




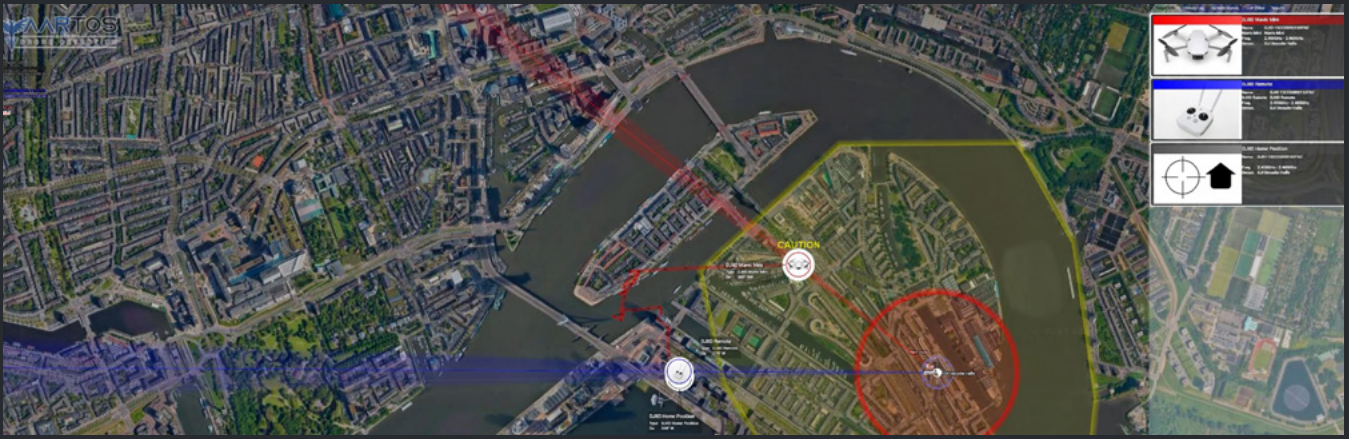
DRONE PROTOCOL DECODING AND TRACKING



 DETECT

 LOCATE

 COUNTER



DETECT

5 km detection and tracking range of commercial drones

- ▶ Real-time decoding of DJI OcuSync 1-4 and DJI WiFi
- ▶ Real-time 2.4 GHz and 5.8 GHz frequency coverage
- ▶ Ready to use in less than 30 seconds
- ▶ Powerful software
- ▶ Made in Germany

LOCATE

Shows exact locations of drone, operator and homepoint

- ▶ Shows further information like type of drone, serial number, height, speed, etc.
- ▶ Supports writing and reading custom mission data sets
- ▶ Portable and 24/7 stationary variants
- ▶ Remote control capabilities

COUNTER

Optional jamming systems with up to 10 km jamming range

- ▶ Seamless frequency range, selectively from 400 MHz to 6 GHz
- ▶ IP65 weather protection, operating temperature -20°C to +60°C
- ▶ Portable or stationary
- ▶ 4 or 8 sector versions, customizable on demand

