DRONE LOGISTICS
MATTERNET M2V9: SPECIFICATIONS (JANUARY 2020)

Swiss Post works with hospitals to transport laboratory samples using drones – providing a valuable service to patients, doctors and caregivers. A state-of-the-art delivery drone is used: the M2V9, manufactured by Matternet.

General information

Manufacturer: Matternet, Inc.
Model: M2V9
Swiss FOCA approval: since March 2017
Aircraft type: Quadrocopter
Drive: electric motors
Power supply: Lithium-ion battery
Communication: Mobile GSM

Aircraft

Dimensions (without rotor blades): 80 x 80 x 26 cm
Dimensions (with rotor blades): 128 x 128 x 26 cm
Maximum take-off weight (gross): 13.2 Kg

Safety features

Redundant parachute attachment
Multi-level 3D geofence
Active traffic information and collision avoidance system (FLARM)
White strobe lights in the arms
Audible warning signal in case of parachute landing

Load capacity

Maximum payload: 2 kg
Volume: 4 L
Dimensions: 23 x 15 x 12 cm
Masse: 23 x 15 x 12 cm

Performance and weather conditions

Maximum range: 20 km with 1 kg payload, 15 km with 2 kg
Flight altitude: about 110 m above ground
– Maximum speed: 16 m/s (57.6 km/h)
– Weather conditions: Between -10 and +40 °C
– With visible humidity up to: +5 °C
– Wind up to 6.4 m/s, gusts up to 9.6 m/s

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