

# HORUS



**HO**vering

**R**emote controlled

**U**ltra-light

**S**ensor platform

## TECHNICAL DATA



Dimensions and weights	Quadcopter	Octocopter	Dodecaopter
Length	700 mm	1300 mm	1300 mm
Width	1000 mm	1000 mm	1000 mm
Height	400 mm	400 mm	400 mm
Frame weight	1500 g	2400 g	2900 g
Maximum takeoff weight	3800 g	6300 g	8500 g
Maximum flight altitude	450 m	450 m	450 m
Maximum flying time	40 min	40 min	40 min
Maximum total thrust	8800 g	17,600 g	26,400 g

### Payload capacity

Modular concept

modular exchange concept for payload  
fixation of modules by means of quick releases at bar support  
quick exchange of modules within a few seconds

Number of container attachments	2	2	2
Construction space / container attachment	150 x 300 x 500 mm	400 x 300 x 500 mm	400 x 300 x 500 mm
Maximum payload	1000 g	3000 g	4500 g



## Built-up

Construction	combination of supporting shell elements and tubes from carbon fiber composite
	watertight connection technology
	watertight cooling concept for power electronics
	engine support from carbon fiber tubes and panels
	improved vibration decoupling

## Avionics

Sensors	triaxial acceleration sensor
	triaxial yaw-rate sensor
	triaxial magnetic field sensor
	barometric altimeter
	GPS antenna
Communication	telemetry 866 MHz
	telemetry 2.4 GHz and
	telemetry 5.8 GHz
	video downstream 5.8 GHz
	12-channel remote control 2.4 GHz
Electronics	microcontroller boards for sensor data fusion and calculation of correcting variables for motor control
	output of compensation correcting variables for stabilization of payload and cameras
	live transmission of relevant flight and control data
Flight modes	manual control with position stabilization
	automatic control of altitude
	dynamic control of GPS position
	autonomous approach of GPS routes
	autonomous takeoff / landing

## Power supply

Batteries	lithium-polymer batteries
	6100 mAh
	12,200 mAh
	18,300 mAh
On-board voltage	17 V

