

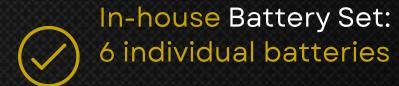
THE HIGHDRA
SYSTEM OVERVIEW





System Overview





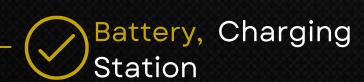
tems	Quantity
Aircraft Body	1
Arm, incl. Propeller	6
Propeller Transport Safeguards	6
Landing Leg Vertical Part	2
Landing Leg Horizontal Part	2
Remote Control (RC)	1
Remote Control Charging Cable (Mircro USB)	1
Powerbank (for the Remote Control)	1
Battery Set (6 individual batteries)	1
Battery Charging Station	1
EASA Information Notice	1



2.2 Specifications			
Items	Unit (g)	Quantity	Subtotal (g)
Body	3,700	1	3,700
Arm, incl. Propeller	750	6	4,500
Landing Leg	300	2	600
Battery	1,450	6	8,700
Total			17,500









Landing Leg: Horizontal and Vertical Part



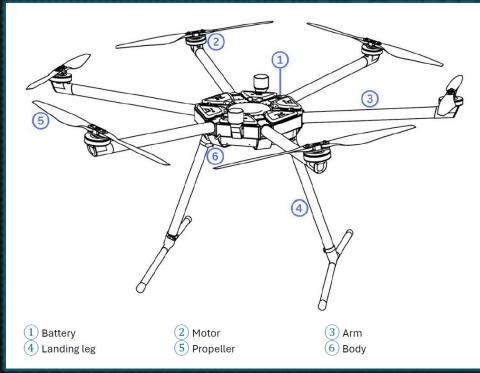
Description of Components

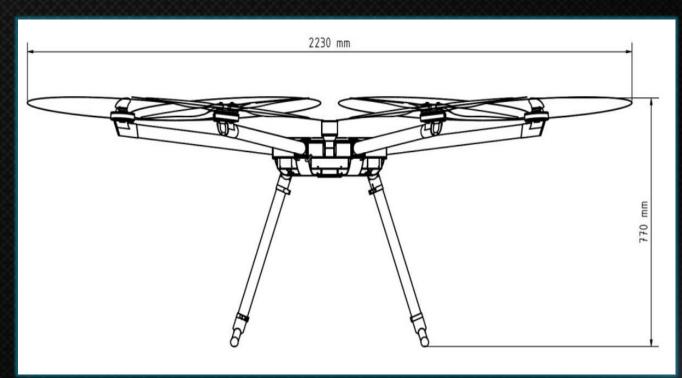




- **Motor**
- **⊘** Arm
- Landing Leg
- Propeller
- **Body**









Body

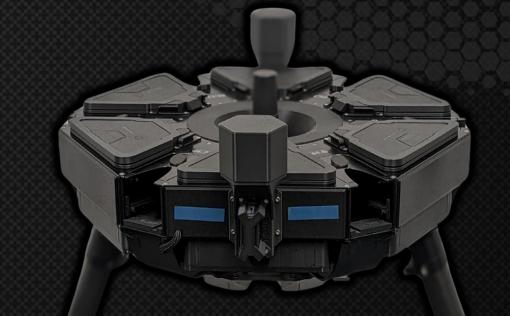


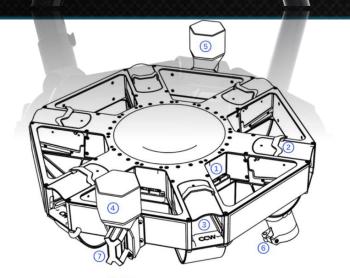
A.I. ready body Powered by Auterion



Compatible with various sensors for different missions







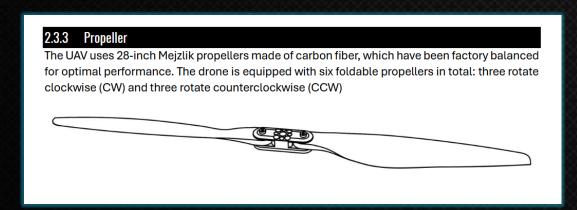
- 1 Battery slot
 2 Arm locking mechanism
- 3 Arm slot
- 6 Landing leg lock mechanism
- 7 Dronetag Beacon

HIGHDRA	
UAS Class	C3
Operating Area in the Open Category	A3
Max. Takeoff Mass	24.99 kg
Dimensions	223.0 (W) x 202.6 (D) x 77.0 (H) cm
Max. Flight Time	60 min without payload
	30 min, with max. Takeoff Mass
Max. Tilt Angle	36°
GNSS	GPS, GLONASS, Galileo and BDS
Hovering Accuracy Range	Vertical: ±20 cm (with GPS position)
	Insert a SmartArt Graphic zontal: ±30 cm (with GPS position)
Guaranteed Sound Power Level	104 dBA
Max. Altitude (AMSL)	3500m with up to 2.5 kg Payload
	1500 m with MTOM
Altitude Line of Sight	749 m



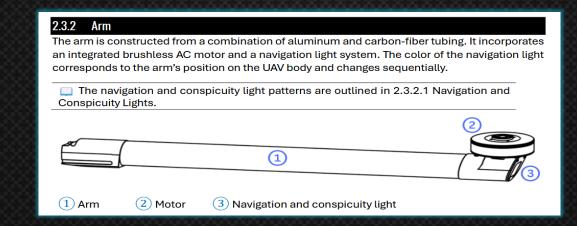
Arm, Propeller and Landing Leg





Mejzlik carbon fiber propellers



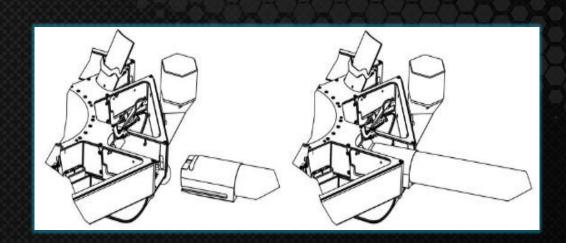


Aluminium and Carbon-fiber tubing



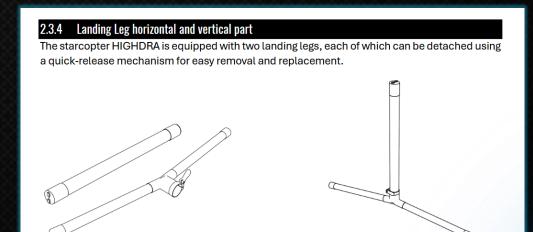
Quick-Release Mechanism





Quick-Locking

Mechanism





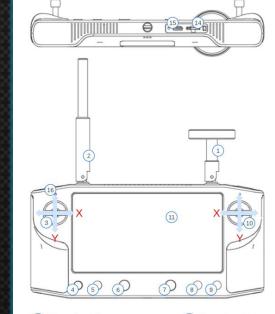




CubePilot Remote Control



Pre-installed **Auterion Mission** Control



- 1 Directional antenna
- (3)10 Joystick 4 Button A
- 6 Power button
- 8 Button C 9 Button D
- 11 LCD screen

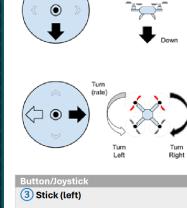
12 Upper right button 13 Upper Left Wheel

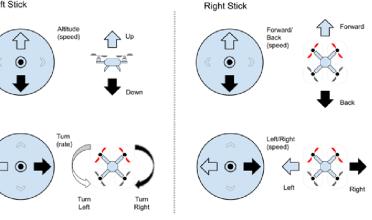
(14) Micro SD card slot

15 Micro USB

16 Status LED







Button/Joystick	Description	
3 Stick (left)	X-axis: Yaw	
	Y-axis: Throttle	
10 Stick (right)	X-axis: Roll	
	Y-axis: Pitch	
4 Button A	Position Mode	
5 Button B	Altitude Mode	
6 Power button	Turn on/off the RC	
7 Home button	Return to Launch (RTL)	
8 Button C	Kill	
9 Button D	No function	
Upper right button	No function	
13 Upper Left Wheel	No function	



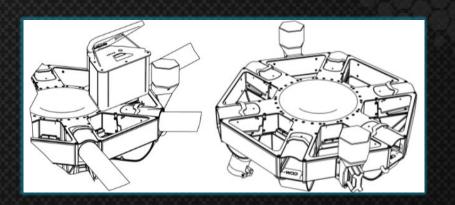
Do not perform any software updates on the remote control yourself.



