



Data centers protection

DATA CENTERS | Use case

How to prevent security breaches at data centers

))) The requirement

The protection of data and the centers where the equipment that stores it (servers, switches, routers, power and cooling infrastructures, and telecommunications equipment) has never been more vulnerable to attack. Depending on the size of the data center, be it a single building, shared space, or a campus that covers a large located in non-urban locations, perimeter protection can prevent would-be adversaries from accessing these high-value intangible assets. Companies across the globe are at risk for damages that can cost them in reputation and financially.

))) The challenge

Cyber security attacks and physical security breaches are on the rise and companies need to balance risk with investment in hardening the perimeter. In

addition to Virtual Security measures to protect the network from hacking, malware and spyware, adequate Physical solutions to prevent unauthorized access to infrastructure are required. Damage to electronic equipment, as a result of sabotage, industrial espionage or terrorist attack aimed at service disruption is occurring more regularly and deployment of CCTV equipment is not enough.

A few challenges are presented to the data center security requirement including multiple building protection on a single site, integration into and consideration for existing protection such as access control, turnstiles, fences, cameras and video management systems, guard services as well as environmental conditions depending on location.

Perimeter Intrusion Detection Systems must intercept the attempted intrusion, before damage is done. Microwave technology is the ideal solution.

))) The CIAS solution

Suitable both for indoor and outdoor environments, CIAS's Microwave Radar Murena Plus, with internal cable routing and rain shield, is an ideal choice. It can detect the **size of the moving target** within the area **with an accuracy of 3.28 ft. (1m)**, thanks to advanced Fuzzy Logic analysis.

Like all CIAS digital Fuzzy Logic solutions, it is IP & PoE ready and integrates seamlessly to all major VMS and access control platforms for integrated supervision. The implementation of the 802.1X cyber standard also ensures strengthened authentication of all devices on the LAN of the critical infrastructure. This is the ultimate reinforcement in protection from cyber-attacks.

))) Satisfied customers

CIAS is protecting sites with these requirements and challenges all over the world. In addition to the Murena Plus, the CIAS fence detection systems are also deployed for detection of cuts, climbs and breaches on the fence line.

))) About Murena Plus

CIAS's Murena Plus digital microwave radar operates on fuzzy logic analysis and two doppler frequencies. This gives the sensor the ability to detect changes in signals based on the position of the target and will detect distance, dimension and direction of movement. It rules out environmental disturbances as well as very small and very large targets like small animals and large vehicles.

))) About CIAS

Since 1974, CIAS Security has been protecting critical sites at risk including data centers with its high detection performance security systems. The company specializes in the manufacture of high security outdoor intrusion sensors (microwave and linear barriers, fence detection and short-range radar systems) which are installed in airports, transportation and corrections facilities, energy/utilities/oil & gas, nuclear power plants, data centers, military/government, industrial other critical sites at risk for potential threats.

CIAS has approximately 12 million meters of installed detection systems throughout the world.

All CIAS systems are FCC and IC approved for North American with operations out of Miami since 2016.



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