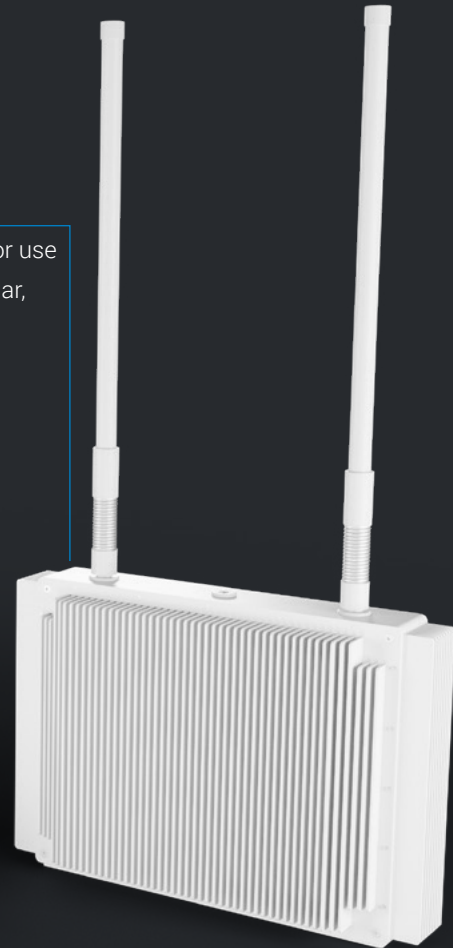
X2 Portable

- ▶ Cost-effective
- ▶ Highly portable
- ▶ Optional powerbank



X2 Stationary

- ▶ 24/7 remote outdoor use
- ▶ Extendable with radar, jammer, cameras





▶ **Secure Your Airspace from Unauthorized Drone Threats**

Protect critical infrastructure and sensitive locations with our comprehensive drone defense solution, engineered to cover the full frequency range of commercial off-the-shelf drones. Our system reliably detects, locates, and tracks unauthorized drones with a range of up to 5 km, ensuring secure airspace around your assets without disrupting regular operations. Designed for around-the-clock defense, our stationary model operates continuously, with an option to form a mesh network for extended coverage over vast areas, providing unparalleled protection against drone intrusions.

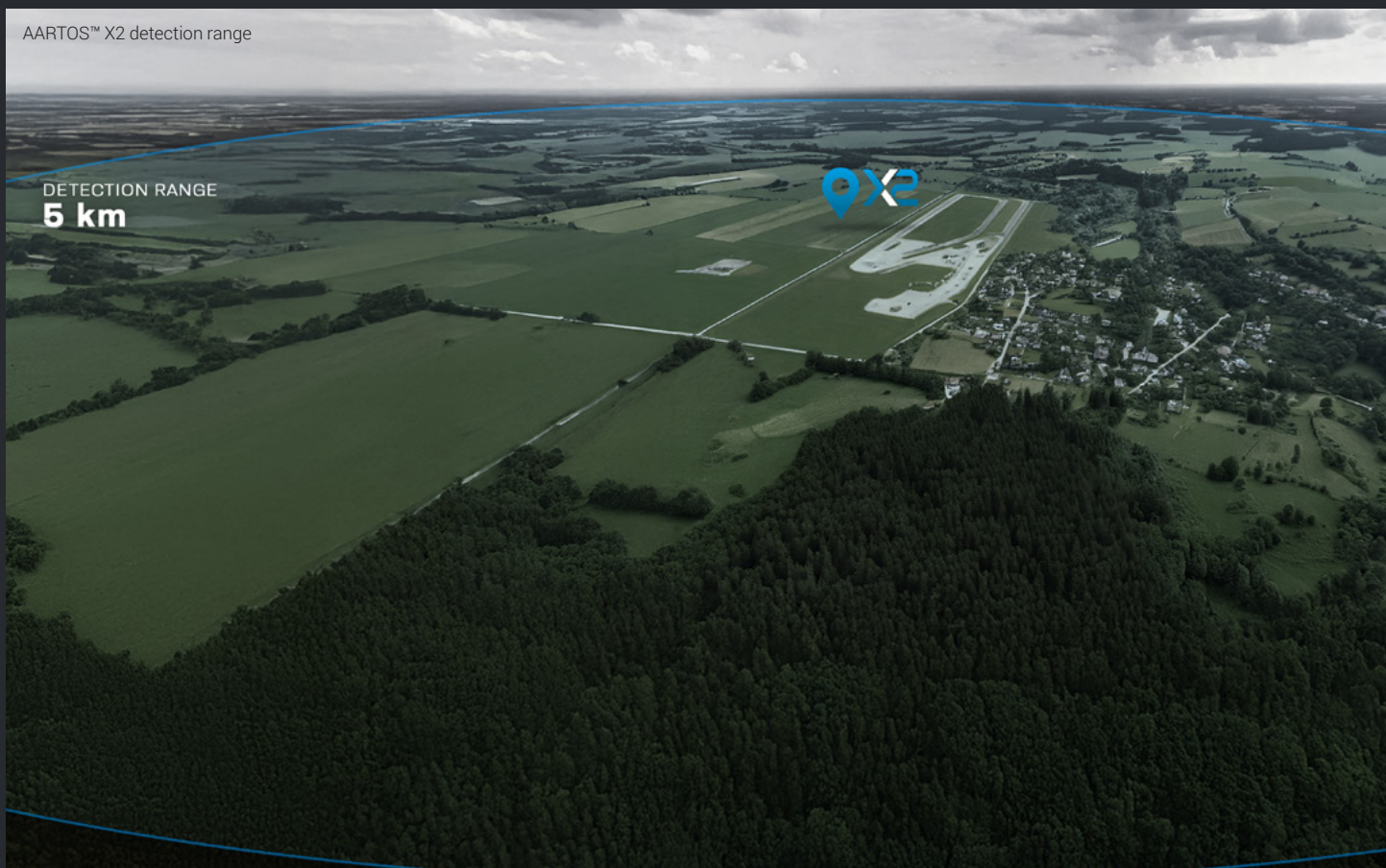
▶ **Portable and Powerful Mobile Drone Detection**

