# PAAPL

Peace Arms & Ammunitions Private Limited
A FIRST LINE OF DEFENSE TO SAVE LIVES



COMMITMENT COMPETENCE CHARACTER

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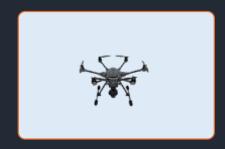
**DRONES – ANTI DRONES** 



Multi Role Drones



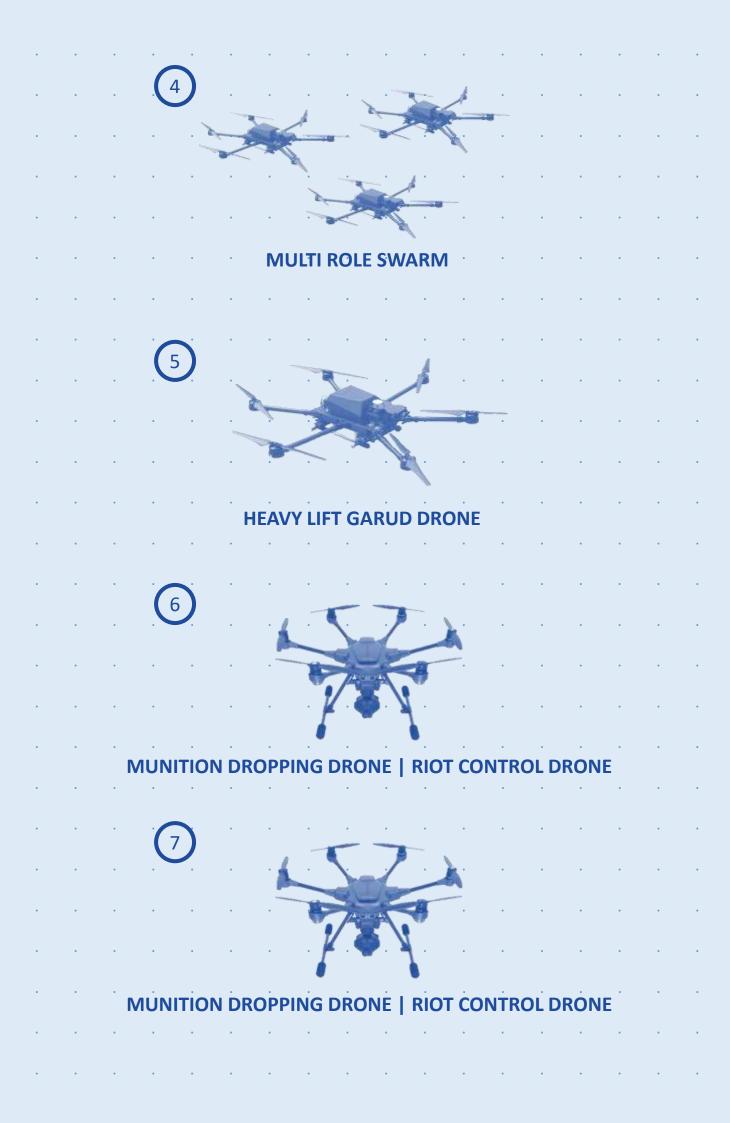
Riot control drone



Interceptor anti drones



Medical drone



#### **DRONES – ANTI DRONES**



A FIRST LINE OF DEFENSE TO SAVE LIVES

MODEL NO: 05\_PAAPL\_ HLG - UAV\_ 03-PA

# 5 MULTI ROLE DRONE

Interconnected, co operative drones that are capable of working together to overwhelm challenging tasks.

- 1. Audio communication: Loud speaker based communication will ensure that any particular information that needs to be conveyed is being able to conveyed without putting soldiers at any unnecessary risk.
- 2. Area illumination: 125,000 lumen area illumination enables that the drone will be able to illuminate certain areas providing selective illumination and the chance of surprise attack.
- 3. Thermal surveillance: Long distance thermal camera integration ensures rigorous scanning of the environment for detection of
- 4. Autonomous navigation: Full autonomous motion ensures mission completion even under jamming and other non line of sight communication.
- 5. Pan tilt zoom camera for surveillance: Full 360 degrees coverage independent vibration damped imagery with zoom capability to ensure surveillance and tracking of target.
- 6. High precision landing and take off: High precision landing and take off to ensure take off and landing from top of a vehicle and mobile drone take off and landing platforms.
- 7. Ai enabled suspicious activity detection: High precision AI enabled system to ensure detection and tracking of suspicious activities.

