

## AIRCRAFT SPECIFICATIONS



	HELIPLANE LRS 240	HELIPLANE LRS 240 PRO	HELIPLANE LRS 340	HELIPLANE LRS 340 PRO	HELIPLANE LRS PRO 'BELUGA'
<b>AIRCRAFT</b>					
Dimensions	240(L) x115(l) x 30(h) cm	240(L) x115(l) x 30(h) cm	338(L) x150(l) x 50(h) cm	338(L) x150(l) x 50(h) cm	415 (L) x 195 (l) x 75 (h) cm
Flight case	130(L) x 50(l) x 50(h) cm	130(L) x 50(l) x 50(h) cm	138(L) x 65(l) x 50(h) cm	138(L) x 65(l) x 50(h) cm	158 (L) x 65 (l) x 77 (h) cm
<b>WEIGHT</b>					
Weight (without battery)	4,65 kg	4,65 kg	9,5 kg	9,5 kg	15,5 kg
Maximum take-off weight (MTOW)	8 kg	8 kg	18 kg	18 kg	33 kg
Maximum payload weight	1 kg	1 kg	3 kg	3 kg	10 kg
<b>REMOTE CONTROLLER</b>					
Range L.O.S (Radio line of sight)	2,4 GHz - 3 km	800MHz - 50 km or 80 km (L.O.S) 1.4GHz - 50 km or 80 km (L.O.S) 2,4GHz - 20 KM Cloud LTE (3G/4G/5G)	2,4 GHz - 3 km	800MHz - 50 km or 80 km (L.O.S) 1.4GHz - 50 km or 80 km (L.O.S) 2,4GHz - 20 KM Cloud LTE (3G/4G/5G)	800MHz - 50 km or 80 km (L.O.S) 1.4GHz - 50 km or 80 km (L.O.S) 2,4GHz - 20 KM LTE (3G/4G/5G)
<b>BATTERIES</b>					
Quantity	1	1	2	2	2 or 4
Capacity	27 000 mAh	27 000 mAh	30 000 mAh	30 000 mAh	30 000 mAh
<b>PROPELLERS</b>					
Diameter	14 inches	14 inches	22 inches	22 inches	26 inches
<b>ONBOARD GNSS</b>					
Constellation	GPS L1/L2, GLONASS G1/G2, BeiDou B1/B2, Galileo E1/E5b	GPS L1/L2, GLONASS G1/G2, BeiDou B1/B2, Galileo E1/E5b	GPS L1/L2, GLONASS G1/G2, BeiDou B1/B2, Galileo E1/E5b	GPS L1/L2, GLONASS G1/G2, BeiDou B1/B2, Galileo E1/E5b	GPS L1/L2, GLONASS G1/G2, BeiDou B1/B2, Galileo E1/E5b
<b>SPEED</b>					
Operational speed	21 m/s (76 km/h)	21 m/s (76 km/h)	22 m/s (80 km/h)	22 m/s (80 km/h)	22 m/s (80 km/h)
Max speed	33 m/s (119 km/h)	33 m/s (120 km/h)	33 m/s (120 km/h)	33 m/s (119 km/h)	33 m/s (120 km/h)
Wind resistance	12 m/s (43 km/h)	12 m/s (43 km/h)	13.8 m/s (50 km/h)	13.8 m/s (50 km/h)	15 m/s (54 km/h)
<b>TEMPERATURE</b>					
	-10° C / +50° C	-10° C / +50° C	-10° C / +50° C	-10° C / +50° C	-10° C / +50° C
<b>FLIGHT LIMIT</b>					
Max flight height (ASL)	4000 meters	4000 meters	4000 meters	4000 meters	5000 meters
<b>FLIGHT TIME</b>					
Max flight time (without payload)	100 minutes	100 minutes	180 minutes	180 minutes	210 minutes
Max flight time with H30T	/	/	110 minutes	110 minutes	190 minutes
Max flight time with Sony RX1R2 42MP	90 minutes	90 minutes	150 minutes	150 minutes	200 minutes
Max flight time with Sony α7R IV 61MP	80 minutes	80 minutes	135 minutes	135 minutes	200 minutes
<b>MATERIAL</b>					
Structure	Carbon composite and fiber glass	Carbon composite and fiber glass	Carbon composite and fiber glass	Carbon composite and fiber glass	Carbon composite and fiber glass
<b>METEO</b>					
Moderate rain (flight not recommended in rain)	IP46	IP46	IP46	IP46	IP46

