

# Legislative Assembly of Maranhão, Brazil



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## Industry:

Government

## End User:

### Legislative Assembly of Maranhão, Brazil

The Maranhão Legislative Assembly, situated in São Luis the capital of the Brazilian state of Maranhão, has built the most modern legislative building of the country. The new seat of Maranhão Legislative Assembly is Brazil's first legislative house to install the state-of-the-art technology regarding security and communication systems.

## Business Objective:

The objective for the Legislative Assembly Plenary was to install a security system that includes the protection of internal and external areas and to ensure safety for those working inside. In addition, the Assembly needed an efficient Sound and Communication System in the plenary hall as well as in auditoriums. It was necessary that the entire security and sound system was supplied by a single manufacturer to reduce maintenance costs.

## Solution:

The Bosch solution installed at the Legislative Assembly include CCTV, Access Control, Fire Detection System, Voice Evacuation, Professional Sound, Conference System with electronic voting and simultaneous translation and Integration by BIS. To cover internal and external areas, approximately 200 Bosch IP cameras were deployed, among AutoDome G4 Series, Flexidomes and Dinion cameras.

The Fire Detection and Alarm System belong to the G Series family and were chosen due to their reliability. The Bosch Access Control and Public Address System are integrated and managed by the Building Integration System (BIS) platform.

In plenary hall, a DCN Discussion System was installed to facilitate the communication between all delegates. PTZ Dome cameras were installed in the plenary hall. The cameras automatically pursue the current speaker while addressing the audience to support the conference solution.

All desks have an integrated voting system by DCN. There are several types of public-address systems throughout the assembly hall. One of them is the ambient system, present in all rooms, which allows a direct communication at all corners of the building. Even the parking areas are equipped with Bosch speakers.



View of Maranhão Legislative Assembly Plenary - Picture by Mozart Latorre

The sound system in the Plenary is differentiated, as well as in the small Plenary ("Plenarinho"). The auditorium also has its own audio system from Electro-Voice, allowing not only seminars, but also music events, performances, etc.

## Result:

One of the great benefits to the Legislative Assembly is the possibility of managing all the systems, including CCTV, Access Control and Fire Systems from one single point, the Operational Command Center. "The study we conducted showed that, if these systems were contracted from different manufacturers, the amount could reach double the maintenance costs", concludes Darci Fontes from Fonmart Technology, who was responsible for the whole project.

According to the administrative coordinator of the military cabinet of the Assembly, Colonel Silmar, "The systems installed allow a great improvement of the safety of all Assembly delegates. There is no way to compare the old security system with the current one. Today the Assembly is equipped with the latest technology", concludes Mr. Silmar.

## Installed by:

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