

WASHER PRO-22

Next Generation

POWER WASHING DRONE



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WASHER PRO-22

is designed with cutting edge aviation technology specifically to satisfy all the needs of the operators in world-wide emerging **Drone Power Washing** industry.

WASHER PRO-22



MULTI PURPOSE

WASHER PRO-22 Tethered Washer Drone utilizing high-pressure washing technology is designed for intensive cleaning requirements and tougher surfaces which requires long flight time. **WASHER PRO-22** Tethered Washer Drone is exceptionally effective for areas that have accumulated stubborn stains, or heavy grime or require intense cleaning power. **WASHER PRO-22** Tethered Washer Drone connected to high-pressure water jets to dislodge and remove oil stains, graffiti, chewing gum, and deeply embedded dirt. pressure washing is particularly suitable for concrete driveways, sidewalks, and heavily soiled surfaces that demand a more aggressive cleaning approach. With this method, we excel at restoring hard surfaces to their original, pristine condition, leaving your property looking renewed and refreshed

ONE DRONE FOR ALL



WASHER PRO-22

Multi-floor Building Facades

Glass / Alucobond / Stone exteriors

Large Scale Building

Shopping Malls / Arenas / Stadiums

Solar Energy Fields

Also Detect Cell Failures (*)

Wind Turbines

Snow Drift & Ice Removal

Outdoor Signage

Billboards / Signs

Cruise Ships

Mega Yachts

Home Maintenance

Roof cleaning / Ice removal



Features at a glance:



Tether Power
System Works
on **110V** and
220V



Supports soft &
high pressures up
to **300 bar** -
4500 psi.



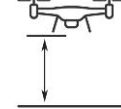
Standard Hose
and parts easy to
fit your existing
pumps.



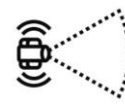
Easy to Operate Remote
Controller with 7" LCD
and aa user friendly
interface



50 m tethered
altitude (AGL) 300m
operational altitude
with battery



360 Degree Anti-Collision
and crash avoidance
autonomous system with
LIDAR.



High Precision
Dual GPS
antennas with 1
cm. precision.



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UNMATCHED PERFORMANCE WITH
NON-STOP FLYING



INCREASE YOUR BUSINESS ROI
UP TO 500%



UP TO 80% COST SAVINGS COMPARED
TO FLIGHTS WITH BATTERY



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Tether Power Box Provides a secure power cable connection from the ground

Key Benefits

- Enables non-stop flying
- Eliminating the need for frequent battery swaps
- Significant savings in operation time and increased mission efficiency.



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POWER WASHING DRONE

key features

POWER BOX

NO MORE

BATTERY REPLACEMENT

WASHER PRO-22 is a tethered drone. Unique Power From Ground (PFG) technology gives **WASHER PRO-22** **Non-Stop** flight ability which provides unprecedented cost efficiency and saves operation time.

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POWER WASHING DRONE

key features

Advanced Safety & Collision Avoidance
SAFER DRONE OPERATIONS

Key Benefits

360° Collision Avoidance :
Integrated laser radar (Lidar) sensor provides full
surrounding awareness and AUTONOMOUS collision avoidance.

360° LIDAR

Real Collision Avoidance

WASHER PRO-22 is equipped with 360 LiDAR which significantly enhances drone collision avoidance through accurate object detection, real-time data processing, and improved depth perception. **WASHER PRO-22** can navigate in complex environments safely and autonomously where GPS might be unreliable, enabling robust navigation.

