



### SNOLAB, Sudbury, ON

SNOLAB is an underground science lab specializing in neutrino and dark matter physics. It is located 2km below the surface in the Vale Creighton Mine.

### Products Used

- CS-304
- M-9000MK2



### Purpose

When setting up this facility, life safety was a crucial part of the planning. In an emergency, SNOLAB needs to be able to effectively and intelligibly communicate with their employees throughout the lab. They need to be able to warn of danger, provide emergency and general communications.

### Challenge

The challenge with this facility is its environmental conditions. Because of the nature of their work, and the facility is located in a mine, they deal with issues such as heat, dust, dirt, reflective surfaces and clean rooms. SNOLAB required communications equipment that would work in tough environments and clean rooms.

## Solution

TOA Canada Corporation provided SNOLAB with a design recommendation, which included a combination of Wide Range Horn Speakers and Paging Horn Speakers. These speakers are certified to IP65 standards for dust and water protection. The CS-304 Wide Range Horn Speaker is easy to clean while delivering full range reproduction. This horn is also water resistant and can stand up to the harsh environment within SNOLAB. The head end of the project includes TOA's 9000 Series Modular Digital Matrix Mixer/Amplifier. This Amplifier provides zone paging and DSP. The speakers are driven by TOA's DA Series Power Amplifiers.

## Feedback

SNOLAB is now very confident that they can maintain their high standards of safety and communications throughout SNOLAB by relying on TOA's products.



## About TOA Canada Corporation

TOA Corporation was founded in Kobe, Japan over 80 years ago. TOA operates in over 100 countries worldwide, with manufacturing facilities found in nearly every major market area. These facilities have a reputation for precision design and fabrication, resulting in a proven track record of TOA product reliability.

TOA Canada Corporation was formed in 1990 as a complete sound solutions provider, specializing in commercial audio, including, public address, voice communications, voice evacuation and emergency paging requirements. TOA Canada offers complete solutions for all corporate and commercial audio communications and intercom security requirements.