



MULTIROTOR FOR
SECURITY AND DEFENCE

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AV-X6V4 "Scorpion"



The **AV-X6V4** is the logical and best choice for UAVs for defense and security, as it is a powerful tool for detecting potential threats.

AV-X6V4 can be used in all tasks related to detection, recognition and tracking of dangerous targets, and its **high resistance and reliability** allow it to be used in severe conditions in strong winds and a wide temperature range.

Together with the **Workswell WIRIS Enterprise camera**, the **AV-X6V4** is the perfect choice for providing surveillance and monitoring of large areas and distances day and night.



Dimensions: 1300 mm diameter / 700 mm height



up to 13 kg maximum take-off weight (could vary depending on the payload)



up to 7,5 kg empty weight (could vary depending on the chosen equipment onboard)



up to 40 min maximum flight time (depending on the weather conditions)



6S1P LiPo battery, 1 x 30 000 mAh or 2 x 17 000 mAh



Autopilot Pixhawk 2.1 or DJI A2 with multiple flight modes



Ground Control Station for control and telemetry



up to 40 km maximum distance for effective control / up to 5 km with integrated control



Vertical accuracy of the positioning $\pm 0.8\text{m}$, horizontal accuracy $\pm 2.5\text{m}$ with the usage of GNSS or 2.5 cm with RTK



Automatic flight on route with automatic landing



From -10°C to $+40^{\circ}\text{C}$ operational outside air temperature



IP 55 protection and CE certification





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Main Parameters

| | |
|----------------------------------|---|
| Dimensions: | 1300 mm diameter between the engines 700 mm height |
| Empty weight: | up to 7,5 kg |
| Maximum take-off weight: | up to 13 kg |
| Maximum flight time: | up to 40 min |
| Maximum payload: | 5,5 kg |
| Maximum speed: | up to 65 km/h |
| Power supply: | 24VDC |
| Battery: | 6S1P, LiPo, 30 000 mAh |
| Operational outside temperature: | -10°C up to +40°C |
| Wind: | up to 35 km/h |
| Maximum operational altitude: | min 2000 m |
| Protection and certification: | IP55 and CE certification |

Equipment

| | |
|-----------------|---|
| Autopilot: | DJI A2 / Pixhawk 2.1 (upon customer choice) |
| Telemetry: | Lightbridge 2 / (upon customer choice) |
| Manual control: | DJI / 16 channels (upon customer choice) |
| Distance: | up to 5 km / 40 km (upon customer choice) |

Optional equipment

| | |
|-------------------------|--|
| Telemetry | up to 80 km (upon customer choice) |
| Ground Control Station: | Customized or tablet |
| Software: | DJI GO, Pix4D, Drone Deploy и др. |
| Special equipment: | NDVI and CWSI cameras Thermal cameras Night vision cameras |