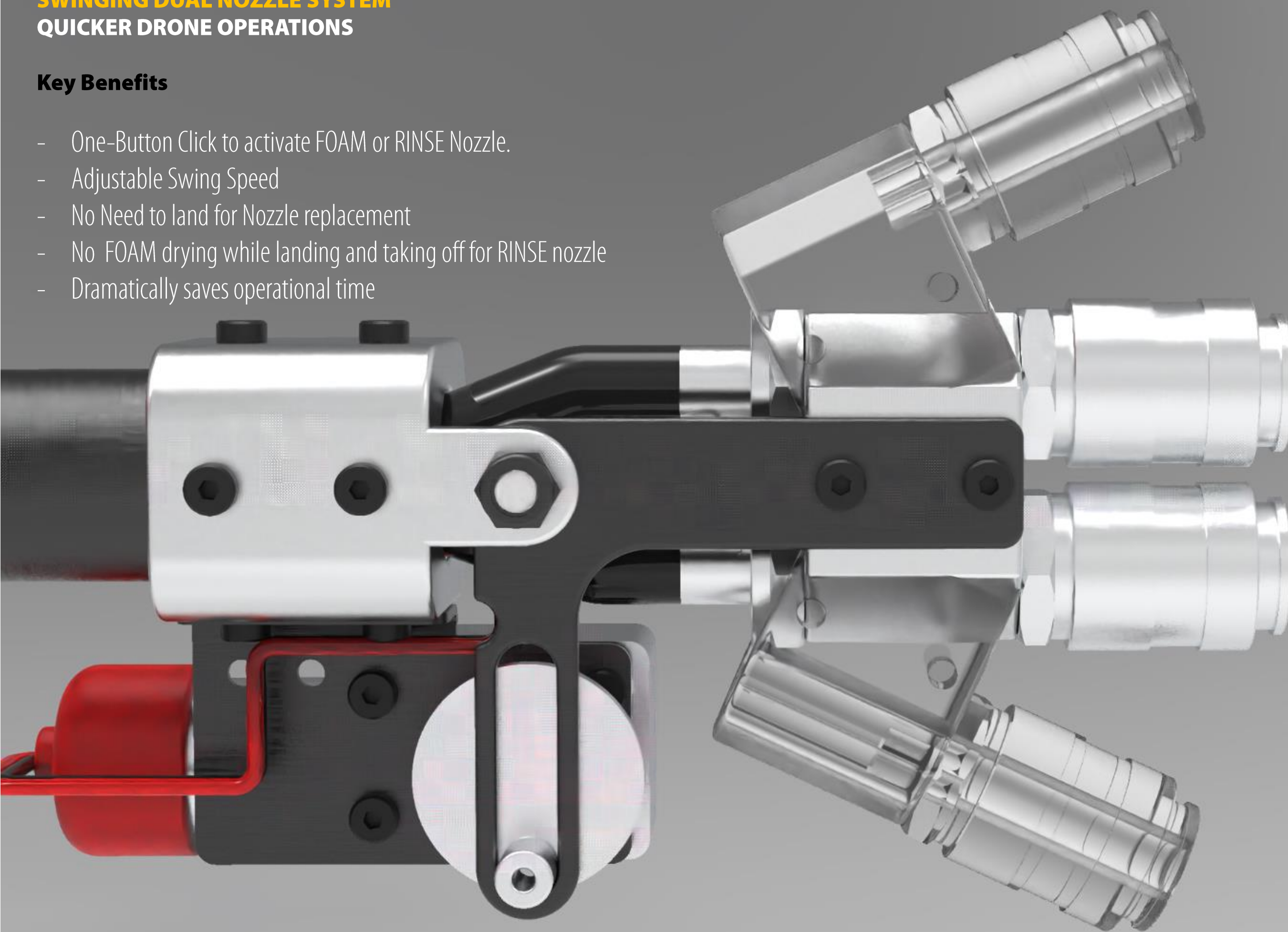
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SWINGING DUAL NOZZLE SYSTEM
QUICKER DRONE OPERATIONS

Key Benefits

- One-Button Click to activate FOAM or RINSE Nozzle.
- Adjustable Swing Speed
- No Need to land for Nozzle replacement
- No FOAM drying while landing and taking off for RINSE nozzle
- Dramatically saves operational time



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key features

DUAL NOZZLE

NO MORE

NOZZLE REPLACEMENT

WASHER PRO-22 has 35 degrees **swinging dual-nozzle system** with separate foam and rinse nozzles which offers unparalleled operational advantages. The ability to switch between foam application and rinsing quickly enhances cleaning efficiency. **WASHER PRO-22** becomes the best drone for targeted cleaning, applying foam where needed and rinsing without delay reducing the overall wash time and water consumption compared to systems that require nozzle changes or separate devices for each function, improve the quality of the wash by ensuring consistent application of foam and thorough rinsing



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POWER WASHING DRONE
key features

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NOZZLE CONTROLLER

HEAVY DUTY SERVO MOTOR

PATENT PENDING single rotation DUAL
CONTROL design eliminated pressure
locks on spherical valves

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key features

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Visual & Illumination
WORK AT NIGHT

Key Benefits

- LED Headlights
- Four wide-angle LED head lights for optimal performance during night operations.
- Enhances situational awareness, even in low-light conditions.

LED HEADLIGHT

WORK AT NIGHT AS DAY

WASHER PRO-22 has four wide-angle LED head lights for performance enhancement during night operations which provides unprecedented cost efficiency and saves operation time by providing the ability to fly at night as well.

