Aaronia AARTOS Counter-Measure Solutions

Portable UAV-Jammer

Backpack Jamming System with 120W Output Power and up to 2.5km Range

Up to 120W Output Power
High Range of up to 2.5km
Covers 5 Frequency Bands
Highlights

✔ Jamming range up to 2,5 km
✔ 5 Frequency Bands
✔ Total output power of 120 W
✔ Covers most of all commercially available drone models
✔ Battery run-time up to 1,5 hours
✔ Incl. directional and omnidirectional antenna
✔ Output Power for 433 MHz, GPS and 2,4 GHz steplessly adjustable up to 50 dB
✔ Made in Germany

Technical Information

✔ Covered Frequency Bands:
  4 Bands in one directional antenna
    2.4 GHz 20 W with directional antenna (Horizontal Polarization)
    2.4 GHz 20 W with directional antenna (Vertical Polarization)
    5.8 GHz 20 W with directional antenna (Horizontal Polarization)
    GPS L1 35 W with directional antenna
  1 Band in one omni-directional antenna
    433 Mhz 25 W with omni-directional antenna

✔ TOTAL OUTPUT: 120 W

✔ Adjustable Output Power for each frequency band
✔ 100 % Safe VSWR over protection (Isolator) for each module
✔ Battery +24 V / 20AH LiFePO4 can support 1-1,5 hours of continuous operation
✔ Dimensions: 390 x 340 x 130 mm (H × W × D)
✔ Weight: 14 kg (main unit)
✔ Operating temperature: -20° C to +60° C
✔ Included in delivery: 1x Portable Jammer with integrated battery, 1x AC 110 or 220V DC power supply, 1x omni-directional Antenna for 433 Mhz, 1x 4 bands directional Antenna
### 4-in-1 Directional Antenna

<table>
<thead>
<tr>
<th>Name</th>
<th>CH1</th>
<th>CH2</th>
<th>CH4</th>
<th>CH3</th>
</tr>
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<tbody>
<tr>
<td>Frequency Range</td>
<td>1575-1620MHz</td>
<td>2400-2500MHz</td>
<td>2400-2500MHz</td>
<td>5700-5920MHz</td>
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<tr>
<td>Gain</td>
<td>8dBi</td>
<td>12dBi</td>
<td>12dBi</td>
<td>15dBi</td>
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<td>VSWR</td>
<td>≤1.5</td>
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<tr>
<td>Polarization</td>
<td>Vertical</td>
<td>Vertical</td>
<td>Horizontal</td>
<td>Vertical</td>
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<tr>
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<td>60°</td>
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<tr>
<td>Vertical beamwidth</td>
<td>30°</td>
<td>15°</td>
<td>15°</td>
<td>7°</td>
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<tr>
<td>Front to back ratio</td>
<td>≥24dB</td>
<td>≥25dB</td>
<td>≥25dB</td>
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<td>Input Impedance</td>
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<tr>
<td>Max Input Power</td>
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<tr>
<td>Connector</td>
<td>N-M</td>
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<td></td>
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<tr>
<td>Lightning protection</td>
<td>Direct Ground</td>
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<td></td>
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<tr>
<td>Dimensions</td>
<td>255x255x45mm</td>
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</table>
Ultra Sharp Signal Purity

Frequency Output 2.4 GHz

Frequency Output 5.8 GHz
AARTOS CMS Jammer Versions

Manpack-Jammer
 Omni- or Directional Antenna, Covers 5 bands, 120W (range up to 2.5km) output

Corner-Jammer (180°)
 2 sectors with 2 antennas, Covers 7-8 bands, 180W (range up to 3km) or 650W (up to 6km) output

Omni-Jammer (360°)
 4 sectors with 4 antennas, Covers 14-16 bands, 360W (range up to 3km) or 1300W (up to 8km) output

Jammer Disclaimer
The AARTOS CMS (Counter-Measure Solutions) can only be sold to entities, who have proper government permits for the deployment of jammers. Contact us for more information at mail@aaronia.de

AARTOS Drone Detection Versions

X3 (Mobile)
Designed to be used as an easily portable drone and jammer detection device. This setup is lightweight and comfortable for the carrier. It offers a long battery life.

X7 (Advanced)
The highest precision in drone detection, combined with a very high detection range. Perfect for both single-system and multi-grid-system setups. It consists of a 16 sector IsoLOG 3D antenna-array and a spectrum analyzer (Command Center, XFR Pro or ODB).

X5 (Base)
The system consists of an analyzer (Command Center, XFR Pro or ODB) and an IsoLOG 3D antenna-array with 8 sectors. It can be used as a very cost-effective method to cover large areas with drone detection systems.

X9 (Ultra Wideband)
The X9 combines the highest precision and range and adds ultra wideband monitoring for instant, real-time detection on multiple bands (instead of one instant or multiple via hopping). Consists of an IsoLOG 3D antenna-array with 16 sectors and the UWB unit.
References

Cross-Section of Aaronia Clients

Government, Military, Aeronautic, Astronautic

• NATO, Belgium
• Department of Defense, USA
• Department of Defense, Australia
• Airbus, Germany
• Boeing, USA
• Bundeswehr, Germany
• NASA, USA
• Lockheed Martin, USA
• Lufthansa, Germany
• DLR, Germany
• Eurocontrol, Belgium
• EADS, Germany
• DEA, USA
• FBI, USA
• BKA, Germany
• Federal Police, Germany
• Ministry of Defense, Netherlands

Industry

• APPLE, USA
• IBM, Switzerland
• Intel, Germany
• Shell Oil Company, USA
• ATI, USA
• Microsoft, USA
• Motorola, Brazil
• Audi, Germany
• BMW, Germany
• Daimler, Germany
• Volkswagen, Germany
• BASF, Germany
• Siemens AG, Germany
• Rohde & Schwarz, Germany
• Infineon, Austria
• Philips, Germany
• ThyssenKrupp, Germany
• EnBW, Germany
• CNN, USA
• Duracell, USA
• German Telekom, Germany
• Bank of Canada, Canada
• NBC News, USA
• Sony, Germany
• Anritsu, Germany
• Hewlett Packard, Germany
• Robert Bosch, Germany
• Mercedes Benz, Austria
• Osram, Germany
• DEKRA, Germany
• AMD, Germany
• Keysight, China
• Infineon Technologies, Germany
• Philips Semiconductors, Germany
• Hyundai Europe, Germany
• VIAVI, Korea
• Wilkinson Sword, Germany
• IBM Deutschland, Germany
• Nokia-Siemens Networks, Germany

Research/Development, Science and Universities

• MIT - Physics Department, USA
• California State University, USA
• Indonesien Institute of Sience, Indonesia
• Los Alamos National Laboratory, USA
• University of Bahrain, Bahrain
• University of Florida, USA
• University of Victoria, Canada
• University of Newcastle, United Kingdom
• University of Durham, United Kingdom
• University Strasbourg, France
• University of Sydney, Australia
• University of Athen, Greece
• University of Munich, Germany
• Technical University of Hamburg, Germany
• Max-Planck Inst. for Radio Astronomy, Germany
• Max-Planck-Inst. for Nuclear Physics, Germany
• Research Centre Karlsruhe, Germany