


SNAPTAIN

# E10/E20

FOLDABLE DRONE

14"






## USER MANUAL

Please read this manual carefully before flying and keep it for future use.

SNAPTAIN SUPPORT

US support@snaptain.com


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**Plug in**




**BATTERY SAFETY**




**Fly in Open Area**




**Maximum Flight altitude: height is about 260ft(80m)**




**Maintain Line of Sight**




**Maximum Flight altitude: height is about 260ft(80m)**




**Avoid flying over or near obstacles, crowds, high-voltage power lines, rivers, airports or water areas.**




**DO NOT fly near strong electromagnetic sources such as power lines and base stations as they may affect the onboard compass.**




**Do not use the drone in adverse weather conditions such as rain, snow, and fog. It is advisable to operate it in a windless environment.**




**No Fly Zone**




**Stay away from the rotating propellers and motors**




**No Fly Zone**




**For your safety and that of those people around you, it's important to understand local flight guidelines. Before flying, make sure you need the safety precautions.**




**DO NOT fly near strong electromagnetic sources such as power lines and base stations as they may affect the onboard compass.**




**Plug in**




**BATTERY SAFETY**




**Fly in Open Area**




**Maximum Flight altitude: height is about 260ft(80m)**




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
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
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
**No Fly Zone**




**Stay away from the rotating propellers and motors**



**No Fly Zone**



**For your safety and that of those people around you, it's important to understand local flight guidelines. Before flying, make sure you need the safety precautions.**



**DO NOT fly near strong electromagnetic sources such as power lines and base stations as they may affect the onboard compass.**

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## \*How to Replace the Propeller Assembly(Optional)

The marks on the propellers (A/B) should match the marks on the drone arms when you replace the propellers.

**A** propeller assembly: Starting with letter A, like A1, A2, etc.

**B** propeller assembly: Starting with letter B, like B1, B2, etc.

## REMOTE

- ① Phone Holder
- ⑧ Antenna
- ② Speed Switch
- ⑨ Emergency Stop
- ③ One Key Take-off and Landing
- ⑩ Click Fly
- ④ Left Control Stick
- ⑪ Right Control Stick
- ⑤ Power Button
- ⑫ 3in-Fly
- ⑥ Charging Port
- ⑦ Battery Power Indicators

- ⑬ Camera Tilt
- ⑭ Zoom In/Out
- ⑮ Record Video
- ⑯ Take Photo

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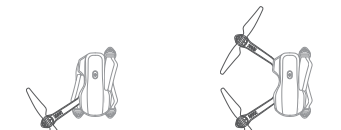
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## FIRST-TIME USE

### Flight Preparation


The propellers and arms of the drone are folded for packaging purposes. Please unfold the front arms, then the rear arms.



2. Remove the battery from the drone, then charge it with the USB charging cable provided in the box. The cable can connect to a plug with a maximum output of 50 VA.



Charging: Solid on  
Fully Charged: Off

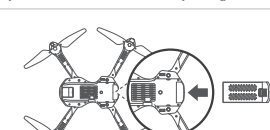


When the battery gets low, all the indicators on the drone will flash 3 times every 2s.

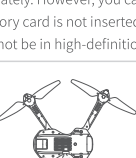
Notes

① It's not recommended to charge the battery using the USB port of a PC.  
② Please note that when flying in low temperature environments, the flight time of the drone may be reduced.

3. Install the battery into the drone after it's fully charged.



4. Insert a memory card into the drone. Memory cards must be purchased separately. However, you can still use the drone's camera even if a memory card is not inserted, although the resulting videos and pictures may be in high-definition format only.)



\* Support up to 128GB  
\* Support FAT32 and exFAT formats

5. Place the drone on a flat and level surface, then press and hold the power button for 3s on the drone to power it on.

10. Press and hold the power button for 3s on the remote to power it on. The drone will automatically pair with the remote. If the pairing is failed, please repeat the step 10 and step 11.

- \* Pairing: All the indicators on the drone optically flash 3 times.
- \* Successfully Paired: All the indicators on the drone turn solid on.

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### Right Control Stick


The diagram shows four positions of the right control stick with arrows indicating the drone's movement:

- Stick Forward:** The drone will fly forward.
- Stick Backward:** The drone will fly backward.
- Stick Leftward:** The drone will fly leftward.
- Stick Rightward:** The drone will fly rightward.

