

# RAYSUN MD-1

## Multicopter Defender



### Feature:

- Drone is now commonly used to spy personal privacy or top-secret information day and night, it's also used as an invasive tool by using with weapon for illegal purpose, which is caused a serious problem on the sky, so Multicopter Defender is an ideal device to counter the threat nowadays.
- The shoulder rifle can interfere with radio frequency of the drone within 3 seconds to trick it into believing it's out of range of the owner, then the drone is programmed to either return to the owner, make a controlled descent, or fall out of the sky. The device allows to control ISM or GPS signal individually, for example, the user can only cut down ISM signal while keep GPS working to track the UAV owner's position and destroy it.
- With ability to use with night vision device or thermal scope for night time operation within 1100m.
- The high gain directional antenna can be free from environmental interference.

### Specification:

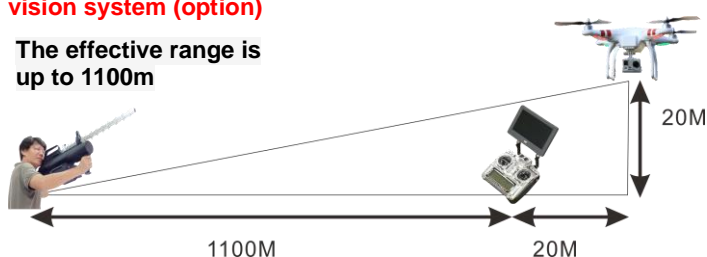
1. Applicable GPS frequency: L1 / L2
2. Applicable ISM band(2.4G): 2400~2500 MHz
3. Applicable ISM band(5.8G): 5700~5900 MHz
4. Output power: Up to 30W and above.
5. Antenna gain: 10~12dBi, EIRP: up to 180dBm
6. Effective range: Above 1100M



24h Long Distance night vision system (option)



24h Thermal scope (option)



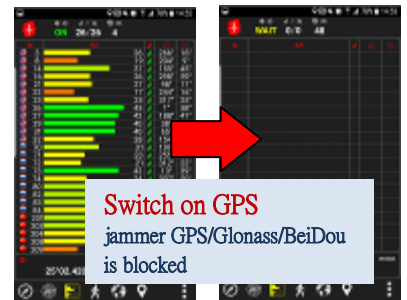
### Operation Instruction

#### Power on GPS

GPS signal is missing, while flight condition can be tracked as well, which force the drone should be either controlled manually or descend slowly; auto-flight mode is not allowed.

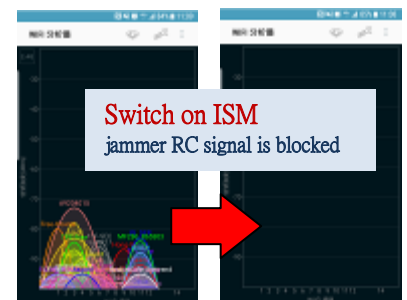


Video: Block GPS signal



#### Power on ISM.

The device is beyond owner's control, while GPS function will guide the drone go back to the owner, so user can catch both targets easily.



#### Power on GPS and ISM

The drone completely loses its control, and can be only flying without any intention.

The effective range is up to 1100m





**With battery capacity display and weak alarm function**



**UAV airdrop bomb**



**UAV smuggling of firearms / drugs**

**空拍機闖清泉崗 害客機延誤2小時**

2016年08月18日



【綜合報導】又是空拍機惹禍，軍民合用的台中航空站昨日一架輕型空拍機闖進機場臨時禁飛區，導致航空自由港班機，被迫轉降高雄小港，導致延誤超過兩小時。空軍表示發生，空軍會研擬辦法，「讓它不能飛」。

被拍轉飛高雄加油

**UAV interference flight safety**



**UAV air photography infringement of**

**Specification**

Length	116 cm x 33 cm x 190 cm
Weight	Less than 6 Kg (Include battery、full set)
Voltage	DC 24V
Battery Capacity	6400 m/Ah
Operational temperature	-10degree~55degree
Relative humidity	95%
Protection Class	IP33
Operation time	60mins
Battery Charge time	約 4hours
Frequency range	1560~1600GHz 2395~2490GHz 5710~5920GHz
Beam width (range)	±15degree
Output Power	20W(GPS、2.4G) 3W(5.8G)
Antenna output power	12~15 dBi
Effective range	More than 1100 meter

**Standard package**

1. UAV Jammer main unit
2. Carrying case
3. external power cord
4. charger
5. tripod holder
6. hand-held bracket



**Optional Items**



**1.Night vision device (With combination set)**



**2.Thermal imager (With combination set)**