate the drone or press trim button to fine tune the direction. 4.Make sure blades work well. 5.Replace motors.

Contact Us

TOPRCBOXS is committed to leave all our customers best products and services. We value each of our customers and appreciate your suggestions and opinions. Please feel free to contact us:

support_us@toprcboxs.com (US region)

support_eu@toprcboxs.com (UK region)

For online support, please scan this code with Live Chat

FCC Compliance

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received,including interference that may cause undesired operation.

Note: 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. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by ne or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

Caution:changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION

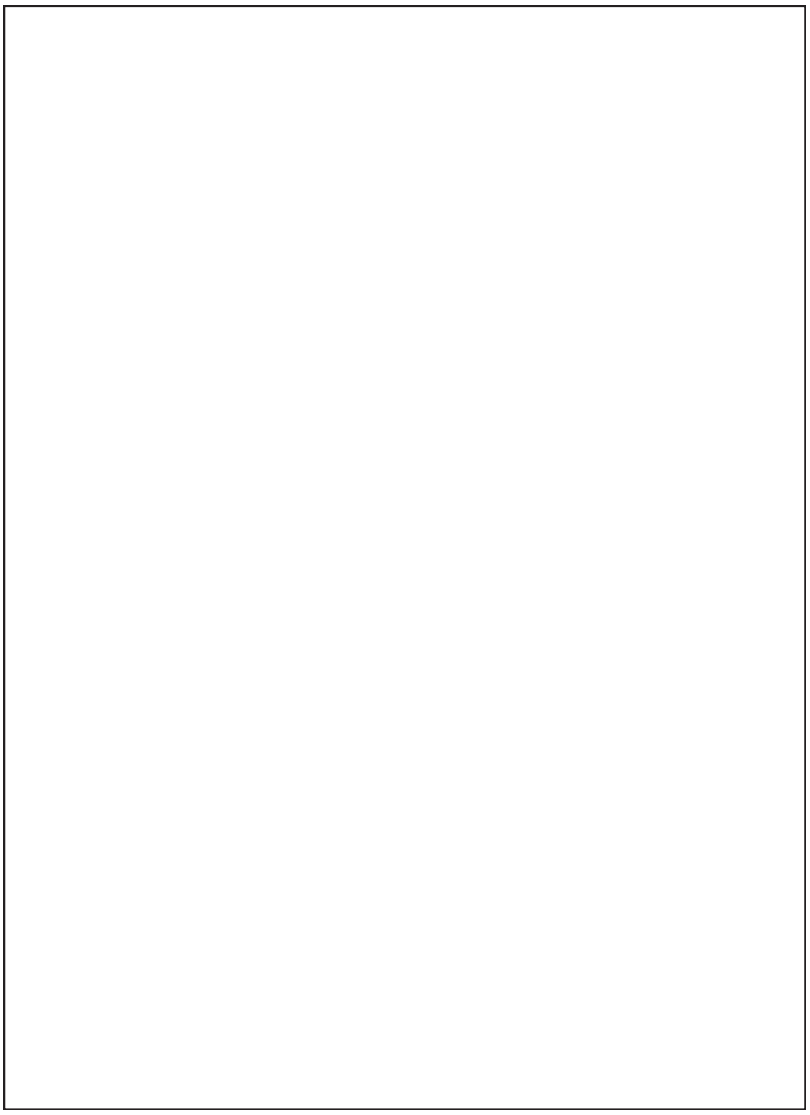
Risk of explosion if battery is replaced by all incorrect type.

Dispose of used batteries according to the instructions

The symbol indicates DC voltage

RECYCLING

This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

PLEASE RECYCLE

BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY CE