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key features

Imaging
WORK DAY or NIGHT
RECORD WITH 4K resolution

Key Benefits

- 4K Gimbal Camera ensures high-definition visual feedback for precise operations
- Record entire operation on Mini-SD card

**4K GIMBAL
CAMERA**

Watch & Record

WASHER PRO-22 has 4K Gimbal camera which ensures high-definition visual feedback for precise operations.

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key features

FLIGHT SAFETY

PRECISE GNSS

WASHER PRO-22 Dis equipped with differential **GPS (GNSS)** which achieves centimeter-level positioning precision

RS3100 compass, provides precise magnetic field measurements with excellent signal-to-noise ratios and no drift enhancing **WASHER PRO-22** navigation and mission planning by providing accurate directional data

Flight Safety with DUAL GPS & Compass
Centimeter base precision

Key Benefits

Differential GPS (GNSS) : Achieves centimeter-level positioning precision.

Maximizes operational safety and navigational accuracy during complex missions.

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key features

**MAINTENANCE
ENGINEERING**

EASE OF MAINTENANCE

WASHER PRO-22 : is designed and engineered to have easiest maintenance access to all components including avionics and power boards as well as data link and telemetry.

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ADT

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key features



**COMPACT & ROBUST
DESIGN**

EASY TO CARRY

WASHER PRO-22 : A compact, robust yet agile drone developed for demanding drone power washing applications.

