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utm\_medium=referral)

## Anti-Jamming GPS/GNSS Protection Technology for Drones & Autonomous Vehicles

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**infiniDome is a leading developer of GNSS (GPS) protection and resilient navigation solutions tailored to defending UAVs and ground vehicles from jamming attacks.**

infiniDome develops GNSS protection solutions (https://infinidome.com/?utm\_source=www.unmannedsystemstechnology.com&utm\_medium=referral) that ensure the integrity and reliability of unmanned platforms during jamming attacks, for both commercial and defense applications. With a foundation built on innovative research and development, infinidome has introduced a range of innovative products that have set new standards in GNSS protection.

The company's commitment to excellence and innovation has not only earned the trust of customers worldwide, but has also positioned infinidome as a key player in the global effort to secure critical technologies against the growing spectrum of cyber-physical threats.



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## GNSS/GPS Protection for Drones & Autonomous Vehicles

GPS is the weakest signal used today, jamming attacks have become the most prevalent method of RF assault interference used by criminals and terrorists. The defense world is changing, government customers no longer want a few large, expensive, and powerful platforms but prefer smaller, less expensive, or expendable unmanned vehicles. Traditional military GPS protection products may have been a great solution for these large platforms, but they are no longer viable for the smaller, unmanned ones used today. infiniDome's solutions ([https://infinidome.com/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral)) are a perfect fit for this ever-growing void. We provide proportionate protection for these unmanned platforms in the constantly changing rules of modern warfare.

Learn more: GNSS / GPS Protection for Drones & Autonomous Vehicles ([https://infinidome.com/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral))

**Whitepaper: How** ([https://infinidome.com/wp-content/uploads/2023/05/GPS-Jamming-How-it-Works-Methods-of-](https://infinidome.com/wp-content/uploads/2023/05/GPS-Jamming-How-it-Works-Methods-of-Prevention.pdf?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral)

[Prevention.pdf?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/wp-content/uploads/2023/05/GPS-Jamming-How-it-Works-Methods-of-Prevention.pdf?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral))

**GPS Jamming Works & Methods of Prevention**

**([https://infinidome.com/wp-content/uploads/2023/05/GPS-Jamming-How-it-Works-Methods-of-Prevention.pdf?utm\\_source=www.unmannedsystemstechnology.com&](https://infinidome.com/wp-content/uploads/2023/05/GPS-Jamming-How-it-Works-Methods-of-Prevention.pdf?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral)**

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In this white paper we explore the vulnerability of GPS (GNSS) systems to jamming and how to prevent the mechanics of GPS jamming including various attack techniques and modulations, while learning about the different approaches of mitigation and protection

measures.

[Download Whitepaper \(https://infinidome.com/wp-content/uploads/2023/05/GPS-Jamming-How-it-Works-Methods-of-Prevention.pdf?utm](https://infinidome.com/wp-content/uploads/2023/05/GPS-Jamming-How-it-Works-Methods-of-Prevention.pdf?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral)

## Our Solution

### The industry's most disruptive C-SWaP GPS Anti-Jammer tailored for UAVs



## GPSdome

### GNSS 2-Element Anti Jammer (<https://infinidome.com/gps-dome-1>

[/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/gps-dome-1/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral))



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[GPSdome \(https://infinidome.com/gps-dome-1](https://infinidome.com/gps-dome-1)

[/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/gps-dome-1/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral)) is a small-sized

(tailored for class 1-3 drones), retrofit module (compatible with any GNSS based receivers) that

provides protection against GPS jamming, ensuring the continuity of autonomous navigation and operation under GPS challenged conditions.

(<https://infinidome.com/gps-dome-1>

[/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://www.unmannedsystemstechnology.com/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral))GPSdome protects GPS L1, and at its minimal size, weight, and power consumption, there is no other solution that offers such protection that is as small, light, affordable, or as easily installed as GPSdome. It is also available in an OEM version that weighs just 35g.


More information: GPSdome GNSS Anti Jamming Device ([https://infinidome.com/gps-dome-1/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/gps-dome-1/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral))

## GPSdome 2

### GNSS Multi-Band 4-Element Anti Jammer

GPSdome 2 ([https://infinidome.com/gps-dome-2/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/gps-dome-2/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral)) is the industry's first high-end anti-jamming and fully retrofit solution tailored for defending drones, small-med UAVs, and manned and unmanned ground vehicles from jamming attacks. It is compatible with almost any GNSS off the shelf receiver. Using up to 4 off-the-shelf active antennas, it offers dual-band protection (GPS L1 & L2 or GPS L1 & Glonass G1) from up to 3 simultaneous jamming attacks in each band. With optional mil-spec compliance, it is the only anti-jamming solution relevant for smaller and lighter platforms.