For versatile, field-ready applications, our portable drone detection system is tailored for law enforcement, infrastructure security, and mobile operations. Offering on-demand detection and optional drone neutralization, this compact system adapts seamlessly to various scenarios—whether for crowd control, special missions, or perimeter security. Quick to deploy and simple to operate, it ensures immediate protection in any location. Built tough and weather-resistant, this mobile solution is perfect for rapid response in dynamic and demanding environments.

Stationary AARTOS™ X2



AARTOS™ X2 detection range





► **Fixed Bands Sector Jammer**

FJ SERIES

By extending the **AARTOS™** X7 or X9 to include our “FJ series” stationary jammer with a jamming range of typically 3 km, it creates a system that can reliably and quickly locate and neutralize threats.

With its directional and omnidirectional antennas and a maximum output power of 390W the jammer is capable of countering drones within the most common frequency bands (GPS e.g. upper and lower L-band, 2.4 GHz, 5.2 GHz, 5.8 GHz, etc.).

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.



► **Programmable Smart Sector Jammer**

SJ SERIES

Our **AARTOS™** “SJ series” programmable jammer delivers a gapless coverage from 400 MHz to 6 GHz with an effective jamming range of 10 km.

With its directional antennas it is able to cover all commercial and military drones up to 6 GHz and can counter them with a freely adjustable output power of 30W per sector (upgradable to 100W).

All **AARTOS™** Jammer solutions can only be sold to entities with proper government approval for the deployment of jammers. For more information, contact us at mail@aaronia.de.

SJ²⁴⁰ **SJ**⁸⁰⁰

Seamless frequency jamming from 400 MHz to 6 GHz with a 360° coverage and the highest range in our lineup.

FJ³⁹⁰

The stationary FJ series cover 360° with a range of up to 3 km and up to 7 frequency bands.

MJ⁴⁰

This handheld UAV jammer is a potent and portable drone jamming system with 2h battery life and customizable frequency bands.

Typ. Range ▶	4 km / 10 km	3 km	2 km
Antenna(s) ▶	8 directional	4 directional Up to 4 omnidirectional	1 directional
Sectors ▶	8	4	1
Bands ▶	All bands up to 6 GHz	Up to 7	4
Output Power ▶	240W / 800W	390W	40W



▶ EO/MWIR PTZ Cameras

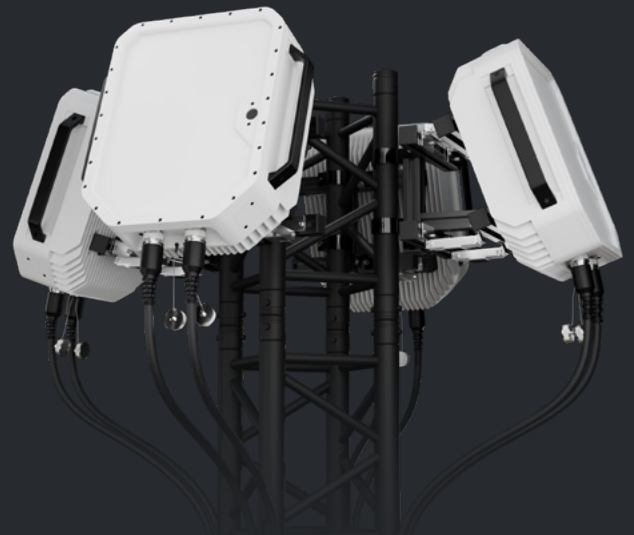
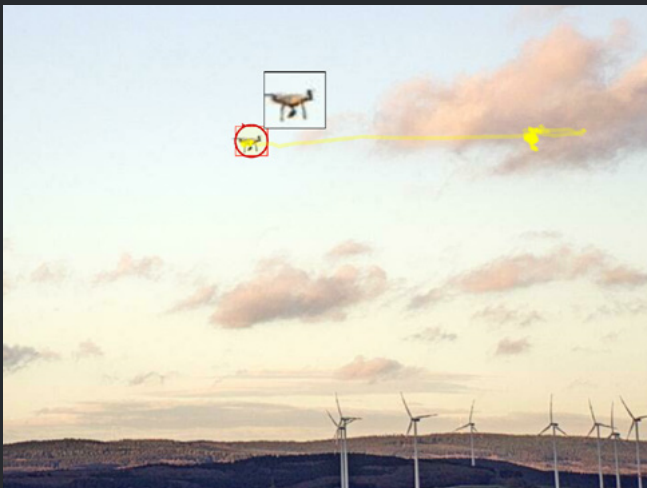
XCAM SERIES

