

## Simple & Low Cost Active Drone Capture

### Introducing AeroSnare®

Capturing an illegal drone in flight is an enormous challenge, especially in parts of the world where there are restrictions on the use of force, radio frequency jamming and other drone mitigation technology. To address this issue, we have developed AeroSnare®.

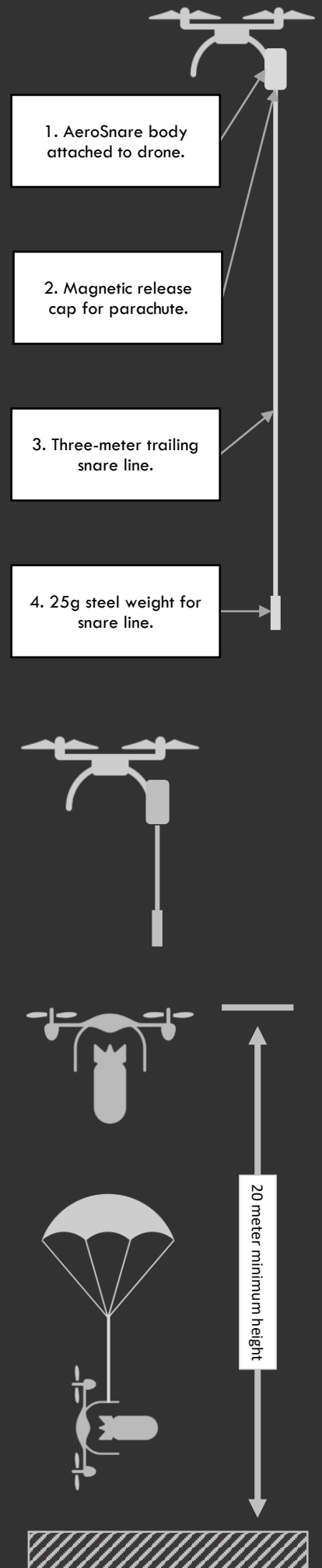
AeroSnare® is an easy to use, low cost device which provides a basic drone capture capability for police and security forces who already operate their own drones. AeroSnare securely attaches to a friendly drone (any drone but it has been specifically designed for the Mavic and DJI M200 series). It uses a weighted drag-line which is slung underneath the friendly drone.

The friendly drone then flies over the hostile drone with a view to entangling the drone's propellers in the drag-line. Once the offending drone is entangled it stalls and falls out the sky, this process it activates the magnetic release function in AeroSnare which in turn quickly (sub 1 second) deploys a parachute so the hostile drone descends slowly with little force (sub 69 joules for drones under 2.6 kg).

AeroSnare is not meant to be a silver bullet, it is designed to provide some capability where none currently exists as part of a range of countermeasures. As a physical capture device AeroSnare has the following unique attributes:

- It requires no firearms license
- It is not export controlled
- It will not anger animal rights activists
- It is re-useable
- It does not require a mid-air collision with another drone
- It preserves evidence for later exploitation, and;
- It is very cost effective

AeroSnare is the perfect device in some circumstances, and anything which introduces an element of doubt in the mind of an illegal drone flyer is a worthy deterrent and addition to a security forces' arsenal.



