

# XYU DS3-20M

Drones emergency Parachute system

User manual (V2.0)

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## Legal disclaimer

Thank you for purchasing XYU DS3 series products. Before use, please read this statement carefully and, once used, it will be deemed as recognizing and accepting the full contents of this statement. Please strictly abide by this manual to install and use the product. For any loss caused by improper use, installation or modification by the user, Changzhou Xiaoyu Intelligent Technology Co., Ltd. and its affiliated companies will not incur any liability or loss. This system is only used in emergency to slow down the speed of aircraft falling, and cannot fully guarantee users, equipment, other objects and third parties free of any damage.

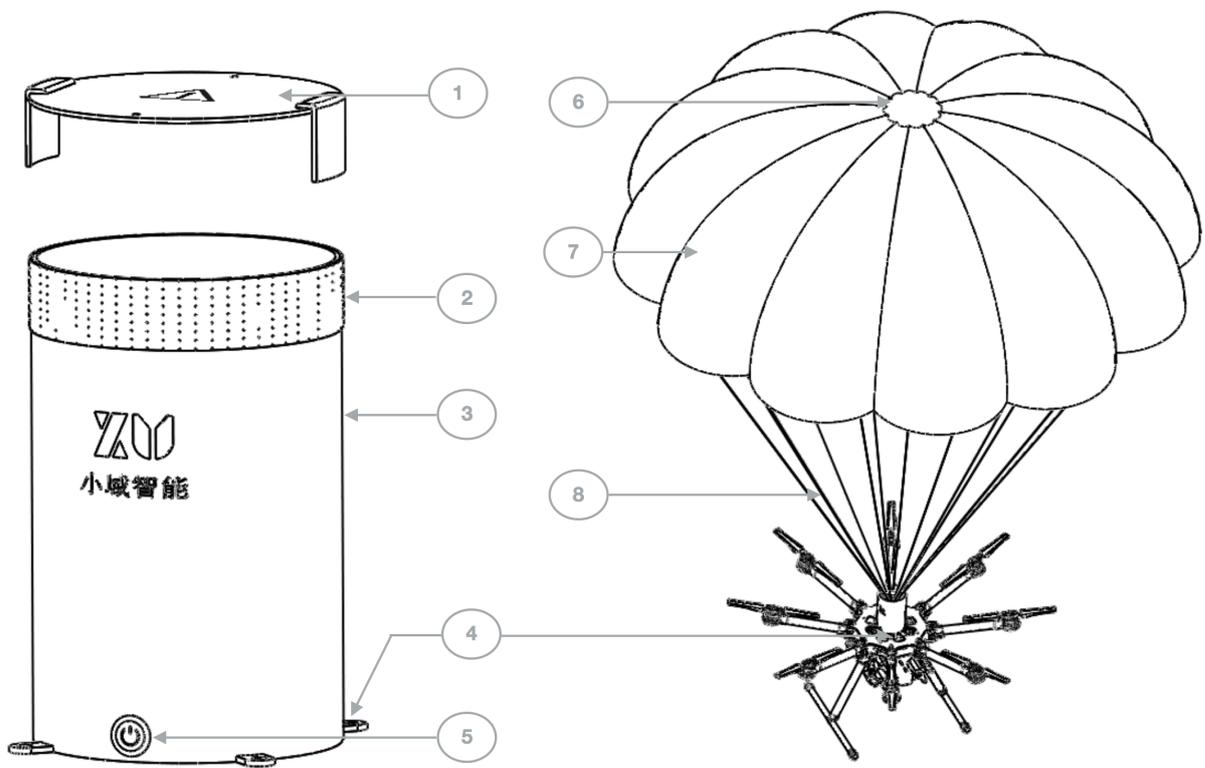
## Precautions for the use of products

1. DS3 series is of USB charging, charging voltage is 5v.
2. It is in the working condition when the equipment light is on, do not shake and overturn the equipment violently.
3. Please fold the parachute and place the propellant according to the instructional video.
4. Solid fuel propellants are flammable products do not contact open flames.
5. Please put the propellant in a cool and dry place for storage.
6. The installation of parachute equipment should be placed in the center of gravity of the flying device as far as possible and fixed.
7. The strength of the connecting position of the equipment and the aircraft must be able to withstand upward tensile force to prevent collapse.
8. Do not face the ejection port to people and others and prevent accidental triggering.
9. Do not block the top of the parachute system, otherwise you will not be able to pop out the parachute normally.
10. Check if parachutes and parachutes rope are damaged or broken during repeated use, and replace them in time.