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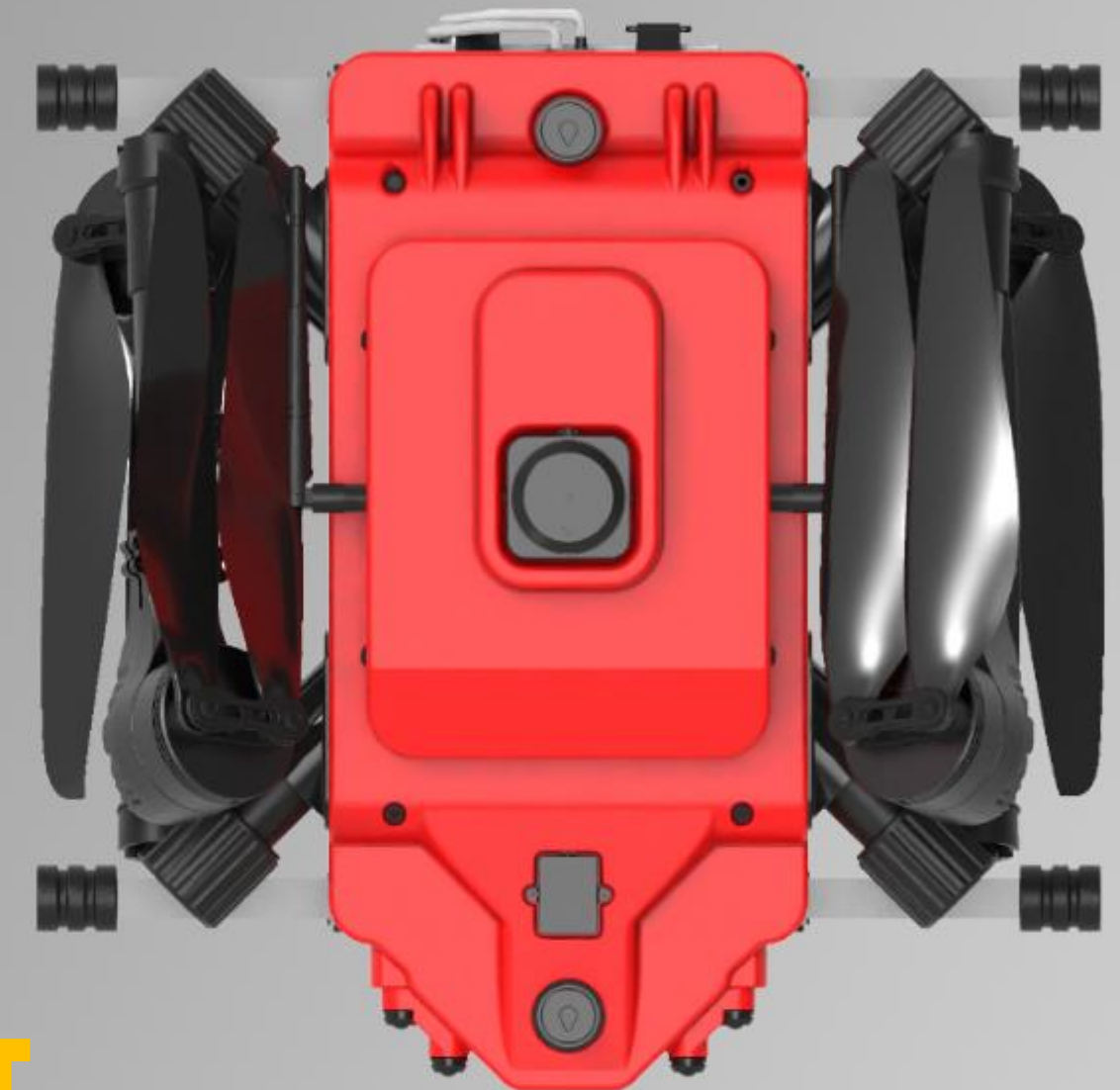
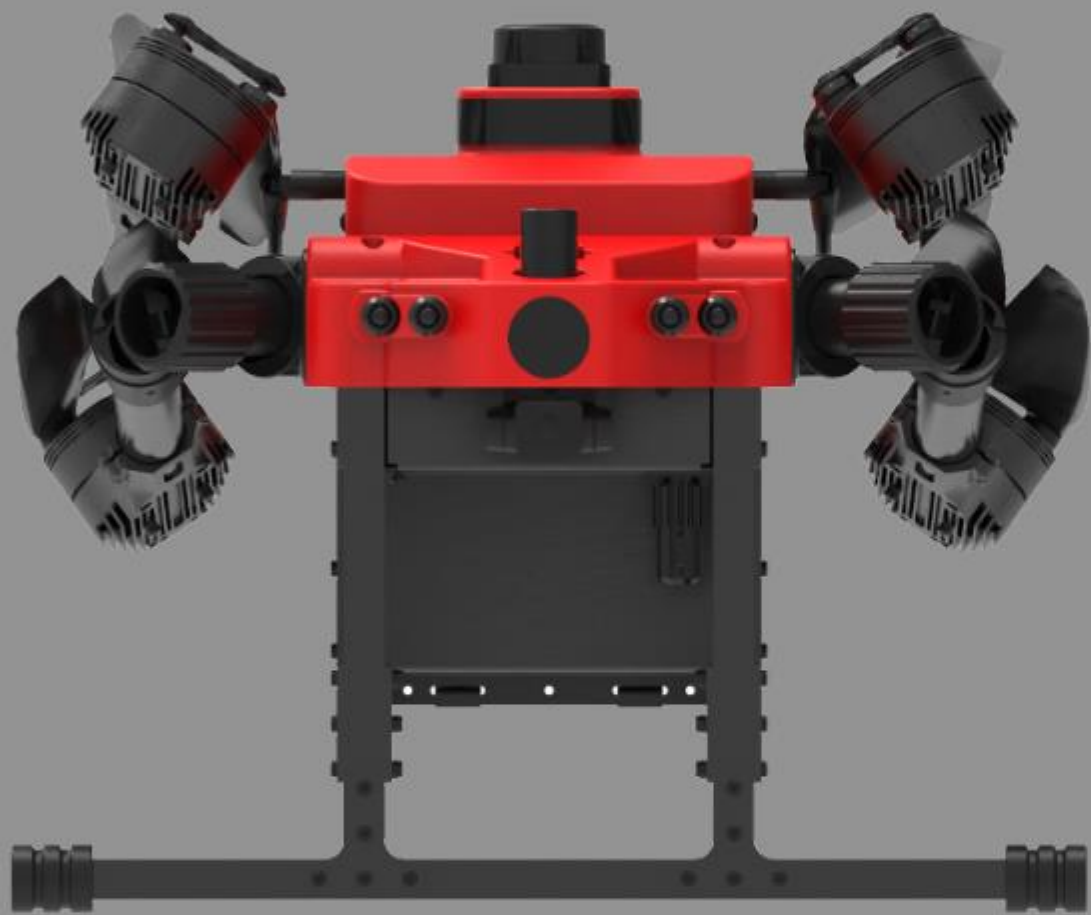


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parameters

Aircraft

22" Foldable Propellers
Dimensions (unfolded, without propellers)

810×670×430 mm (L×W×H)
475×670×430 mm (L×W×H)

Dimensions (unfolded, with propellers)

Diameter : 58 cm

Aircraft

Weight

14 kg
Max Takeoff Weight

23 kg

Power Box

Weight

16 kg

Dimensions (unfolded, without propellers)

55×40×30 cm (L×W×H)

GNSS Positioning Accuracy (RTK FIX)

1 cm + 1 ppm (horizontal)
1.5 cm + 1 ppm (vertical)

