

CASE STUDY

KUALA LUMPUR INTERNATIONAL AIRPORT: IN THE INTERESTS OF FLIGHT SAFETY

A new foreign object and debris detection system has been installed at Kuala Lumpur International Airport. A product solution from Datwyler helps in the rapid evaluation of data.

Cyberlan Integral Sdn Bhd, headquartered in the Malaysian city of Petaling Jaya, was established in 1996. It provides its customers with comprehensive ICT solutions. For a long time Cyberlan has been using cabling solutions from Datwyler for their physical infrastructures, as these are the best at meeting the company's high standard of quality and performance.

One of Cyberlan's most recent projects is to connect twelve new radar towers and the new foreign object and debris detection system (FODDS) to the air traffic control servers at Kuala Lumpur International Airport (KLIA).

After the prototype at Tokio-Narita airport, the system installed at KLIA – developed by Hitachi Kokusai Electric, the Technical University of Malaysia and the airport management company MAHB – is the first fully operational FODDS in the world built on linear cell millimetre wave radar and fibre optic technology.

Fast, precise evaluation

Within a few seconds this system detects foreign objects on runways within a radius of 500 metres. Thanks to high-



resolution cameras and real-time data transmission, even button-sized parts and their sources can be identified quickly and precisely, increasing safety and simplifying the cleaning process.

The system also has other advantages such as low operating costs, low radio beam emission and high scalability. The latter is particularly important at airports with high traffic density.

Between January and October 2019 Cyberlan installed around 60 kilometres of Datwyler's waterproof "FO Outdoor" cables with loose tube and central tube design and corrugated steel tape armour for the fibre optic connection of the twelve radar towers. The 12- and 48-fibre single mode cables were selected for their robust design, high tensile strength and high-quality Swiss precision manufacture.

"Datwyler is able to offer us a wide range of high-quality Swiss-made products which satisfies the critical nature of our customers' business," explained Silvan Subramaniam, the proprietor and managing director of Cyberlan Integral.