Among the latest additions is the Visual Detection System, a fully integrated optical and thermal drone detection solution that is perfectly matched to the detection mechanisms of AARTOS™.

This option enables the user to spot detected drones, even from afar, and identify potentially dangerous payloads attached to the drone, such as explosives.

Automated AI tracking will continue even if a drone enters autonomous flying mode while it is being tracked by the Visual Detection System.

- Thermal and optical camera for 24/7 protection
- Sophisticated tracking and analysis AI
- Max. camera resolution of 1920 × 1080 px (full HD)
- Max. thermal module resolution of 1280 × 720 px
- Optical: 13 mm to 261.5 mm focal length
- Thermal: 72 mm to 900 mm focal length
- IP67-certified protection



▶ 4D UAV Radar

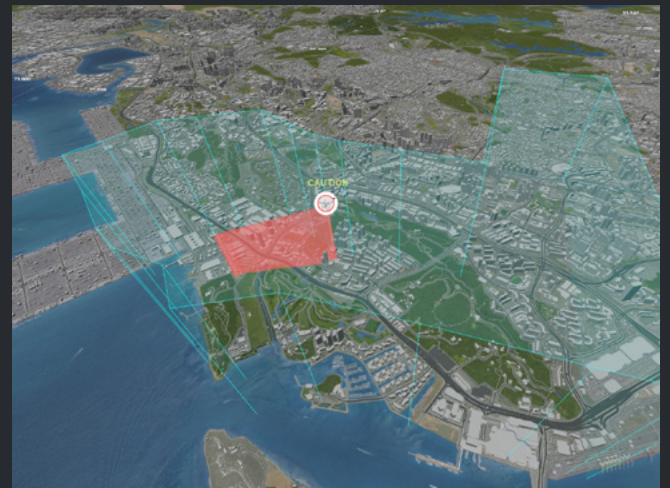
RD SERIES

Using an (optional), sophisticated radar system, AARTOS™ can automatically determine and display the exact position, flight direction, altitude, speed and classification of an inbound drone. The trajectory of the flight can also be tracked in real-time as a 3D model.

The system distinguishes between birds, fixed-wing drones and propeller drones. When a UAV enters the designated no-fly zone, a multi-alarm can be configured.

▶ Complete customization

The required equipment for AARTOS™ can be configured to match detailed customer requirements. End customers will receive hardware that is tailored to their specific needs, with all components chosen individually. This guarantees optimal drone detection performance in any given terrain or area.





► **Safe detection**

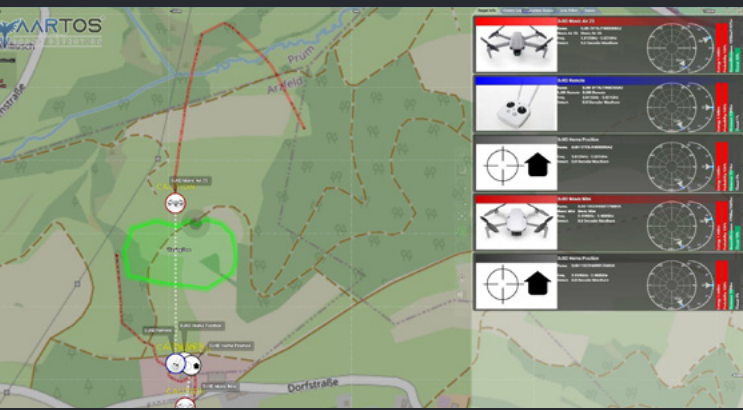
Our system does not mistake UAVs for other flying objects such as birds, balloons or kites. Saving time and resources for real threats.