More information: GPSdome 2 Multi-band GNSS Anti Jamming Solution ([https://infinidome.com/gps-dome-2/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/gps-dome-2/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral))

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**Resilient Navigation System – infiniDome & Honeywell solution**

## Safe and secure navigation for UAV in GNSS denied environments

An end-to-end holistic navigation solution with 3 integrated layers of resiliency to complete your critical mission both in GPS challenged and even fully denied environments.

(<https://infinidome.com/robust>

[/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://www.unmannedsystemstechnology.com&utm_medium=referral)) This joint solution by Honeywell and infiniDome provides the best-in-class resilient navigation solution tailored to defend UAVs from GNSS jamming attacks. By tightly integrating Honeywell's Compact Inertial Navigation System (HCINS) with infiniDome's GNSS anti-jamming technology (GPSdome or GPSdome2) (<https://infinidome.com> [/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://www.unmannedsystemstechnology.com&utm_medium=referral)) and Honeywell's Radar-based Velocity System (HRVS), we created a solution that could be installed on almost any UAV, providing it with continuous, accurate navigation data in GNSS challenged or fully denied environments.

The Resilient Navigation Solution (<https://infinidome.com/robust> [/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://www.unmannedsystemstechnology.com&utm_medium=referral)) leverages Honeywell's profound knowledge and experience in world-leading inertial navigation hardware and radar-based alternative navigation capabilities, along with infiniDome's disruptive C-SWaP anti-jamming to bring the world's most resilient navigation solution for UAVs.



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More information: Resilient Navigation System ([https://infinidome.com/?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral))

## OtoSphere

The most disruptive GNSS Anti-Jammer for commercial assets (<https://www.infinidome.com>)

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OtoSphere (<https://www.infinidome.com>) is a small sized and powerful GNSS Anti-Jammer for commercial GPS receivers operating in fleet, maritime and

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commercial network applications. OtoSphere provides protection against GPS jamming, ensuring continuity of APNT (assurance position navigation timing) under GPS challenged conditions.

OtoSphere provides CSWaP (Cost, Size, Weight, and Power) optimized protection at just 74x47x25mm, weighing only 150g, and with a power consumption of <1W, protects GPS L1 from attacks, no other solution that offers such protection is as small, light, affordable or as easily installed as OtoSphere.



More information: OtoSphere GNSS Anti-Jammer for commercial assets

(<https://www.infinidome.com>

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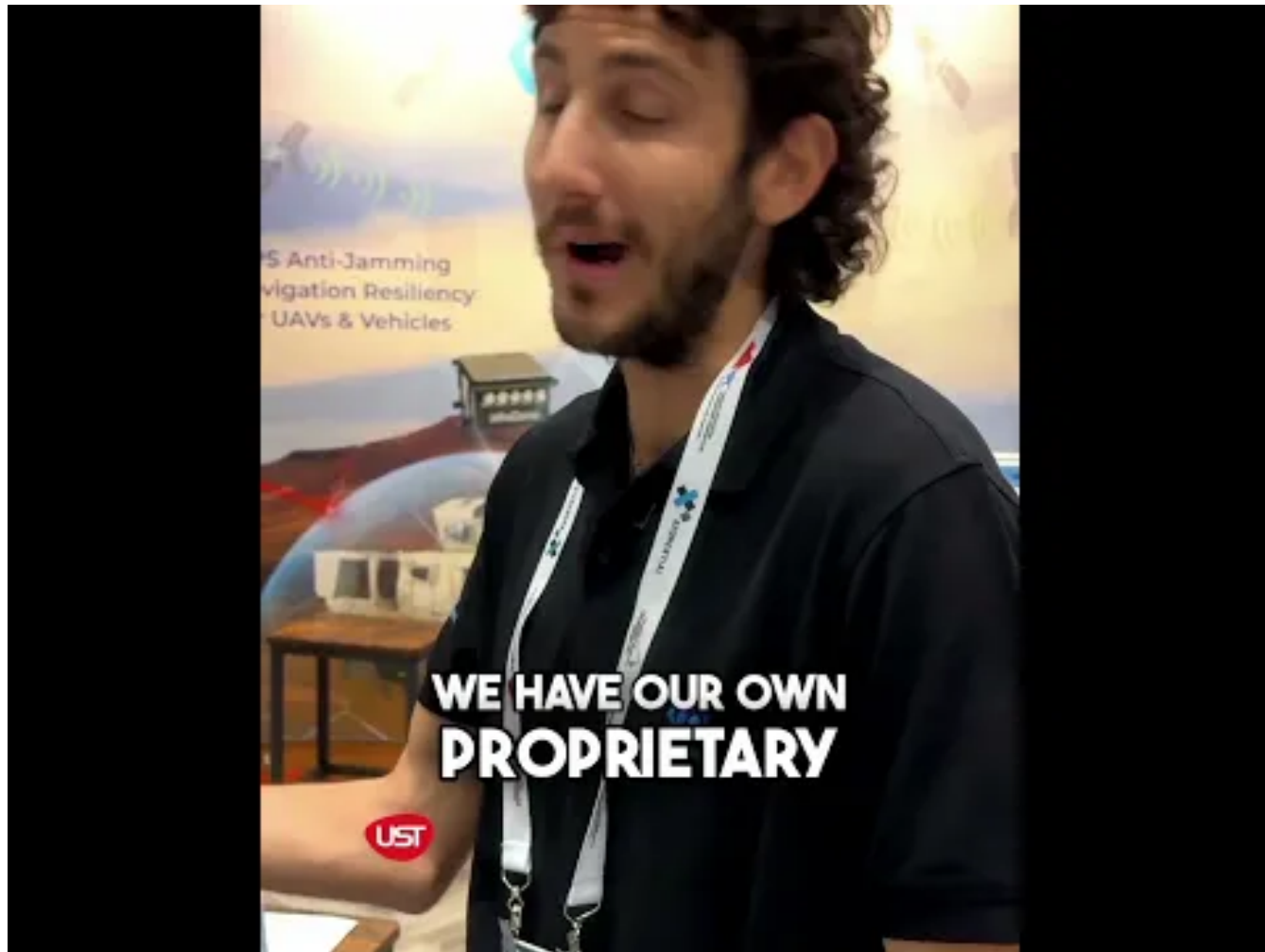
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## Products