#### **APPLICATIONS INCLUDE**

- Targeted Impact
- Coordinated Activity
- Multiple Coordination



# MODEL NO: 05\_PAAPL\_ HLG - UAV\_ 03-PA

#### **MULTI ROLE DRONE**



#### **SPECIFICATIONS**

Dimensions

Weight : Less than 18 kg Width : Less than 2900 mm Length : Less than 2900 mm : Less than 450 mm Height

Operations

Lithium polymer rechargeable batteries

30 – 35 minutes mission dependent flight time

Pay load : **15.0** kg

Mechanical

Material : Carbon fiber

Compactness: Frame

Frame : Hexa-copter

RF transmitter and video relay

: **2.4** GHZ - **5.8** GHZ Frequency : Rechargeable Batteries Communication: Encrypted

: **5** Km los Range

Maneuverability

: 50 km/h Max speed Operational : Water proof

Wind condition: 10 knots Gust condition: 15 knots

User\_interface

Fail safes for auto correction in any eventuality Precision landing | take off | localization

Autonomous take off and landing

Multiple GPS integration | dual IMU redundancy

Integrated GCS application software

Real time video feedback

Geographic map based feedback

Integrated sensors

Gyroscope | accelerometers | GPS

Multiple high precision GPS redundancy

Accuracy : cm in air

Technology : Global Navigation Satellite System

Satellite : 18 satellites connectivity

Camera and gimbal

Video communication : Real time display : Gimbal 3x stabilized Image Camera : 12 Megapixels

Video communication : 4k Real time communication

Pan and tilt control : Pan - 300°, Tilt - 90



#### MODEL NO: 04\_PAAPL \_ MRS - UAV\_ 03-PA

# INTERCEPTOR ANTI DRONE

Interceptor drone is a high speed drone with target drone intercepting mechanism. It can intercept an invader drone with the help of net trapping. FPV view can be used for high speed or long distance operation.

User supported flying modes are helpful in controlling the drone through windy condition. Its mechanism can be adjusted for reuse purposes

Live video with Zero lag & clear feed helps to control the drone in tricky areas and monitoring the invader drone motion.

#### **FEATURES**

- Real time video feed with zero lag.
- Adjustable catcher net.
- Reception, recording, storage and playback of payload information with real time display
- Control of manual modes
- Preparation and upload of the mission
- · Real-time parameters and battery monitoring





## MODEL NO: 04\_PAAPL \_ MRS - UAV\_ 03-PA

#### INTERCEPTOR ANTI DRONE



#### **SPECIFICATIONS**

#### **DIMENSIONS & WEIGHT**

Length : 250 mm

Width : 250 mm height : 125 mm

Frame : QUAD x frame

Weight : 750 gm (battery included)

: 250 gm (net catcher)

#### MANUVERABILITY

Drone Max speed : 150 km/h

RC Max range : 2 km (LOS)

Video range : 2 km

Launch altitude: 1000 m (ASL)

Operating altitude : 100 m

Operating temperature : -10 to 55 deg Celsius

Landing : manual

#### POWER SUPPLY

Operating voltage : 14.7 – 16.8 VDC

Batteries : li-po batteries Operation time : 10 minutes

#### **SAFETY SYSTEMS**

Failsafe : Failsafe to land

# **CONTROLS**

• 16 channels RC controlled

2.4 GHz (enhanced encription)

Manual Throttle control

· Servo activating switches

• On screen display parameters

Modes switches

Failsafe switches

#### **VIDEO TRANSMISSION SYSTEM**

Display unit : FPV goggles

Video transmission : integrated system
Transmitting frequency : 5500 – 6000 MHz

Video quality : 720 p with no latency

Camera : 5 MP front fixed camera

#### **DRONES – ANTI DRONES**



A FIRST LINE OF DEFENSE TO SAVE LIVES

MODEL NO: 05\_PAAPL \_ HLG - UAV\_ 03-PA

# 5 MEDICAL DRONE

Interconnected, co operative drones that are capable of working together to overwhelm challenging tasks.

- 1. Audio communication: Loud speaker based communication will ensure that any particular information that needs to be conveyed is being able to conveyed without putting soldiers at any unnecessary risk.
- 2. Area illumination: 125,000 lumen area illumination enables that the drone will be able to illuminate certain areas providing selective illumination and the chance of surprise attack.
- 3. Thermal surveillance: Long distance thermal camera integration ensures rigorous scanning of the environment for detection of
- 4. Autonomous navigation: Full autonomous motion ensures mission completion even under jamming and other non line of sight communication.
- 5. Pan tilt zoom camera for surveillance: Full 360 degrees coverage independent vibration damped imagery with zoom capability to ensure surveillance and tracking of target.
- 6. High precision landing and take off: High precision landing and take off to ensure take off and landing from top of a vehicle and mobile drone take off and landing platforms.
- 7. Ai enabled suspicious activity detection: High precision AI enabled system to ensure detection and tracking of suspicious activities.