Max Angular Velocity

Pitch: 300°/s
Yaw: 100°/s

Max Pitch Angle

30°

Max Ascent Speed

6 m/s

Max Descent Speed (vertical)

5 m/s

Max Tilted Descent Speed

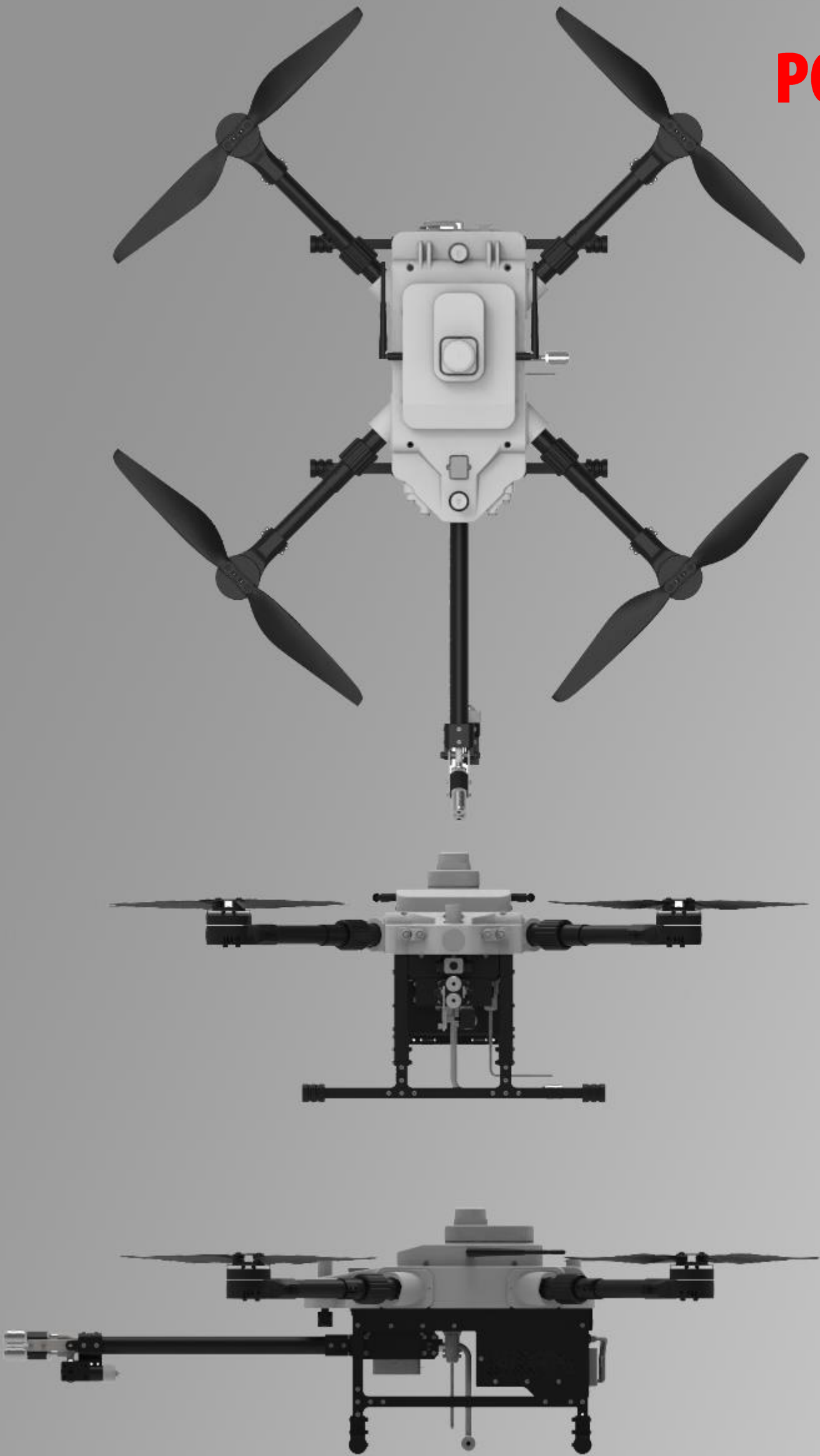
7 m/s

Max Horizontal Speed

23 m/s

Max Flight Altitude

50 m WITH TETHER POWER CABLE
3000 m WITH BATTERY



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distributors

HEAD QUARTERS

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SCAN TO WATCH
OPERATION VIDEOS



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For DISTRIBUTORSHIP ENQUIRIES please send an email to : cengizs@imcagrotech.com