### GPSdome OEM

Industry's Most Disruptive GPS Anti-Jammer

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### GPSdome 2 - GNSS Anti Jammer

GNSS Multi-Band 4-Element Anti Jammer

(  
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### GPSdome - GNSS Anti-Jammer

GNSS Multi-Band 2-Element Anti Jammer

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### OtoSphere - Anti-Jamming Device

Anti-jamming module for commercial autonomous vehicles

(  
<https://www.unmannedsystemstechnology.com/company/infinidome/otosphere-anti-jamming-device/>)



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## Documents



GPSdome 1 Datasheet  
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Resilient Navigation Brochure  
([https://infinidome.com/wp-content/uploads/2023/07/Brochure\\_Resilient-Navigation-System\\_UAV-Deployment.pdf?utm\\_source=www.unmannedsystemstechnology.com&utm\\_medium=referral](https://infinidome.com/wp-content/uploads/2023/07/Brochure_Resilient-Navigation-System_UAV-Deployment.pdf?utm_source=www.unmannedsystemstechnology.com&utm_medium=referral))

## Articles

### LATEST

#### infiniDome Expands Operations with New Subsidiary

With the establishment of infiniDome USA, the company will offer more localized support and ensure its GPS protection technologies meet the challenges faced by American aerospace and defense sectors

📅 15 Apr 2024

(<https://www.unmannedsystemstechnology.com/2024/04/infinidome-expands-operations-with-new-subsiary/>)



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## Global Strategies Against GPS Jamming

Discover how industries and governments worldwide are responding against the threat of GPS jamming and ensuring their navigation capabilities

 04 Apr 2024

(<https://www.unmannedsystemstechnology.com/feature/global-strategies-against-gps-jamming/>)

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## infiniDome GPS Anti-Jamming Solutions to be Demonstrated at AUSA

The GPSdome2 is disrupting protection for manned and unmanned ground vehicles and class 2-3 drones like multicopters, fixed wing, and loitering munitions

 09 Oct 2023

(<https://www.unmannedsystemstechnology.com/2023/10/infinidome-gps-anti-jamming-solutions-to-be-demonstrated-at-ausa/>)

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## infiniDome to Live Demo GPS Anti-Jamming Solutions at DSEI

The demonstration at infinidome's booth will enable visitors to participate in an immersive hands-on demonstration of their Cost, Size, Weight and Power (SWaP) optimized anti-jamming solutions

 04 Sep 2023

(<https://www.unmannedsystemstechnology.com/2023/09/infinidome-to-live-demo-gps-anti-jamming-solutions-at-dsei/>)

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## infiniDome Headquarters

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