



# Advanced Remote Controlled Aerial System

[www.aerovision.bg](http://www.aerovision.bg)  
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## ARCAS 1100



Dimensions: 1100 mm diameter / 620 mm height



up to 45 kg maximum take-off weight (could vary depending on the payload)



13 kg empty weight (could vary depending on the chosen equipment onboard)



up to 60 min maximum flight time (depending on the weather conditions and payload)



1 x 14S1P LiPo battery, 54 000 mAh



Autopilot Pixhawk 2.1 / Microtek V7-AG (military grade) with multiple flight modes



Ground Control Station for control and telemetry



more than 40 km maximum distance for effective control / up to 10 km with integrated control



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



Automatic flight on route with automatic take-off and landing



From  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  operational outside air temperature



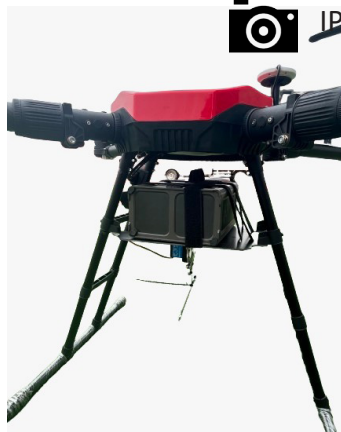
IP 55 protection and CE certification



**ARCAS 1100™** is one of the latest and innovative product from **Aero Vision**. It is distinguished by its exceptional strength and long flight endurance – unreachable for most of electrically driven multirotors.

One of its important features is the high payload and capabilities to carry different thermal cameras, dropping payloads which makes it suitable for security and defense applications, Search And Rescue operations, surveillance and monitoring.

**ARCAS 1100™** has a flight time of 1 hour empty and efficient flight of **30 min with 10 kg of payload**.





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# ARCAS

# 1100

## Main Parameters

<b>Dimensions:</b>	1100 mm diameter between the engines
	620 mm height
<b>Empty weight:</b>	13 kg
<b>Maximum take-off weight:</b>	up to 45 kg
<b>Maximum flight time:</b>	up to 60 min
<b>Maximum payload:</b>	22 kg
<b>Maximum speed:</b>	up to 72 km/h
<b>Power supply:</b>	58VDC
<b>Battery:</b>	1 x 14S1P, LiPo, 54 000 mAh
<b>Operational outside temperature:</b>	-40°C up to +70°C
<b>Wind:</b>	Level 3-4
<b>Maximum operational altitude:</b>	3000 m
<b>Protection and certification:</b>	IP55 and CE certification

## Equipment

<b>Autopilot:</b>	Pixhawk 2.1 / Microtek V7-AG (military grade)
<b>Telemetry:</b>	Herelink / Skydroid H16 (upon customer choice)
<b>Manual control:</b>	16 channels
<b>Distance:</b>	up to 10 km / 40 km (upon customer choice)

## Optional equipment

<b>Telemetry</b>	up to 80 km (upon customer choice)
<b>Ground Control Station:</b>	Customized GCS or tablet
<b>Software:</b>	Pix4D, Drone Deploy and others
<b>Special equipment:</b>	NDVI and CWSI cameras
	Thermal cameras
	Night vision cameras

