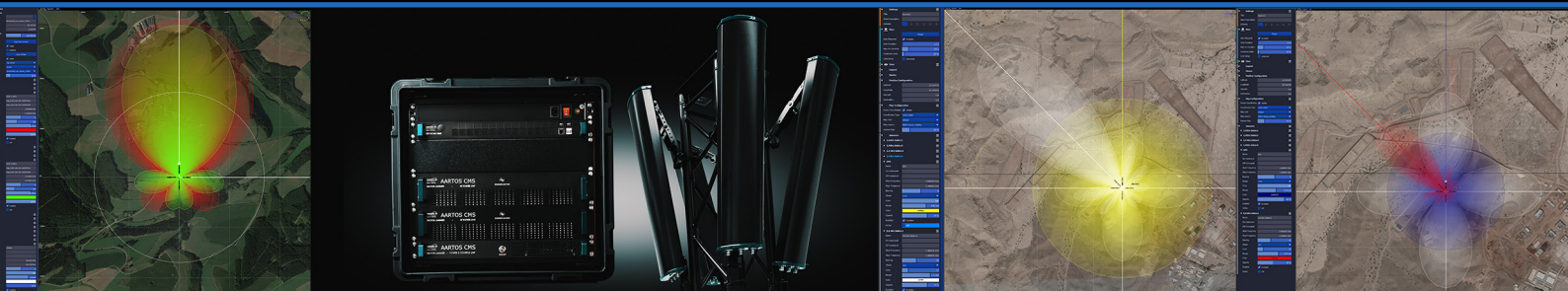


# SECTOR UAV JAMMER

Jamming system with 1300 W output power and up to 8 km range



- ✓ Up to 1300 W output power
- ✓ Largest RF-range amongst all commercial models
- ✓ Range of up to 8 km
- ✓ 180° or 360° models available
- ✓ Ultra-Sharp Signal Purity
- ✓ Directional/Omnidirectional antennas included



# Detecting and Eliminating

AARTOS DDS is, at its foundation, a Drone Detection System. A system built to identify and monitor drones that present potential threats while operating at military grade capabilities. In addition to this already one-of-a-kind functionality, the system can also be outfitted to support countermeasure capabilities with the addition of Aaronia's Sector UAV Jammer.

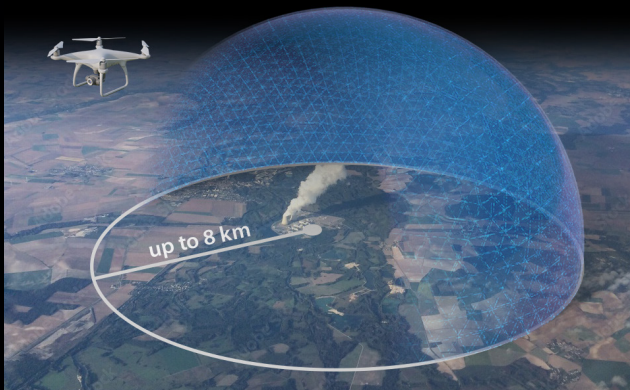
By extending the AARTOS DDS to include this jammer, it effectively prevents any drone in the area from receiving RF signals. Thus activating its fail-safe mode and forcing it to either hover and land or return to its point of origin.



## A Jammer by Definition

A jammer is a device, by definition, that sends out signals in order to interfere with and eventually block a receiver from getting transmitted signals from its source. In most drones and other UAVs, the aircraft is controlled by an operator with a remote controller. The controller transmits the input from the user to the aircraft, giving the user control.

However, if this signal is interrupted, the drone will enter an emergency mode that will either begin a landing maneuver or return to its point of origin. Interrupting this signal and activating this mode is exactly what Aaronia's jammers are built to accomplish.



## Safe and Focused

As with all of our jammers, the interference created is extremely selective, in order to make sure other RF channels are not impaired. In addition, the jammer is directional, and will only jam signals in the direction of the incoming UAV.

This prevents any complications in accidentally creating unwanted internal or external interference. Built in pre-cautions these are vital when deploying a jammer, especially in situations where interference could cause disastrous consequences (i.e. airports, military, law enforcement).



