CIAS protects one of the most important Italian private television station: a case history with Micro-Ray linear barrier

CIAS and the company G&G Electric S.r.l. have secured the production site of a major Italian television station: a complex and highly articulated perimeter, over 2km long, which includes recording studios, warehouses and offices.

The Security Manager of the structure made it a condition that the system must implement the most advanced technologies and guarantee maximum site security.

THE CHALLENGE & THE SOLUTION

The security project required the integration, and in some cases the replacement due to inadequacy or obsolescence, of the anti-intrusion systems already on site, to ensure active security on walls, fences and driveways.

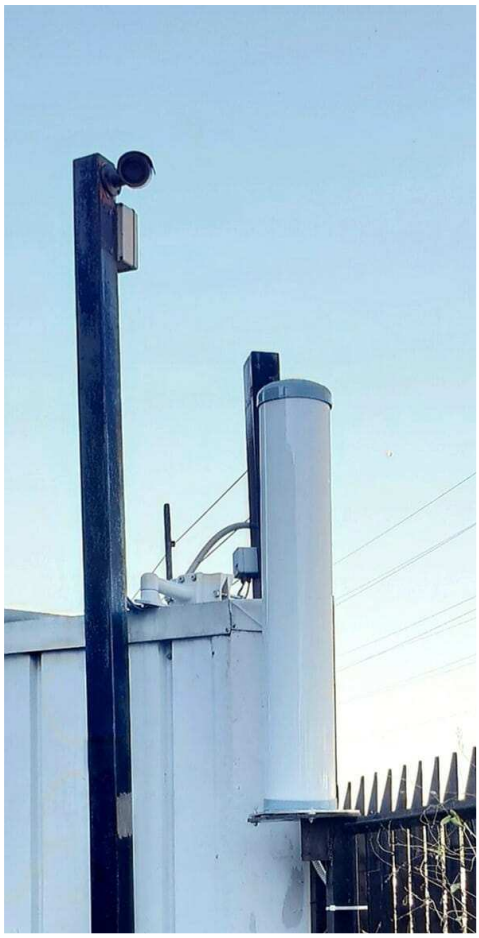
The main challenge was being able to adapt the bi-static microwave barrier- a technology that offers maximum stability and reliability - in very narrow areas rich in vegetation, and therefore impossible to protect without compromise with any traditional barrier models.

The ideal solution was identified in the **Micro-Ray linear barrier**, which offers the revolutionary novelty of microwave rays with a diameter of 40cm, perfectly efficient in a free corridor of only 1m, reaching out for 100m of effective range.

Installation was extremely easy, also thanks to default pre-settings suggested for each ray (depending on their position within the column), which allow the best response to site threats by detecting the most typical forms of intrusion - such as jumping, slow or fast running and sliding - as well as facilitating the process of aligning the TX and RX columns.

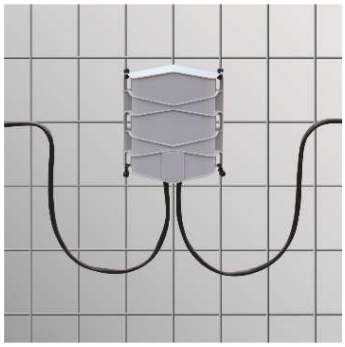
TEST PHASE

The first test phase lasted 6 months, on a segment that put the barrier under maximum stress, i.e. challenging adverse climatic conditions (such as storms and strong fog). Thanks to the microwave technology, Micro-Ray guarantees total immunity to atmospheric factors without even the need for heaters, and with the "collateral" advantage of significantly reduced consumption, compared to any IR technology that would easily become disqualified and would require constant maintenance to remain efficient.



The section of the fence part of the test was in fact already protected by different technologies such as infrared barriers, and in order to increase its security 1 pair of 1m high Micro-Ray columns were placed on the top of the pre-existing rigid fence, equipped with 2 kits of microwave rays inside, in anti-climbing application.

Once the test was successfully completed, the operational phase of inspection of the entire perimeter was then passed, with the evaluation of all the slopes and direction fields, from which the proposal to increase the protection of a further part of the perimeter emerged, integrating it with **SIOUX MEMS PRO2**, fence detection system,



and with **MURENA PLUS radar**, a monostatic microwave sensor capable of retrieving crucial information such as size, speed, distance and direction of the intruder.

All 3 CIAS systems work with **Fuzzy Logic**, are **IP&PoE** and can be perfectly integrated with CCTV and access control.

MICRO-RAY 100mt: a real game-changer in PIDS Industry

Already winner of the **DETEKTOR International Award 2019** as the best innovative product of the year and now of the **GIT Security Award 2021** in the perimeter protection category, **Micro-Ray** was born in 2019 from the CIAS R&D Labs, a true game-changer in the #PIDS highly competitive industry.

Unique in its kind for technology, it guarantees **compliance with grade 4 for EN50131** with a **certified number of false alarms: less than 2 every year**.