

Born to be diverse.

SDO 50 V2 VTOL

Factbox SDO 50 V2:

Rotary system: Flettner double rotor system (4 blades)
Rotor diameter: 2x2,82 m
Engine: high performance turbine
Fuel: Diesel / JET A1
Fuel consumption: approx. 15l/hour
Dimensions l/w/h: 2,32 m x 0,7 m x 0,92 m
Empty weight: 40 kg
Payload: 45 kg
MTOW: 85 kg
Max. fuel capacity: main tank 13l
add. tank 2x4l ; 2x7l ; 2 x 13l
Max time to flight: 50 min (main tank)
Max service ceiling: up to 2000m AMSL
Max airspeed: 20 m/s

NOTE! All performance specifications about the SDO 50 V2 and for the GCS, depending on payload configuration.

SWISSDRONES
OPERATING AG

Get more informations:

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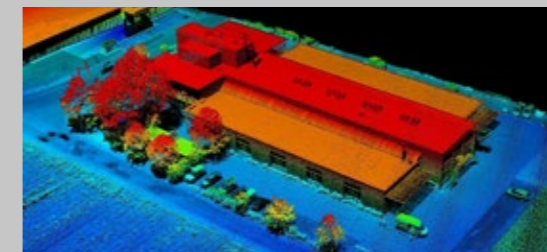
VTOL RPAS „SDO 50 V2“

Our VTOL RPAS „SDO 50 V2“ is a multi purpose, single engine unmanned helicopter system below 150 kg maximum take off weight, that can be operated within or beyond visual line of sight. It is designed to carry different payloads such as cameras, sensors or spraying equipment. Due to the intermeshing rotor system a tail rotor is not required thus resulting in a higher empty weight/ payload ratio compared to other helicopter systems.

Our „SDO 50 V2“ therefore, is able to lift a remarkable payload of up to 50 kg

Ready to fly in 15 minutes!

Only a 2-person crew is needed. Easy to be transported in the back of a SUV. Easy sensor integration.



Geo-info GL70A lidar system

- ✦ 820KHZ pulse rate
- ✦ 50 mp calibrated camera
- ✦ operating range 750 m
- ✦ up to 500 pts/m
- ✦ weight 10 kg



Leica RCD 30 Multispectral

- ✦ CCD size (60 mp/80 mp) 8956 x 6708 / 10320x7752 pixel
- ✦ pixel size (60 mp/80 mp) 6 um / 5.2 um
- ✦ spectral range CH62/82 RGB and NIR (780 - 880 nm) co registered
- ✦ weight 26 kg



Hyperspectral AisaKESTREL

- ✦ AisaKESTREL10 pushbrooming hyperspectral camera
- ✦ spectral range: 400 - 1000 nm contiguous
- ✦ spectral resolution: 2.76 - 7 nm
- ✦ SNR 600:1 peak
- ✦ system weight: 3.1 - 4.8 kg



Merio Xender gyro stabilized gimbal

- ✦ daylight camera sony FCB EV7500 30x optimal zoom
- ✦ infrared camera FLIR Quark 2/640
- ✦ geo- tracking, geo- localization
- ✦ weight 1,3 kg

SWISSDRONES Operating AG

We are a young high tech company based in Sevelen, Switzerland specialized in the development and production of unmanned helicopters (VTOL RPAS, vertical take off and landing, remotely piloted aircraft system) for civil purposes.

Our highly qualified personnel with outstanding expertise in engineering, manufacturing, aviation, geoinformatics and in the film and photo industry, as well as in operating RPAS is able to offer tailor- made solutions for the specific needs of our customers.

In addition to the unmanned helicopter, we offer customers a complete solution by providing the VTOL RPAS including specialized equipment as required.

REMOVE BEFORE FLIGHT