# Jammer Specifications

- ✓ Jamming range of up to 8 km
- ✓ Ultra-Sharp Signal Purity
- ✓ Up to 1300 W output power
- ✓ Covers the largest frequency range amongst all commercial models
- ✓ Corner Jammer (180°) or Omni-Jammer (360°) models to choose from
- ✓ Directional/Omnidirectional antennas included
- ✓ Operating temperature: -20° C to +60° C
- ✓ Made in Germany

## Technical Informations

- ✓ 7 - 8 bands with 3 - 4 antennas (2 directional, 1 - 2 omnidirectional) or 14 - 16 bands in 6 - 8 antennas (4 directional, 2 - 4 omnidirectional)
- ✓ Directional antenna specifications (one antenna covers 90°):
  - 2,40 GHz - 2,50 GHz / 25 W (high power version: 100 W)
  - 1,57 GHz - 1,62 GHz (GPS (optional) L1 + GLONASS L1) / 40W (high power version: 100 W)
  - 5,70 GHz - 5,90 GHz / 20 W (high power version: 25 W)

Impedance:	50 Ohm
VSWR:	≤ 1,5
Dimensions(L/W/D):	745 x 180 x 80 mm
Weight:	4 kg

- ✓ Omnidirectional antenna specifications (360° per antenna):
  - 433 MHz (remote control) / 20 W (high power version: 100 W)
  - High power version only: 860 MHz - 930 MHz (remote control) / 100 W
- ✓ Color: White (other RAL colors also available)

# AARTOS CMS Jammer Versions

## Mobile Handheld Jammer



Directional antenna, covers a total of **4 bands**, **40 W** (up to 2 km range)

## Fixed Bands Jammer (180°/360°)



**2/4 sectors with 2/4 antennas**, covers up to **15 bands**, **180 W/360W** (up to 3 km range) or **650 W/1300W** (up to 8 km range)

## Programmable Sector Jammer (360°)



**8 sectors with 8 antennas**, covers **all bands up to 6 GHz**, **240 W** (up to 4 km range) or **800 W** (up to 10 km range)

### Jammer disclaimer

The AARTOS CMS (Countermeasure solutions) can only be sold to entities with proper government approval for the deployment of jammers. Contact us for more information at [mail@aaronia.de](mailto:mail@aaronia.de).

# AARTOS Drone Detection Versions

## AARTOS DDS X3 (Laptop)



Portable solution, omnidirectional, typ. range: 500 m - 2 km

Designed to be used as a concealed and portable drone and jammer detection device, the setup is lightweight and offers a battery life of 1.5 hours. Operation is also seamless as the system can be ready to use within 30 seconds.

## AARTOS DDS X7 (Advanced)



Typ. range: ~ 2 - 5 km

High precision drone detection combined with an extremely large detection range. The X7 consists of a 16 sector IsoLOG 3D DF antenna array and a spectrum analyzer (V6 Command Center, V6 MIL or V6 Rugged Rack). Making it perfect for both single-system and multi-grid system setups.

## AARTOS DDS X5 (Base)



Typ. range: ~ 1 - 2 km

The base system consists of one analyzer (V6 MIL) and one IsoLOG 3D DF antenna array with 8 sectors. It is a highly cost-effective solution, which can be used to cover medium sized areas.

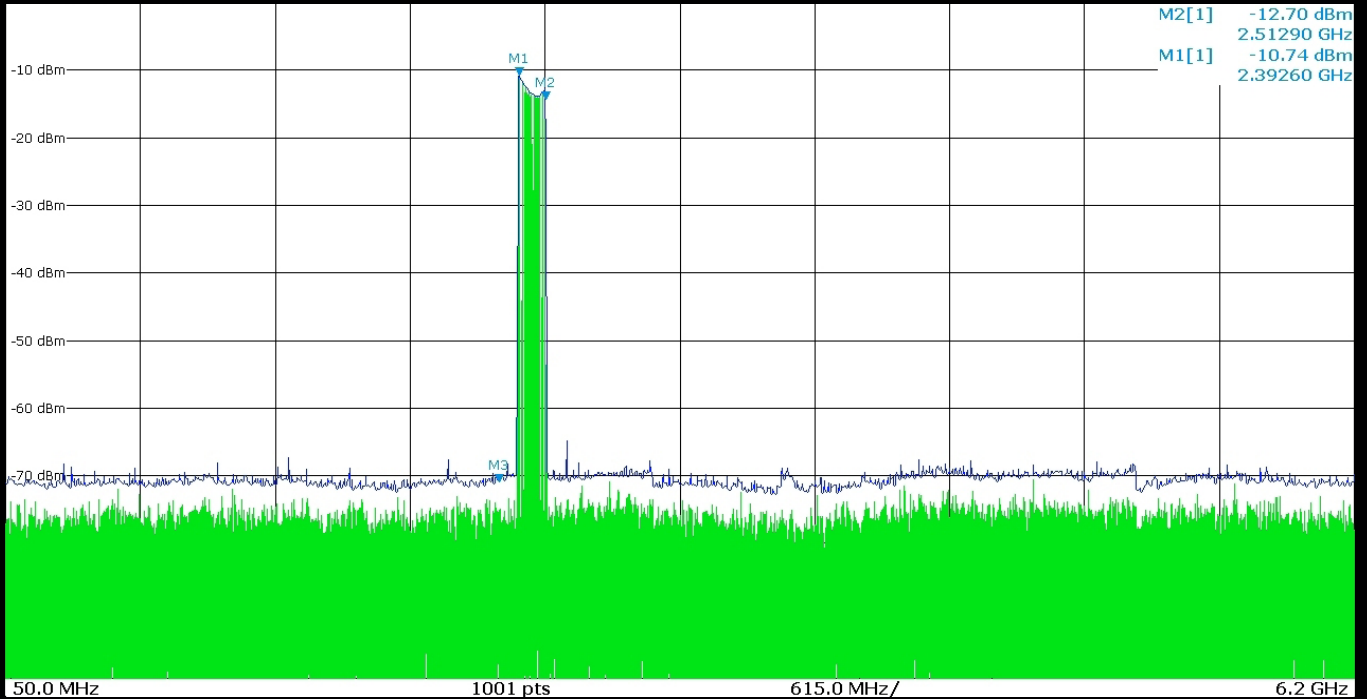
## AARTOS DDS X9 (PRO)



