



# Basic UAV Detecting and Jamming System

ND-BU003

The **ND-BU003** with sufficient detection range is the basic version of our anti-UAV systems and has an obvious advantage in price. Due to its short productive cycle, high-volume and high-quality production are available.

The system mainly consists of Detecting System and Jamming System. The Camera System is optional and can be customized based on various demands. The Detecting System can detect and track long-distance UAVs and lead the Jamming System to interfere with the remote control circuits and navigation signals of the UAVs and force the UAVs landing or returning, for purpose of protecting the key area against UAVs.

## Main Features of Detecting System:

- 3D active phased-array radar
- Low false alarm rate and excellent ability in clutter suppression
- Multiple target capability: able to search at most 128 targets simultaneously
- Full-automatic searching and tracking, and supporting all day (24h) working
- Detection range  $\geq 1.8\text{km}$  (depending on circumstances and UAV type)
- Friendly man-machine interface

## Main Features of Jamming System:

- Directed jamming without violence
- 4 frequency bands of jamming signals (frequency bands and output power can be customized)
- Supporting automatic/manual models switching
- Remote control frequency jamming: coverage of all available civil drones
- Directional high-gain antennas mounted on Pan-Tilt platform to follow the drone (track) and to transmit the jamming signal in the direction of the UAV (drone)
- Frequency jamming can be done automatically upon UAV detection or upon supervisor assistance

## Detecting System

|                 |                                     |            |
|-----------------|-------------------------------------|------------|
| Detection range | Max range (RCS=1m <sup>2</sup> )    | 3.8km      |
|                 | Max range (RCS=0.1m <sup>2</sup> )  | 3km        |
|                 | Max range (RCS=0.01m <sup>2</sup> ) | 1.5km      |
|                 | Max range (DJI Phantom 3)           | 1.8km      |
|                 | Minimum range                       | 0.1km      |
|                 | Target speed                        | 0.5-120m/S |
|                 | Target altitude                     | 30-1000m   |
|                 | Elevation angle                     | ≥45°       |
|                 | Azimuth angle                       | 360°       |

## Jamming System

| Output band       | Frequency band | Channel output power | Total output power |
|-------------------|----------------|----------------------|--------------------|
| 4 Bands           | 840-930MHz     | 10W                  | 40W                |
|                   | 1.45-1.65GHz   | 10W                  |                    |
|                   | 2.40-2.50GHz   | 10W                  |                    |
|                   | 5.70-5.90GHz   | 10W                  |                    |
| Power supply      | 220V, AC power |                      |                    |
| Power consumption | 150W           |                      |                    |
| Physical          | Weight         | 12Kg                 |                    |
| Environment       | Protection     | IP66                 |                    |

## Deliverables

|               |     |
|---------------|-----|
| Radar Module  | x 1 |
| Jammer Module | x 1 |
| User Manual   | x 1 |

