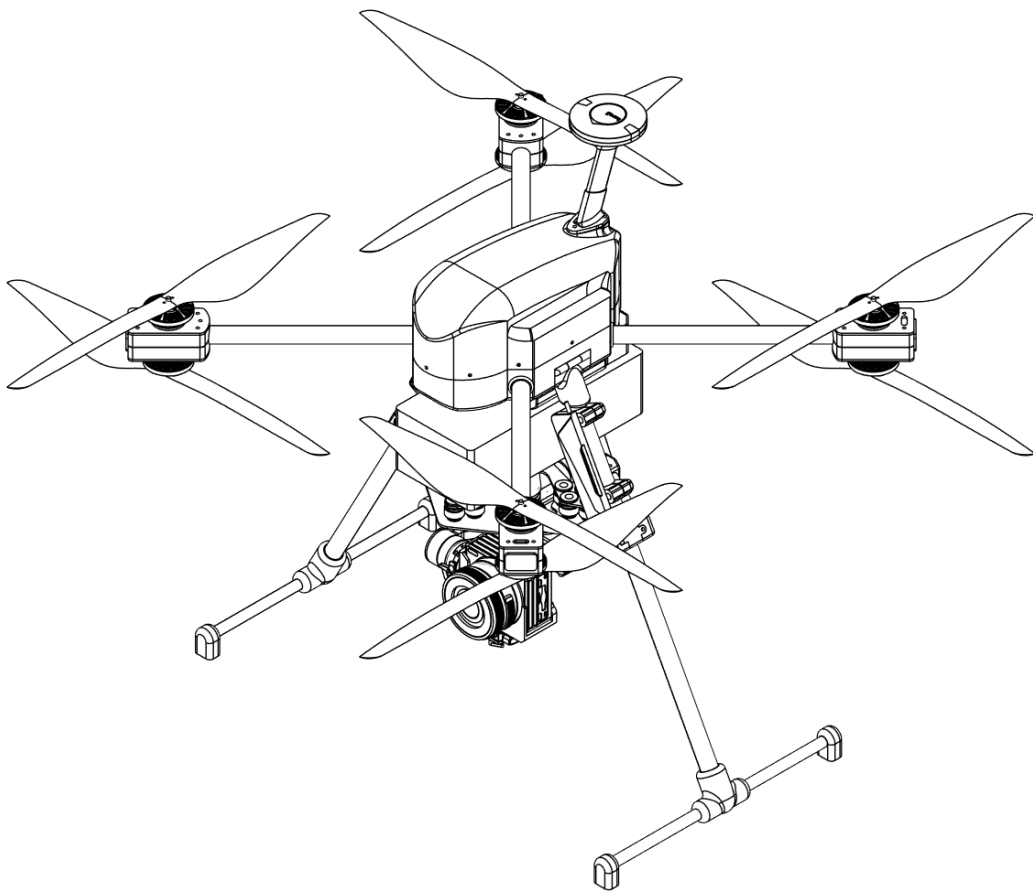


Korbowo/V Aircraft Design S.I.D.

Technical specification



Korbowo/V Aircraft Design S.I.D.