# 1

Second to Deploy

# 20m

Minimum Height

Less Than

# 69

Joules

Fall Energy

Up To

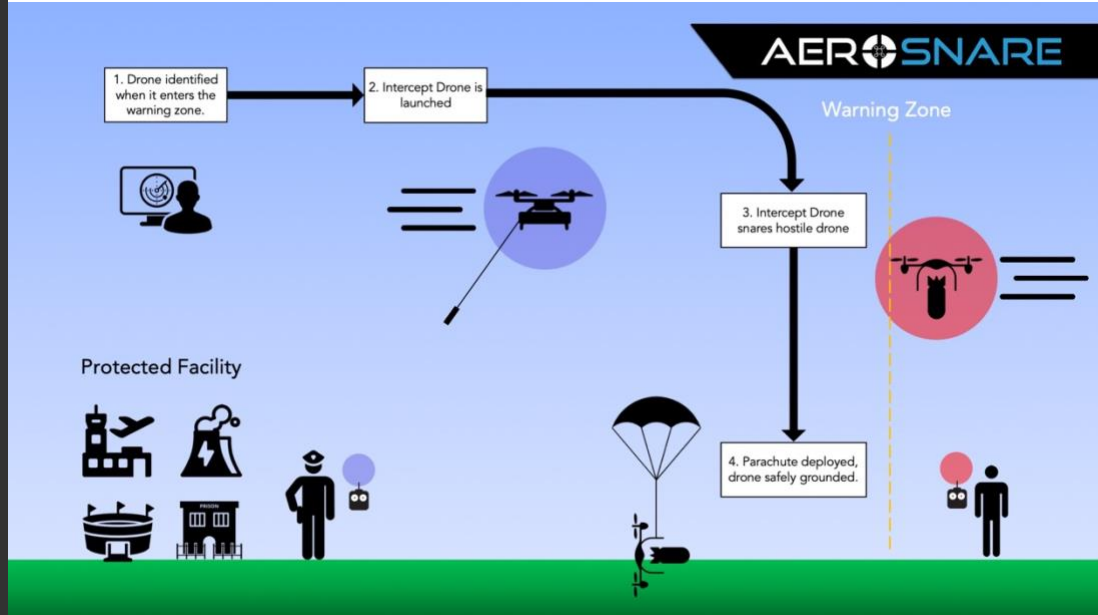
# 3.6

kg

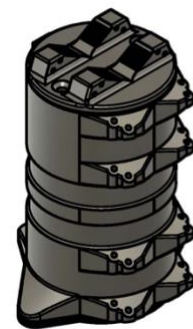
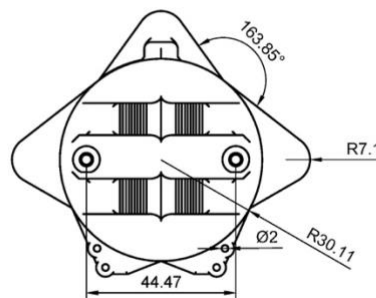
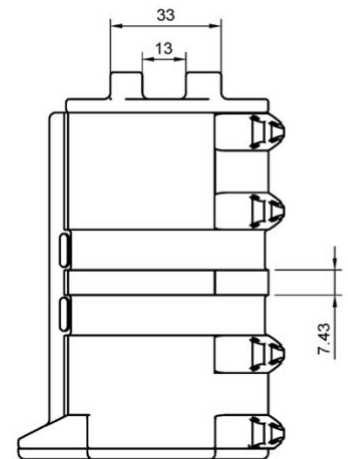
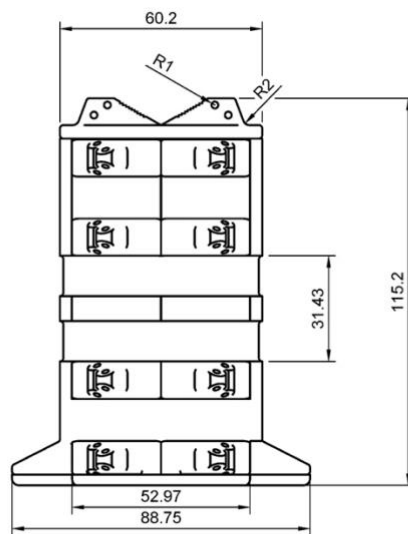
Drone Weight

# 500m

Range & Altitude



## AeroSnare Technical Drawings:



## Standard Set Contents:

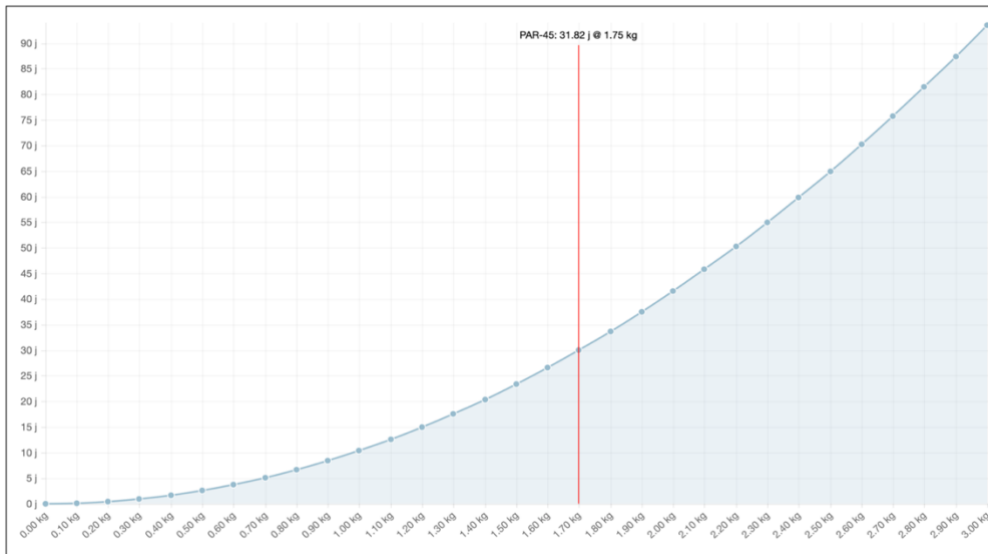
- 1 x AeroSnare Body
- 10 x Hook and Loop Fixing Straps
- 2 x Parachutes
- 2 x Magnetic Caps
- 2 x Snare Lines
- 2 x Snare Weights
- 1 x IP67 Hard Case with Cut Foam
- 1 x User Manual



## Parachute Details:

Example Target Drone	
Target Drone Weight (kg)	1.75
Descent Rate @ Weight (m/s)	6.03
Descent Rate Equivalent Fall Height (m)	1.85
Impact Energy (j)	31.82
Example Target Drone	
Chute Style	Flat Sheet
Canopy Diameter (in)	45
Diameter Spill Hole (in)	0
Number Gores	8
Rating @ 20fps (lbs)	3.9429
Rating @ 15fps (lbs)	2.2179
Weight (oz)	3.1
Weight (g)	88
Packing Volume (in <sup>3</sup> )	17.22
Area Projected (sq ft)	11.0447
Area Canopy (sq ft)	11.0447
Cd Projected	0.75
Cd Area Canopy	0.75
Equivalent Flattened D (in)	45
Performance Ratio 20fps (rating @ 20fps / weight)	20.3507
Performance Ratio 15fps (rating @ 15fps / weight)	11.4472
Minimum Deployment Height (m)	20

### Descent Rate vs Weight:



### Impact Energy (j) vs Weight:

