



SDO 50 V2 FOR

AERIAL SURVEILLANCE


SWISSDRONES 

Aerial surveillance will give you unparalleled flexibility compared to traditional intelligence methods. Most of current operations are limited by the stationary nature of the observer or camera. Earlier aerial surveillance methods using helicopters deemed expensive. The SDO 50 V2 with its class-leading payload capability allows the user to choose the best camera system for the mission. Higher payload capacity means you will be able to carry multiple sensors and/or offer a much longer endurance.

A key advantage of the SDO 50 V2 is its ability to collect imagery, ideally suited for reconnaissance or rapid situation awareness, for decision-makers to detect, monitor and act upon potential threats from a safe distance.

Flight time **up to 3.1 hours.**
Gimbal capacity **up to 10 kg.**
Quick **turnaround time. 2 men crew**
Long range digital data link.

Rotary system:	Flettner double rotor system (4 blades)
Rotor diameter:	2 x 2,82 m
Engine:	High performance turbine
Fuel:	JET A1
Fuel consumption:	Approx. 15 L / hour
Dimensions l / w / h:	2,32 m x 0,7 m x 0,92 m
Data Link:	40 km, extendable, radio line of sight
Empty weight:	42 kg
Max. payload:	45 kg (including fuel)
MTOW:	87 kg (including fuel)
Max. fuel capacity:	Main tank 13 L add. tank 2 x 4 L ; 2 x 7 L ; 2 x 13 L ; 2 x 17 L
Max. flight time:	Up to 3.1 hours
Max. service ceiling:	10,000 ft (3,000 m) AMSL
Max. indicative air speed:	20 m/s (72 km/h)
EO sensor:	HD 720 p / 1270 x 720 pixel resolution 30 x optical zoom
IR sensor:	SD 640 x 480 pixel resolution 3 - 5 μ cooled 15 x IR zoom lens 8,6 km human detection 2,9 km human recognition
Optional items:	Laser rangefinder up to 5000 m Laser illuminator class II Ib



NOTE! All performance data about the SDO 50 V2 and for the GCS are subject to change, depending on final payload configuration.