Battery



A set of Six independent 24 V Highdra Power Packs



starc(Xpter

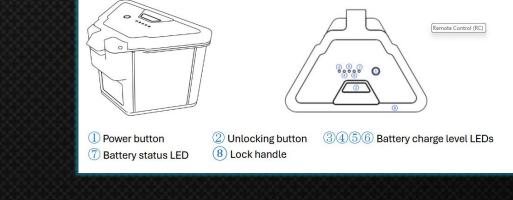
HIGHDRA® Power Pack Rechargeable Lithium Ion Battery 21.6 V 12.6 Ah 272 Wh

MFG: XXXX-XX-XX SN: XXXX XXXX

X Set-ID: XXX



Internally
managed by
Highdra BMS
circuity and
software



Battery	
Battery Capacity	272 Wh
Voltage	24.0 VDC
Charging Voltage Limit	25.2 VDC
Battery Type	Li-Ion 6S
Weight	1,450 g
Charging Environment Temperature	Max. 40 °C

Never mix batteries with different Set-IDs or color-codes.



Battery Charging Station



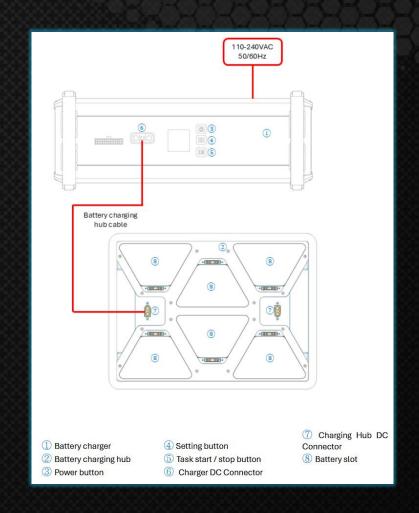
Simultaneous charging of 6 batteries

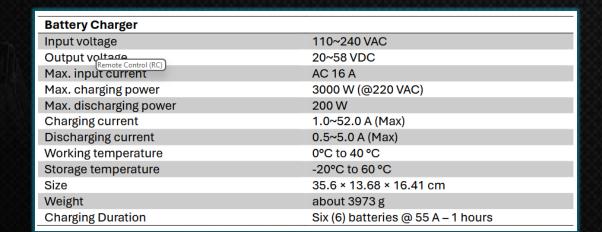


Easy Plug and Charge principle









When using the Fast Charge Mode, no other devices must be plugged into the same Power Outlet. The maximum power could be exceeded resulting in tripping the fuse.



Payload



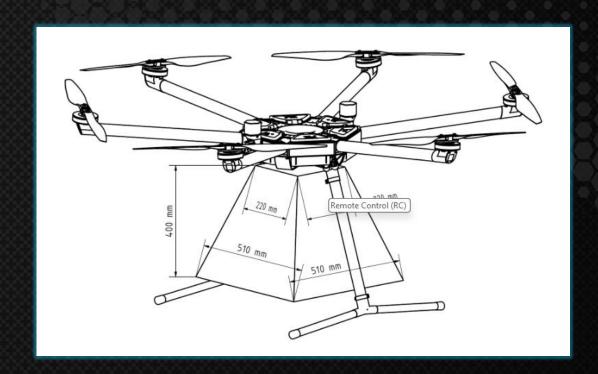
Standalone payload system accommodation

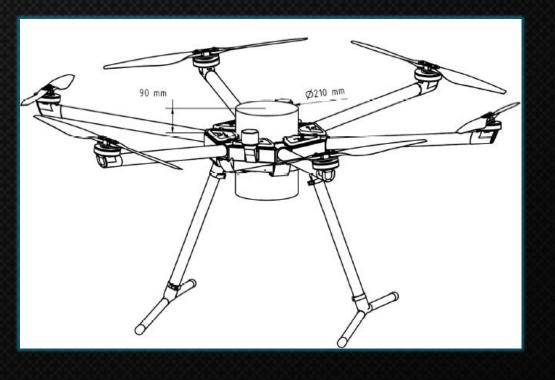




Individual request Integration of payload system

Parameter	Value
Max. Weight	7.49 kg













2.4 SOFTWARE UPDATES AND UAV UPGRADES BY STARCOPTER

starcopter will exclusively manage all software updates for you. In case of critical safety updates, starcopter will notify you via email, perform a guided update with you and handle all occurring software update issues.





starc Apter

The Highdra