## Operation Method

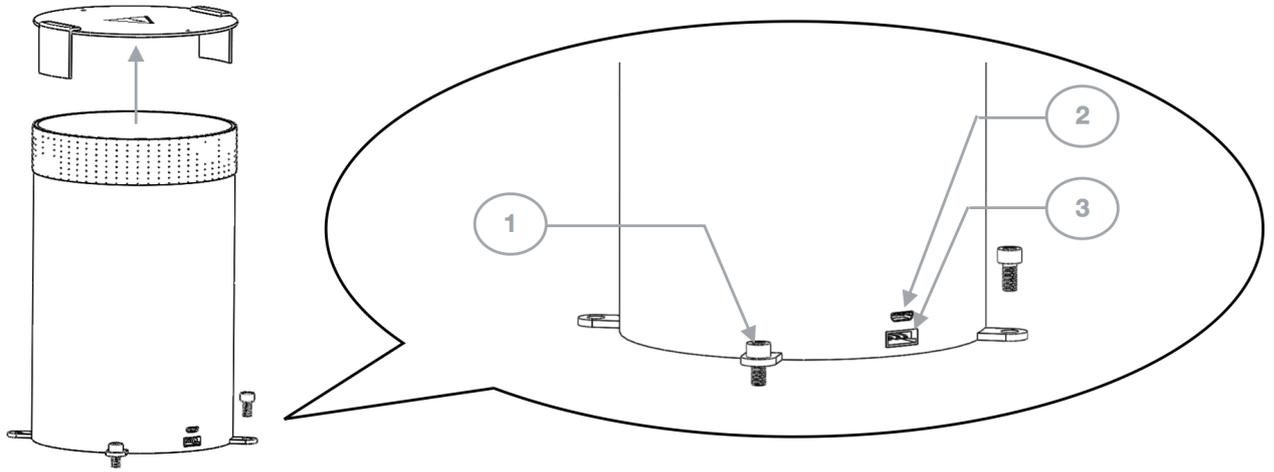
After receiving this product, please install the product vertically in the center of the aircraft. If another device occupies the center position, try to be as close to the central location as possible. please turn off the power switch when equipment is in transport and non-flight status. Before takeoff, turn on the power switch, the equipment will enter the working state after the light is on, at this time if there is a rollover overturn, the equipment will work and instantaneous pop-up parachute. After landing, please turn off the power in time to prevent unnecessary damage caused by false triggering. Propellant is consumable please consult the manufacturer for purchase.

On back of the product switch there is a USB port, a PWM signal interface. The USB interface is only used for charging, charging voltage is 5V. when charging, there is a blue light constantly on in the USB port, after fully charged the blue light goes off. The equipment can work under the charging state, so when the equipment voltage is too low or in the state of lack of electricity, it can be charged by external USB charging device to improve its aviation time. The PWM signal input interface is used to connect the UAV flight control system or the remote controller receiver. PWM Port is of three-pin port and only need to connect the signal and ground, which is suitable for the flight control of no power output. Combining with the complimentary Y-line, it can simultaneously connect the flight control and receiver achieving triple control. The system trigger angle default is 60°, if need you may contact the factory for adjustment. When the system is turned on, there is the blue light on, if no blue light or blue light is flashing, it means voltage is low and need to charge or connect with external power supply. After the system is on the blue light will turn off, at this time the system enters the protection state, if need to reuse it just restart it.



①: cover ②: magic post ③: parachute barrel ④: fixing hole ⑤: switch ⑥: air hole ⑦: canopy ⑧: cord

Model	DS3-20M
Size	Diameter 105mm / height 165mm
Installing holes position	112mm * 112mm by 4 M4 screws
Input	PWM /USB
Charging	USB /5V
Load	< 20kg
Parachute diameter	3000 mm
Battery capacity	500mAh
Standby time	6 hours
Trigger mode	Flight control / RC receiver / built-in system
Pose sensing range	±90°
Trigger angle	±60°
Weight	400g
Launch method	DS3 - T20 propellant
Working environmental temperature	-10-40°C

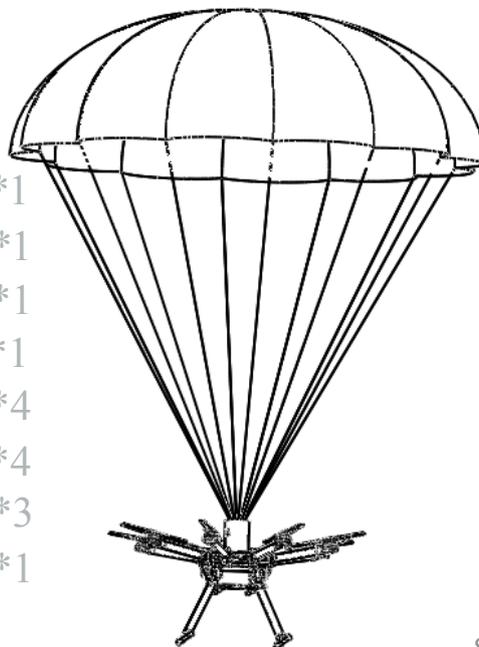


1000us-1350us	5V 50Hz	1750us-2000us
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This product is the emergency parachute equipment that can used only for the emergency of aircraft to slow down and landing. The warranty period is 1 years or 30 times, if either requirement expires it will be deemed out of warranty. Design of the parachute barrel is for repeated use of 30 times, if over 30 times, we do not guarantee its function. Parachute design used 30 times, reuse before the use of a reload to check the canopy is designed for use of 30 times, before the new use and folding, please check if the parachute body being damaged or other burnt conditions, whether the rope has serious wear or fracture. If the above situation occurs, the parachute needs to be replaced so as not to affect reuse.

### Material list

- Parachute ejection barrel\*1
- Parachute \*1
- Sealing cover \*1
- Pilot signal cable \*1
- M4 screw \*4
- M4 nut \*4
- Propellant \*3
- Hexagon spanner \*1



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Product technical support email: [support@xyuzn.com](mailto:support@xyuzn.com)

You can visit our website to check and download the latest version.

[www.xyuzn.com](http://www.xyuzn.com)