Technical specification

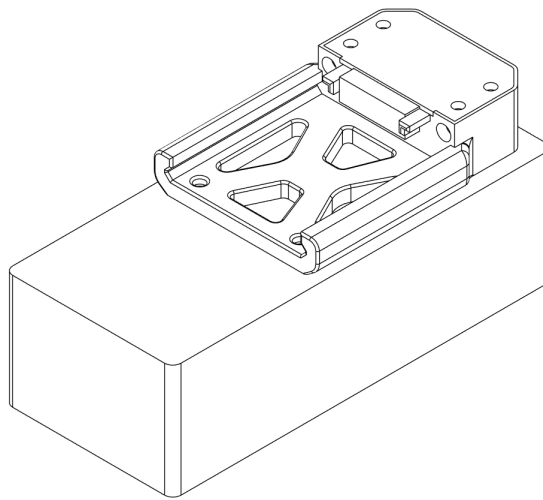
UAV

Dimensions(LxWxH):	50,6x50,6x54cm
Diagonal wheelbase excluding propellers:	610 mm
Diagonal wheelbase including propellers:	994 mm
Maximal weight of the payload:	1,2 kg
MTOM:	5,8 kg
Operating frequency:	2,4 GHz
Transmission power:	≤20 dBm
Maximal lean angle:	Horizontal: +-0.5m in non RTK mode +-6.5 cm in RTK mode *requires base station or NTRIP corrections Vertical: +-0,5m
Maksymalny ką:	Loiter: 20 stopni
Motor configuration:	X8 octocopter
Operating temperature:	-15°C do 30°C
Wind resistance:	16 m/s
Maximal ascent/descent speed:	1 m/s
Flight time:	Up to 56 min (to 0%) * *measured in a windless day with the constant speed of 7m/s
Flight time with full payload:	Up to 32 min (to 0%) *measured in a windless day with the constant speed of 5m/s
Top LED: Arm LED:	Green, Front: green, Back: red,
Ability to continue flight in case of:	up to 4 motors malfunction, up to 4 propellers malfunction, up to 2 IMU malfunction, up to 4 ESC malfunction *excluding a malfunction of multiple components mounted on 1 arm
Capability of flying in loiter, guided and auto flight modes during magnetic interference:	Yes
RemotelID module:	Yes

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Battery pack



Maximal voltage:	25.8 V
Nominal voltage:	22,2 V
Capacity:	20 Ah
Mounting method:	Mounting rail with magnetic lock
Operating temperature:	-10°C to +40°C
Charging temperature:	0°C to +40°C
Storage temperature:	-20°C to 25°C

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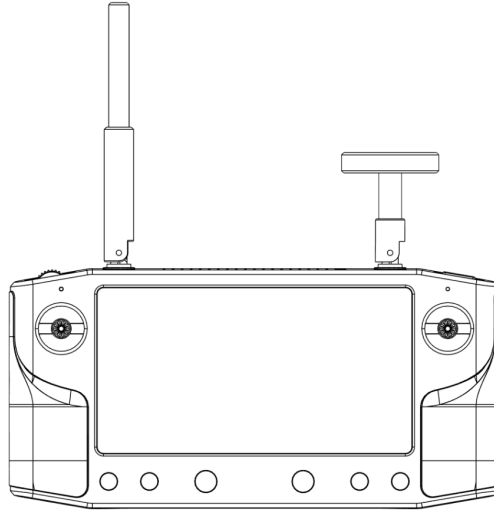
Technical specification

Stacja kontroli naziemnej

Range:	Up to 12 km CE/ up to 20 km FCC
Latency:	≤ 110ms *applies to image transmission, does not take into account camera latency
Szerokość pasma radiowego:	20MHz / 10MHz
Audio:	Built in speaker × 1, Built in microphone × 1,
Screen:	5.46 inch 1080P, touch screen, 16 million colors , 1000 nit maximal brightness
Frequency Band:	2.4GHz ISM Receive sensitivity: -99dBm@20MHz,
BW Interference recovery:	< 1s,
Remote Control:	Hall effect gimbals with removable sticks × 2, scroll wheel × 1, bottom button × 6, top button × 1 (right)
Wireless:	WiFi 5GHz/GPS
Inputs:	MicroUSB × 1, Micro SD × 1
Antenna:	Circular (5dBi) × 1, detachable, omnidirectional (2dBi) × 1, detachable, built-in wifi antenna, built in GPS antenna
Power:	Built in 4950mah LiPo battery
Power consumption:	Support micro USB port 5v 2A current charging
Power consumption:	The average power consumption does not exceed 4W (only picture transmission work, medium screen brightness, WiFi off, GPS off)
Size:	217 × 106.5 × 31mm not including external antenna and rocker

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Flight time [minutes] depending on the payload used