\* Land: When the drone hovers in the air without any obstacles, press this button to make it descend and land until the propellers stop rotating.

The diagram shows a hand clicking a button on a smartphone app. The button is labeled "Land" and has a downward arrow icon.

### Circle Fly

If there are no obstacles within a radius of 5 meters around the drone, press the  button on the remote control to make the drone fly in a circular pattern.


### Functions

#### One Key Take-off and Landing

\* Take-off: Place the drone on a flat and level surface without any obstacles, then press this button to make it ascend and hover at a height of 3.98 ft (1.2m).

The diagram shows a hand clicking a button on a smartphone app. The button is labeled "Take Off" and has an upward arrow icon.

The diagram shows a hand clicking a button on a smartphone app. The button is labeled "Disable Circle Fly" and has a circular arrow icon.

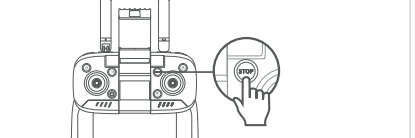
Press the button  again to disable this function. It's important to note that this function cannot be enabled when the drone's battery is low.

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Please make an emergency stop when the drone's flight height is below 98ft(30m). If the drone's flight height is above 98ft(30m), carefully descend it to a height below 98ft(30m) and then make an emergency stop.

After an emergency stop, you intend to fly the drone again, please restart both the drone and the remote control.

② Press the button  on the remote or the  on the App to start recording a video. Press the same button or tap the same icon on the App again to stop recording. The video will be saved both on your mobile phone and the memory card. (Please make sure the drone cannot capture photos while it is recording a video.)


**Find Your Drone**

When the drone is accidentally lost during flight, press and hold the buttons  and  for 3 seconds to try to locate it. In response, the drone will emit a rapid beep and flash on for a minute.

**Note**



To perform this function, the drone must be connected to the remote and have enough power.

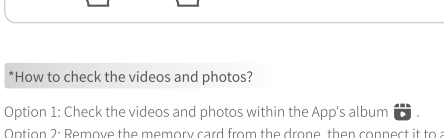
**How to check the videos and photos?**

Option 1: Check the videos and photos within the App's album .

Option 2: Remove the memory card from the drone, then connect it to a computer using a card reader.

**Camera**

③ Press the button  on the remote or  on the App to take a photo. When taking a photo, the indicators on the drone will flash once and a shutter sound will be heard.



\* when the drone does not have a memory card installed, the photos and videos will be saved with a resolution of 720P when the app is off.

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Status	(Beep)s	Wind Speed Resistance	5m/s(Level 2)
Low Battery	2 short beeps every 2s	Battery Capacity	3.8V/2000mAh Lithium Battery
Find Your Drone	shortly beeps for 1 minute	Charging Time	≈4 hours (depending on the power of the charger)
Powering on the remote	1 short beep		
Powering of the remote	2 short beeps		
Emergency Stop	6 short beeps		

SPECIFICATIONS	
Drone	
Model	E10/E20
Weight (with battery installed)	181g
Max. Flight Time	18 minutes
Operating Temperature	32°F / 04°F(0°C - 42°C)
Dimensions	10.75x 11.9x 9.2 inches/ 27.3x 30.3x 23.6cm (diagonal) 6.6x 3x 2.2 inches/ 14.14x 9.85 x 6cm (w/o arms)
Flight Speed (w/ a level, no wind)	3m/s, 5m/s and 8m/s

Camera	
FOV	≈90°
Photo Resolution	E10: 1920 × 1080 pixel E20: 2720 × 1580 pixel (App's Album and Memory Card)
Video Resolution	E10: 1280 × 720@30fps (App's Album) 1280 × 1080@30fps (Memory Card) E20: 1280 × 720@25fps (App's Album) 2016 × 1080@25fps (Memory Card)
Photo Format	JPG
Video Format	MP4
Memory Card Type	32 to 128GB SD Card(Class 10 U3 and above) FAT32 and exFAT Formats
Operating Frequency	5.15-5.25 GHz; 5.725-5.825 GHz

• For your safety, please follow the rules and safety guidelines whether you're a beginner or an expert at flying drones.

• According to the relevant laws and regulations in US, all drones must be registered, except those that weigh 0.55 pounds or less (less than 250 grams) and are flown exclusively under the Exception for Recreational Flyers. Please log in to the website of <https://faa.gov/registration> to complete the registration.

