XD-MAX winch for drone			
Basic Parameters	Main body dimensions	326*225*208mm	Customizable rope length, need to reduce the maximum load weight.
	Main body weight	13kg	
	Mechanical release device weight (optional)	1890g	
	Smart Auto Release Device (optional)	1647g	
	Rope length	25m	
Configuration Plan 1	Max load weight	200kg	Is the maximum retraction speed achieved when fully loaded? Yes.
	Retraction speed	0.1-0.4m/s	
	Motor speed	32-128RPM	
Supply Voltage	Power supply mode	Battery powered, does not support DCDC power supply.	
	Power supply voltage	44-52V	
	Full load rated power	400W	
	Hover power	<20W	
Control Mode	SBUS	Standard	
	Remote control	Standard	
	PWM	Standard	
	RS232/RS422	Optional, can be used for ground station development	
	CAN communication	Optional, can be used for ground station development	
Integrated development function (provide protocol, users conduct integrated development)	Real-time data display	Winch working status	RS232/RS422 control method is required for ground station development.
		Motor working status	
		Connection status of delivery module	
		Smart Auto Release status	
		Input voltage	
		Fuse battery voltage	
		Battery voltage of delivery module	
		Lowering rope length	
		Retracting speed	
		Motor speed	
		Motor bus current	
		Motor phase current	
		Mounted weight (cable tension)	
		Rope swing heading	
		Rope swing maximum angle	
		Rope swing frequency	
		Rope swing angular velocity	
		Cumulative rope length in use	
		Cumulative number of overloads	
		Cumulative number of fuses	
		System startup time	
		Cumulative startup time	
	Custom settings	Lowering/ascending fixed rope length setting	Need to use RS232/RS422 control mode for custom settings
		Motor retraction and extension speed setting	
Features	Retraction limit	Support upper and lower limit	
	Automatic line management	The wire reel supports automatic wiring	
	Auto Release	The cargo ground unhooking device can automatically unhook	
	Ground Stop with Auto Unhook	Automatically stop releasing the rope when the cargo touches the bottom	
	Tension Monitoring	Real-time detection of cable tension	
	Sway detection	Real-time detection of the cable's swing angle, direction, and speed (cannot be eliminated)	
	Power off-brake	The equipment automatically brakes upon power failure to prevent cargo from being thrown away.	
	Smart Auto Release, one-click throwing	Optional Smart Auto Release can achieve one click throwing	
	One-click cargo release	Support one click automatic release of goods	
	One-click rope fuse	Emergency one click rope breaking function	
	Slow rise to the top	Slowly lift the cable before reaching the top	
	Fault alarm	Motor malfunction, yellow indicator light flashing rapidly	
	No empty load release	When there is no suspended load, the descent command will be triggered and stopped to prevent the cable from being empty and tangled back.	