► **Early detection**

The **AARTOS™** Drone Detection System triggers an alarm as soon as a remote control sends its first signal, even before the actual drone is airborne. Allowing countermeasures to be launched at an early stage.

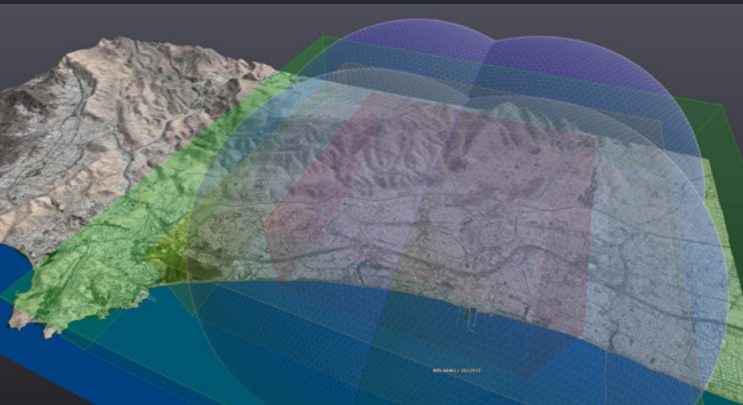
► **Tracking the drone operator**

Since the **AARTOS™** detects both the drone (from downlink signals) and its corresponding remote control, the movement of both can be tracked in real-time. If two or more systems are deployed, triangulation can then determine the exact position.



A top-down 2D perspective is the most commonly used visualization technique in drone detection. The program is easy to understand and navigate due to its similarity to common satellite-image-based map solutions.

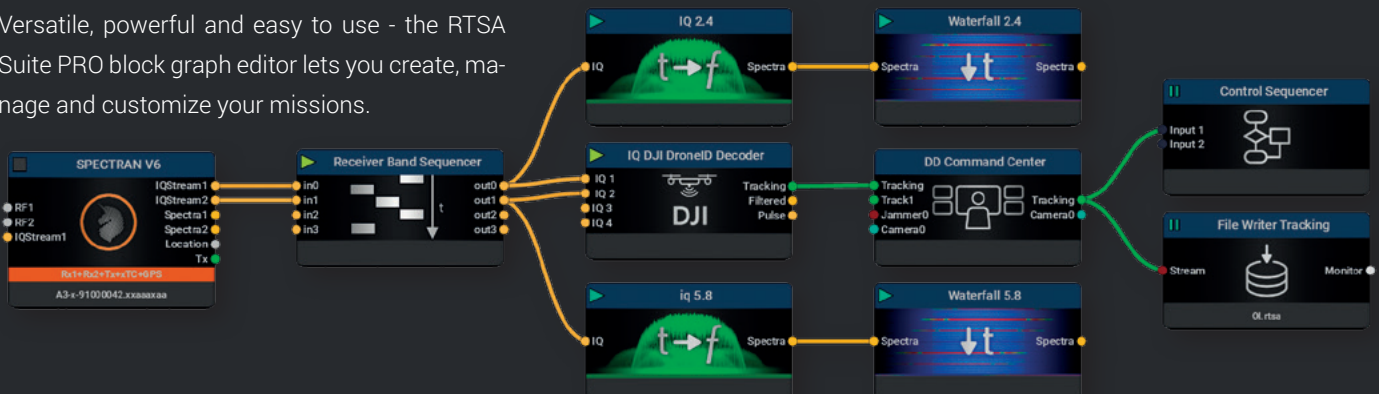
The 3D view expands our capabilities by adding the drone's altitude information (this requires multiple drone detection systems), and making it easier to evaluate distances between different objects on the map.



The topographic mode displays the surrounding terrain's surface, depicting hills, mountains, peaks and valleys.

Combined with our 3D, man-made structures system building system, the topographic view creates the most accurate representation of the surrounding area: **AARTOS™** is also able to integrate 3D models of complex areas (e.g. cities, airports, etc.) into its 3D view, improving usability for end users.

Versatile, powerful and easy to use - the RTSA Suite PRO block graph editor lets you create, manage and customize your missions.