Make sure to observe local laws and regulations about the take-off weight. If the buyer does not register timely, DSNAPAIN will not be responsible for any losses, penalties and injuries caused by illegal flights.

To meet the electromagnetic requirements of aviation on the radio station, it is forbidden to fly drones within 6.21 miles (10km) on both sides of the runway corridor, or within 1.24 miles (20km) of both ends of the runway. It is also prohibited to fly a drone on the route of an airline in the area that is prohibited by the relevant authority or department of your country, stop using all flying modes and unmanned quadcopters.

• Please download the BUDY App from Google Play or App Store, which provides real time information about airspace restrictions and other flying requirements based on your GPS location.

• Beginning September 16, 2023, all drone pilots who are required to register their UAS must operate in accordance with the rule on Remote ID.

**ENGLISH**

## IMPORTANT SAFETY PRECAUTIONS

The drone can pose a danger when in use. When flying, make sure you that you are not in any way endangering people, property, animals, or infrastructure, or unfamiliar users may damage the drone, cause injury, or lead to an unexpected accident. Make sure you that you do not intend to flying safely, and learn how to identify more dangerous conditions that may cause an accident due to your negligence.

**1. Avoid crowds and structures**

Drones are able to operate above the drone's flight area and spend about in flight, which can cause collisions, tree, structures, high-voltage wires, etc. Flying above crowds, buildings, dense vegetation, high-voltage wires, etc. Flying above them will be included in adverse weather conditions such as rain, snow, and high winds to ensure the safety of the user, operator, and property

**2. Avoid flying over populated areas**

Drones are made up of a variety of precision electronic and mechanical components. As a result, please make sure that moisture and water do not enter the drone. This can prevent mechanical or electronic parts from malfunctioning and thus causing an accident.

**3. Only use the included parts for intended use**

For maintenance and repairs, please use the original parts made by SHANTIAN. You should only use and operate the product in accordance with its permitted functions. The warranty will be voided if you apply unpermitted parts. Use only within the scope of your local laws and regulations, and NOT for illegal purposes.

**4. Avoid controlling the drone alone**

It may be difficult for beginners to operate this drone at the beginning. Please avoid flying the drone alone. When possible, operate this drone under the guidance of an experienced pilot.

**5. Fly safely**

Only fly this drone in accordance with your skill and flying skill. In a small probability of accidents if a person is fatigued, has a poor mental state, or operates incorrectly.

**6. Stay away from the rotating parts**

You should keep the hand away from the drone and any surrounding persons or objects when flying at high speed.


**7. Keep it away from heat sources**


Drones are made of metal, fabric, plastic, electronics, etc. Avoid prolonged exposure to direct sunlight or heat sources to avoid any heat source. Excessive heat exposure can cause distortion and damage.

## FLY SAFELY


**FPV transmission requirements:**

- \*Make sure to fly the drone in an open area without any interference or obstacles.
- \*Do not fly against the wind.







Drone x1




Battery x2




Remote x1




Spare Propeller Assembly x2




Screwdriver x1




Screws




Carrying Bag x1




User Manual x1



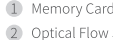
Quick Guide x1



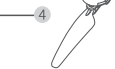
USB Charging Cable x1




Memory Card Slot



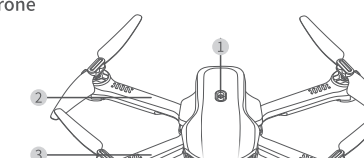
Optical Flow Sensor



Battery



Rear LED Indicator



1 Power Button

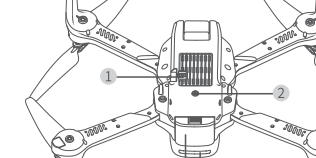
2 Propeller

3 Rear Arm

4 Front Arm

5 Front LED Indicators

6 Camera



1 Memory Card Slot

2 Optical Flow Sensor

3 Battery

4 Rear LED Indicator

**WHAT'S INCLUDED**

The product is a newly developed and simple-to-use drone for beginners. It is ready to fly out of the box. This drone features a downward vision positioning system and can fly both indoors and outdoors. It has a maximum flight time of 30 minutes, suitable for short-distance flights. To operate it, you will need a remote control or an app. Please refer to the user manual for more detailed instructions on flying the drone.