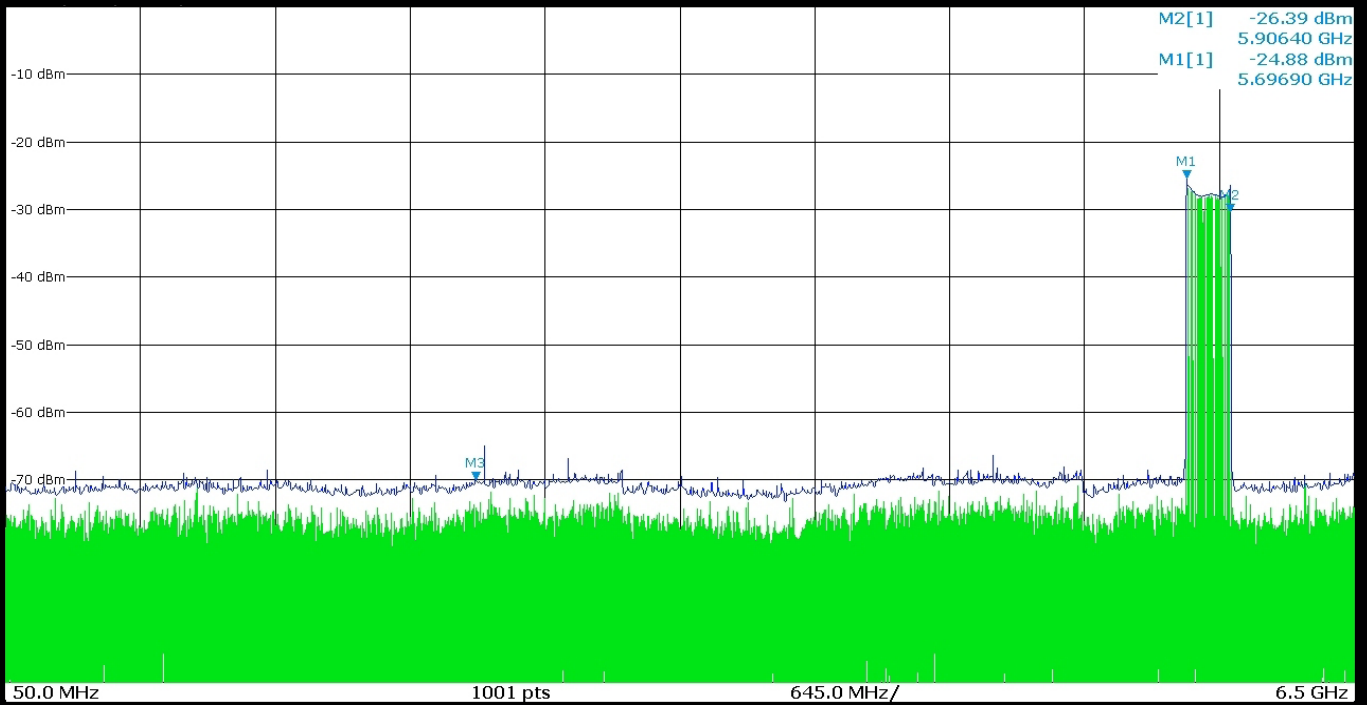
Typ. range: ~ 5 - 14 km

The X9 combines high precision and ultra-wide-band monitoring for instant, real-time detection over multiple bands (instead of one instant or multiple via hopping). The system consists of an IsoLOG 3D DF antenna array with 16 sectors and the UWB unit, perfect for ultra-high-range drone detection grids.

# Ultra-Sharp Signal Purity



Frequency Output 2,4 GHz



Frequency Output 5,8 GHz

- HUNDREDS OF INSTALLATIONS WORLDWIDE -



## CUSTOMER GROUPS

- Military & police forces (ground & air)
- Convoys
- Airports
- Power plants
- VIP security services
- Border patrols
- Government buildings  
(e.g. embassies, correctional facilities)
- Events  
(concerts, political events, sports etc.)
- Seaports / marinas
- Private properties

AARTOS DDS  
**REFERENCES**