AARTOS™ X2 SPECIFICATIONS

Typical range ▶	Max. 5 km
Usage ▶	Mobile & stationary
Frequency coverage ▶	2.4 GHz + 5.8 GHz
Detection type ▶	Drone protocol decoding
Decoding ▶	DJI OcuSync 1-4, DJI WiFi
Tracking type ▶	GPS
Tracking accuracy ▶	Typically 2 - 3 meters
Scalable ▶	Yes (stationary X2)
Optional radar and camera ▶	Yes (stationary X2)
Optional jamming systems ▶	Yes (stationary X2)

ANALYZER SPECIFICATIONS

Frequency range ▶	10 MHz to 6 GHz
Real-time bandwidth ▶	120 MHz
POI ▶	97 ns (FFT), 10 ns (direct I/Q)
DANL (internal preamp on) ▶	Typ. -170dBm/Hz
RF connectors ▶	2x Rx N
Frequency ref. accuracy ▶	0,5 ppm (5 ppb via OCXO)
Resolution bandwidth ▶	62 mHz to 57 MHz
Attenuator range ▶	50 dB / 70 dB (0,5 dB steps)
ADC ▶	2 x 2GSPS 16 Bit
DAC ▶	1 x 2GSPS 14-Bit

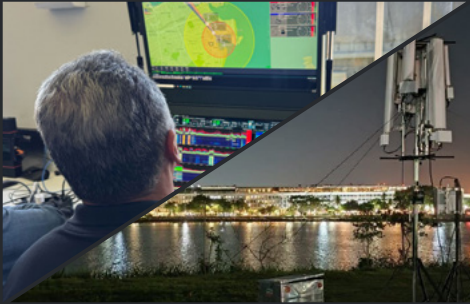


ANTENNA SPECIFICATIONS

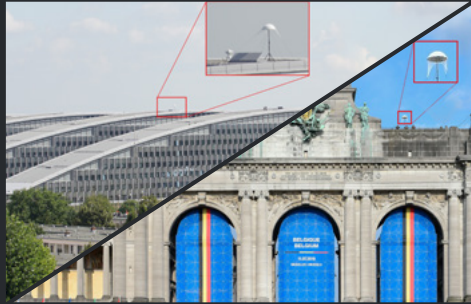
Antenna variant ▶	Omni Antennas
Frequency ▶	2.4-2.5 GHz 5.1-5.9 GHz
Quantity included ▶	2
Gain ▶	6 ± 0.5 dBi 8 ± 0.5 dBi
VSWR (Max.) ▶	1.5:1
Horizontal beam width ▶	360°
Polarisation ▶	Linear, vertical
Impedance ▶	50 Ohm
Radiation pattern ▶	Omnidirectional
Connector ▶	N(f)
Temperature range ▶	-40 to +80° C
Humidity ▶	95% non-condensing
IP rating ▶	IP65
Weight approx. ▶	0.5 kg
Dimensions ▶	Ø 25x660 mm

AARTOS™ X2 VERSIONS & ACCESSORIES

AARTOS™ X2 Portable ▶	#801/009
AARTOS™ X2 Stationary ▶	#801/010
Medium-Range EO/MWIR Camera ▶	#803/001
Ultra Long-Range EO/MWIR Camera ▶	#803/003
4D UAV Radar 360° Bundle ▶	#804/005
MJ40 Handheld Jammer ▶	#802/001
AARTOS™ X2 Portable Powerbank ▶	#805/031
AARTOS™ X2 Stationary Rapid Deployment Kit ▶	#805/045
Training Course ▶	#807/002
Local Training Course ▶	#807/005



G20 Summit Brazil 2024 & Bali 2022



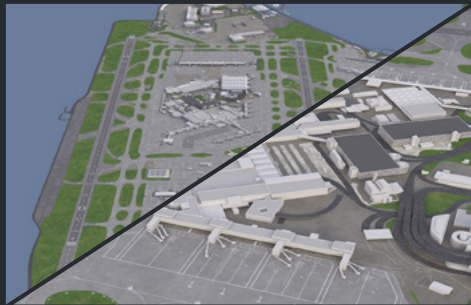
NATO Summit, Brussels



North Korea / USA Summit, Singapore



Airpower 2024, Austria



Heathrow International Airport, UK



Formula 1 GP Red Bull Ring, Austria



REPRESENTANTE OFICIAL EN COLOMBIA

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