**PRODUCT OVERVIEW**

Drone

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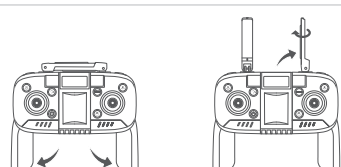
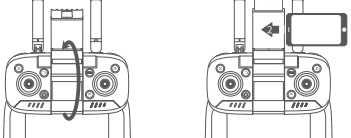
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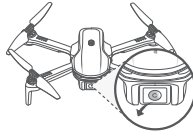
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<p><b>Speed Switch:</b> Press this button to toggle between different speed levels.</p> <p><b>One Key Take-off and Landing:</b> Press the drone on a flat and level surface of area, then press and hold this button for 1 second to make it ascend and hover at a height of 3.9ft(1.2m). When the drone is hovering, press and hold this button for 1 second to make it descend and land until the propellers stop rotating.</p> <p><b>Left Control Stick:</b> Push this stick to make the drone ascend, descend, rotate leftward and rotate rightward.</p> <p><b>Power Button:</b> Press and hold it for 3 seconds to power on the drone; press and hold it for 3 seconds again to power off the drone.</p> <p><b>Emergency Stop:</b> If an abnormal situation occurs when the drone is below 32.8ft(10m), you can press and hold this button for 1 second to make an emergency stop. (When this function is activated, the drone's motor and propeller will stop rotating, causing it to fall from the sky and potentially pose risks of damage. Use this function with caution.)</p>	<p><b>3D Flip:</b> Press this button to enable this function; then push the right control stick to flip the drone.</p> <p><b>Battery Power Indicator:</b> Displays the battery's battery status. Each indicator represents 25% power.</p> <p><b>Camera Tilt:</b> Push this gear forward or backward to tilt the camera.</p> <p><b>Record Video:</b> Press this button to start recording a video; press again to stop the recording and save the video to both your mobile phone &amp; memory card.</p> <p><b>Zoom In/Out:</b> Push this gear leftward or rightward to adjust the lens focus.</p> <p><b>Take Photo:</b> Press this button to take a photo and save it to both your mobile phone &amp; memory card.</p>

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5. Charge the remote with the USB charging cable provided in the box.  


Charging Battery Power Indicators flash one by one  
 Fully Charged 4 indicators turn solid on  
 Low Battery: The leftmost indicator flashes
6. Unfold the handle and antenna.  

7. Unfold the phone holder to mount your mobile phone. **Remove PHONE CASE before mounting to prevent your phone from dropping off!**  


**Note:**  
 The phone holder can accommodate smartphones with a width ranging from 1.77 inches(45mm) to 3.38 inches(86mm).
8. Please remove the protective film on the lens before flying.  


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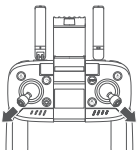
FUNCTION OVERVIEW

### Flight Control

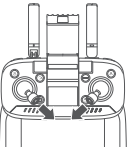
- #### Unlock the drone

**Option 1**

For your safety, the propellers of the drone are locked by default. To unlock the drone, please simultaneously push the **Left Control Stick** to the lower left at 45° and the **Right Control Stick** to the lower right at 45° until the 4 propellers start rotating.

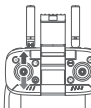
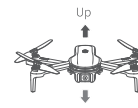

- #### Option 2

For your safety, the propellers of the drone are locked by default. To unlock the drone, please simultaneously push the **Right Control Stick** to the lower left at 45° and the **Left Control Stick** to the lower right at 45° until the 4 propellers start rotating.



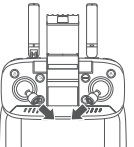
### 2. Flight Directions

**Left Control Stick**

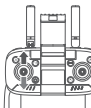
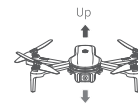
Push the Left Control Stick forward and the drone will ascend, push it backward and the drone will descend.

Push the Left Control Stick upward and the drone will rotate to the left, push it rightward and the drone will rotate to the right.



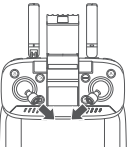
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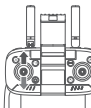
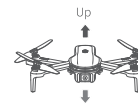
Push the Left Control Stick forward and the drone will ascend, push it backward and the drone will descend.

Push the Left Control Stick upward and the drone will rotate to the left, push it rightward and the drone will rotate to the right.