#### **APPLICATIONS INCLUDE**

- Targeted Impact
- Coordinated Activity
- Multiple Coordination



# MODEL NO: 05\_IPAAPL\_ HLG - UAV\_ 03-PA

#### **MEDICAL DRONE**



#### **SPECIFICATIONS**

Dimensions

Weight : Less than 18 kg
Width : Less than 2900 mm
Length : Less than 2900 mm
Height : Less than 450 mm

Operations

Lithium polymer rechargeable batteries

30 – 35 minutes mission dependent flight time

Pay load : **15.0** kg

Mechanical

Material : Carbon fiber

Compactness: Frame

Frame : Hexa-copter

RF transmitter and video relay

Frequency : **2.4** GHZ - **5.8** GHZ Batteries : Rechargeable Communication : Encrypted Range : **5** Km los

Camera and gimbal

Video communication : Real time display

Image: Gimbal 3x stabilizedCamera: 12 Megapixels

Video communication : 4k Real time communication

Pan and tilt control : Pan − 300°, Tilt − 90

## Maneuverability

Max speed : 50 km/h
Operational : Water proof

Wind condition: 10 knots
Gust condition: 15 knots

#### User\_interface

Fail safes for auto correction in any eventuality Precision landing | take off | localization Autonomous take off and landing

Multiple GPS integration | dual IMU redundancy

Integrated GCS application software

Real time video feedback

Geographic map based feedback

#### Integrated\_sensors

Gyroscope | accelerometers | GPS

### Multiple high precision GPS redundancy

Accuracy : cm in air

Technology : Global Navigation Satellite System

Satellite : 18 satellites connectivity





MODEL NO: 06\_PAAPL \_ MDD | RCD - UAV\_ 03-PA

# 6 RIOT CONTROL DRONE

Munition Dropping Drone- Riot Control Drone is a compact drone with a specific objective to be achieved. It can be used to drop items like tear gas grenade for riot control, flags marching in parade and flower dropping. It can also be used to drop seeds.

- 1. Tear gas grenade drop: Mid air safety pin triggering capability enables the drone to be armed only when necessary ensuring safety at all times.
- 2. Flag carrying and flower dropping: Flag carrying and flower dropping integration to be used during military drills and other activities.
- 3. Seed dropping: Seed dropping for variety of terrains with individual and bulk dissemination
- 4. Supply of medical equipment | ammunition supplies : 15 kg of payload capability ensures that the drone can supply pin pointed medical equipment or supplies to troops to ensure without risking additional

#### **APPLICATIONS INCLUDE**

- Targeted Impact
- Autonomous Surveillance Mission
- Suicidal Autonomous Missions





# MODEL NO: 06\_PAAPL \_ MDD | RCD - UAV\_ 03-PA

#### **RIOT CONTROL DRONE**



#### **SPECIFICATIONS**

Dimensions

Weight : Less than 12 kg
Width : Less than 2100 mm
Length : Less than 2100 mm
Height : Less than 250 mm

Operations

Lithium polymer rechargeable batteries

30 – 35 minutes mission dependent flight time

Pay load : 3 kg

Mechanical

Material : Carbon fiber

Compactness: Frame

Frame : Hexa-copter

RF transmitter and video relay

Frequency : **2.4** GHZ - **5.8** GHZ Batteries : Rechargeable Communication : Encrypted Range : **5** Km los

Camera and gimbal

Video communication : Real time display Image : Gimbal 3x stabilized Camera : 12 Megapixels

Video communication : 4k Real time communication

Pan and tilt control :  $Pan - 300^{\circ}$ , Tilt  $- 90^{\circ}$ 

Maneuverability

Max speed : 50 km/h
Operational : Water proof

Wind condition: 10 knots Gust condition: 15 knots

User\_interface

Fail safes for auto correction in any eventuality Precision landing | take off | localization

Autonomous take off and landing

Multiple GPS integration | dual IMU redundancy

Integrated GCS application software

Real time video feedback

Geographic map based feedback

Integrated\_sensors

Gyroscope | accelerometers | GPS

Multiple high precision GPS redundancy

Accuracy : cm in air

Technology : Global Navigation Satellite System

Satellite : 18 satellites connectivity

