

RAYSUN MD-1S

Multicopter Defender

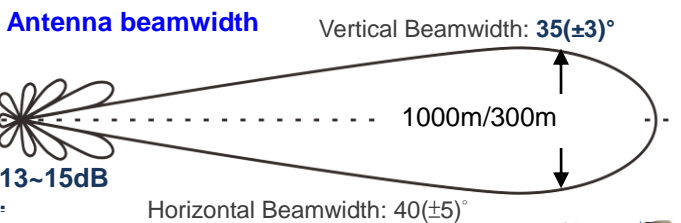
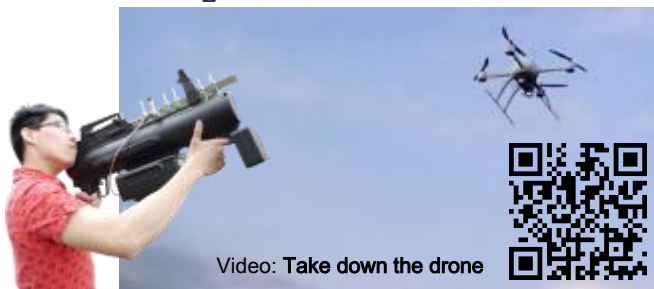


Feature:

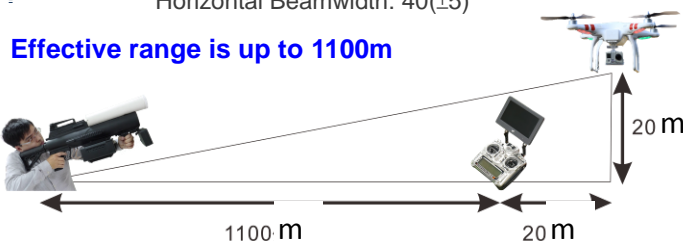
- Drone is now commonly used to spy personal privacy or top-secret information day and night, it's also used as an invasive tool by using with weapon for illegal purpose, which has caused a serious problem on the sky, so Multicopter Defender is an ideal device to counter the threat nowadays.
- The shoulder rifle can block ISM and GPS signal to take down the drone immediately within 1,100m, when the drone is out of the owner's range, it will either go home, make a controlled descent, or fall out of the sky, when the drone finds the way home, the user can catch the owner accordingly..
- Allow to disrupt the wireless video transmission which disables the on-site monitoring and guidance, the owner can't wirelessly control the drone any more.
- 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, ERIP: up to 180dBm
6. Effective range: Above 1100M



Effective range is up to 1100m

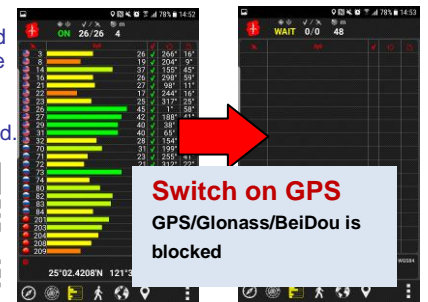


Simulation:

Switch on GPS

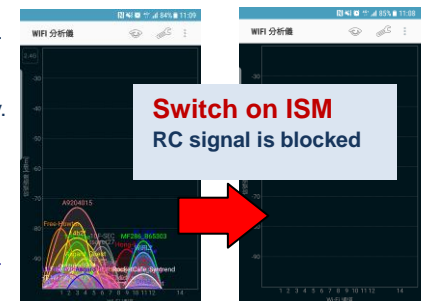
GPS signal is missing, while flight condition can be tracked as well, which force the drone should be either controlled manually or descend slowly; auto-flight mode is not allowed.

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 lose its control, and can be only flying without any intention till drop to ground when running out of battery..





Battery power indicator with low power alert.



The built-in 1913 rail allows to attach various types of aimers or install a strap for shoulder-carry.



Roller carry case: easy to carry and store.

Specification

Roller carry case size	80 cm x 40.9 cm x 34.1 cm
Main unit size	66 cm x 18.3 cm x 28 cm
Main unit size (including gunstock)	86 cm x 18.3 cm x 28 cm
Weight	<6kg(including power system)
Operation voltage	DC 24V
Battery	6400 m/Ah
Operation temperature	-10°~55°
Operation humidity	95%
Protection standard	IP33
Running time	60 minutes
Charging time	Approx 4hours
Frequency	1567~1583GHz 2400~2500GHz 5700~5900GHz
Output power	20W(GPS、2.4G) 3W(5.8G)
Antenna output power	12~15 dBi
Horizontal Beamwidth	40(±5)degree
Vertical Beamwidth	35(±3)degree
Effective range	Above 1100m

Standard package

1. Main unit
2. Roller carry case
3. Power cable
4. Charger
5. Handle-shape support



Option



NVS-14 Night vision monocular (option)

TS-75 Thermal scope (option)