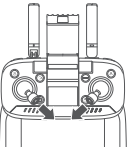
### 2. Flight Directions

**Left Control Stick**

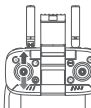
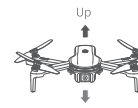
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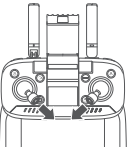
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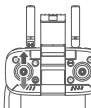
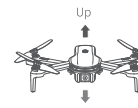
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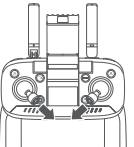
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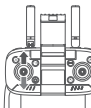
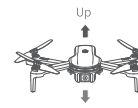
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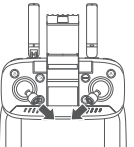
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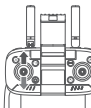
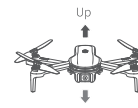
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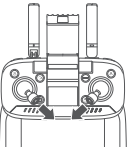
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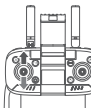
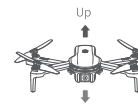
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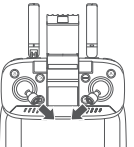
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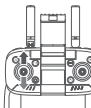
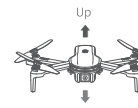
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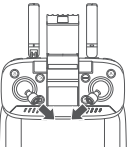
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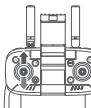
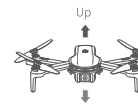
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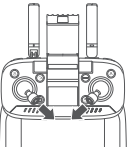
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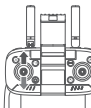
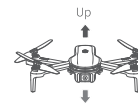
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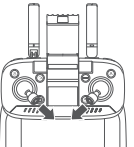
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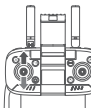
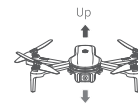
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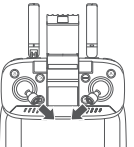
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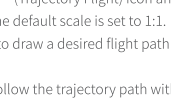
### 2. Flight Directions

**Left Control Stick**


EN
EN


### Trajectory Flight

- ① Open the App and navigate to the main page.
- ② Tap on the  (Trajectory Flight) icon and adjust the scale by sliding the scale bar. The default scale is set to 1:1.
- ③ Use your finger to draw a desired flight path on the blank area of the screen.
- ④ The drone will follow the drawn flight path without changing its flight height, but the length of the trajectory will vary based on the selected scale.



### 360 Flip

After flying the drone to a height of at least 6.6 ft (2.01 m), press the  button to activate the 360° flip function. Once activated, use the Right Control Stick to perform flips. Push the stick forward, backward, leftward, or rightward to execute a 360° flip in the corresponding direction.



### Emergency Stop

If an abnormal situation occurs when the drone is below 32.8 ft (10 m), you can press and hold this button for 3 seconds to make an emergency stop. When this function is activated, the drone's motor and propellers will stop rotating, causing it to fall from the sky and potentially pose risks of damage. Use this function with caution.


**Note**

This function is not available when the drone's height is over 32.8 ft (10 m).

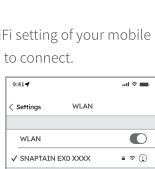
21 | support@xgteam.com
support@xgteam.com | 22

### App Download and Installation

**Step 1:** Simply navigate to the link setting of your mobile phone and search for **SWAPNAN DIO XXXX** link to connect.



**Step 2:** Simply navigate to the link setting of your mobile phone and search for **SWAPNAN DIO XXXX** link to connect.



**Step 3:** Enter the **SWAPNAN FPV** app, then tap **FUNCTION DISPLAY** to enter the main page to see the live preview.

### EXPLANATIONS OF DRONE'S LED INDICATORS

Status	Front LED Indicators (Blue)	Rear Indicator (Green)
Powering on	Pulsing	Pulsing
Pairing	Quickly flash 3 times	Quickly flash 3 times
During Flight	Solid on	Solid on
Reset	Quickly flash 2 times	Quickly flash 2 times
Low Battery	Flash 3 times every 2s	Flash 3 times every 2s
Find Your Drone	Quickly flash for 1 minute	Quickly flash for 1 minute
Powered off	Off	Off

### BEEPS EXPLANATION

Status	Beep(s)
Powering on the drone	2 short beeps
Powering off the drone	1 short beep, then 1 long beep
Command executed successfully	1 short beep

[illegible]