## PAYLOADS



**PRO OPTION**



### GROUND STATION SPECIFICATIONS

#### SYSTEM

Dimensions	355 (L) x 282(l) x 80(h) cm
Weight	5980 g
CPU	Intel i7 8565U
RAM	8 Go (standard), 32 Go max
Operating System	Win10/Linux
Battery lifetime	3.5h
Battery capacity	16.8V/13600 mAh (external battery also supported)
Storage capacity	128 Go SSD (standard), 1T max
Network interface	WIFI / Bluetooth / 4G (optional)

#### DISPLAY

Multi-touch screen 1	13.3 inches, 1920*1080, 1000CCD
Multi-touch screen 2	12.1 inches, 1280*800, 1500CCD
Output	RS232 (x4), USB 3.0, LAN, HDMI in, VGA out, Hi-fi
SBUS Port	SBUS IN (x1), SBUS OUT (x2)

#### ONBOARD GNSS (x2)

Constellations	GPS L1/L2, GLONASS G1/G2, BeiDou B1/B2, Galileo E1/E5b
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#### FREQUENCY

Operating frequency	800MHz/902-920MHz 1.4 GHz/2.3 GHz/2.4 GHz/2.5 GHz
Latency	30 ms

#### CONTROL

Diameter	22 inches
Auxiliary channel Main joysticks	2
Auxiliary channel Secondary joysticks	4
RF power	0.1 - 1 w (Adjustable)
Customizable buttons	12



### RELAY ANTENNA SPECIFICATIONS

#### ANTENNA

Frequency	800 MHz : 806 MHz ~ 825 MHz 1.4 GHz : 1427 MHz ~ 1447 MHz 2.4 GHz : 2408 MHz ~ 2488 MHz
SWR	<1.8
Polarisation mode	Vertical
Dimensions	260*260*40mm
Material	ABS
Humidity	10% - 95%
Weight	4 kg
Power	11V à 16V, 35/45
Consumption	<20 W

#### COMMUNICATION PROTOCOL

Autopilot	Mavlink
Remote control	SBUS
Ground Station	433MHz/2.4G/5,8G

#### TRACKING CAPABILITY (50km version only)

Max. horizontal rotation speed	300°/s
Max. vertical rotation speed	60°/s
Max horizontal angle	Unlimited
Max vertical angle	-15° / 135°
Horizontal tracking error	<0.5°
Vertical tracking error	<0.1°



### VIDEO AND DATA TRANSMISSION SPECIFICATIONS

#### SYSTEM

Dimensions	112*63.5*19mm
Weight	143g
Temperature	-40°C ~ +70°C
Humidity	5~95%
Material	ABS
Humidity	10% - 95%
Power	DC 9 ~ 28V (Batterie 3 ~ 6S)

#### ANTENNA

Interface	SMA
Type	Air: Stick Antenna 20cm Ground: Relay Antenna

#### PERFORMANCE

Frequency band	<b>20 km :</b> 2.4GHz : 2408MHz~2488MHz <b>50 km :</b> 800MHz:806MHz~825MHz 1.4GHz:1427MHz~1447MHz 2.4GHz:2408MHz~2488MHz <b>80 km :</b> 800MHz:806MHz~825MHz 1.4GHz:1427MHz~1447MHz
Bandwidth	5/10/20 MHz
EIRP	33 dBm
Bit rate	30Mbps@20MHz
Sensitivity	≤ -92 dBm