

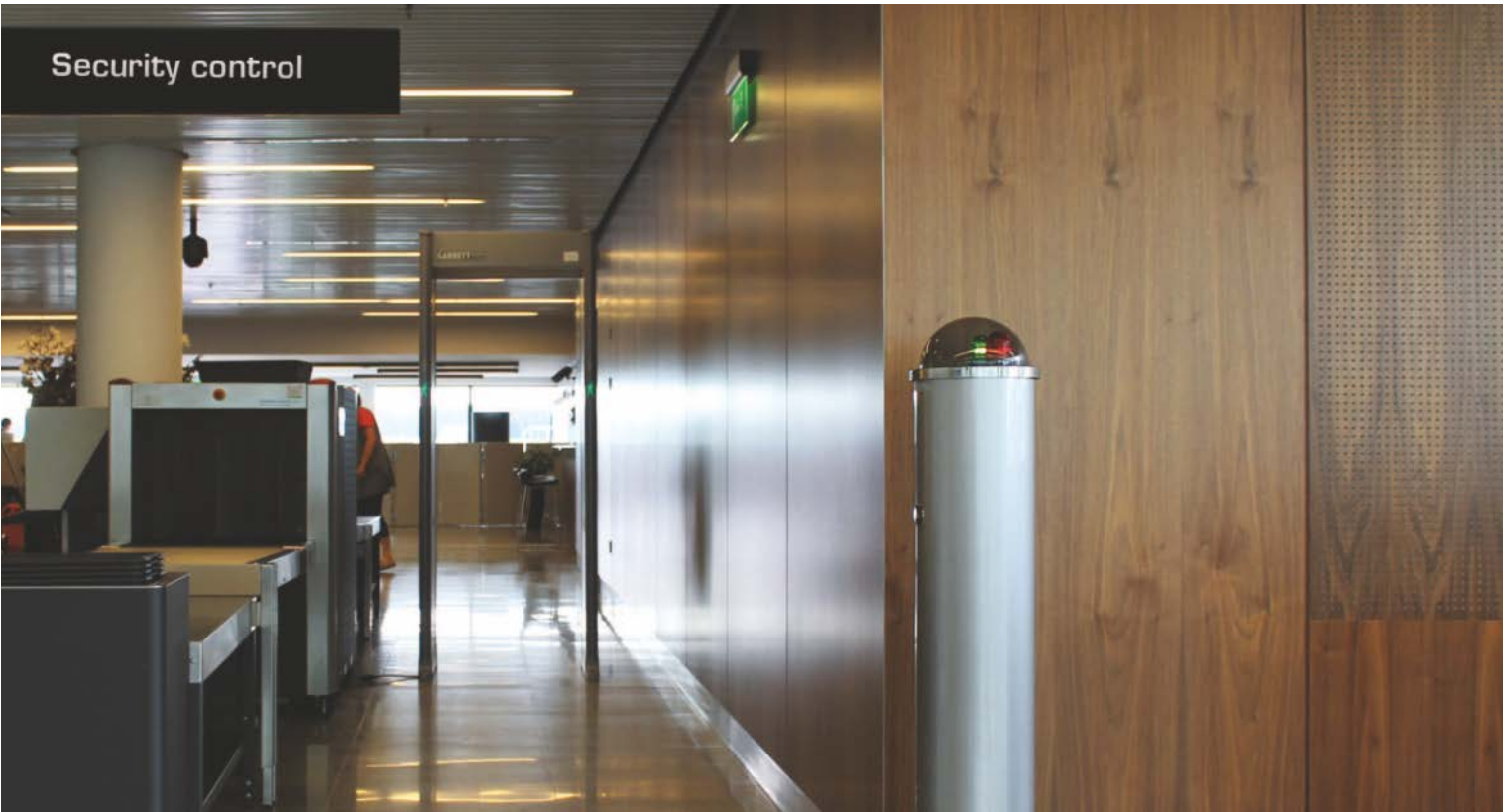
## RADIATION PORTAL MONITOR **SMP System**



# RADIATION PORTAL MONITOR **SMP System**

GAMMA AND NEUTRON RADIATION

**LUMEL**  
EVERYTHING COUNTS



Our radiation portal monitors are designed to detect gamma and neutron radiation emitted by radioactive and nuclear materials hidden in objects that are moving through the control zone.



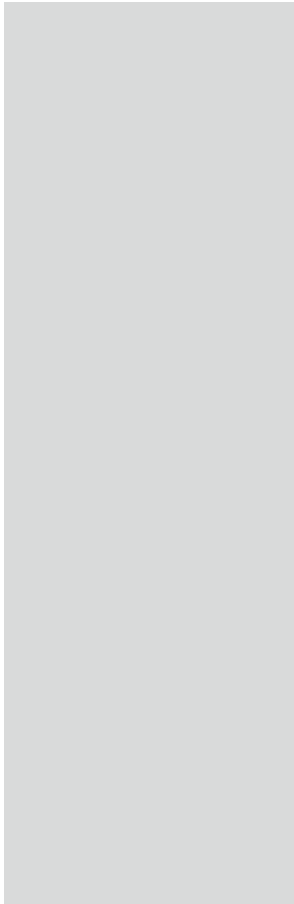
While installed at road, railway, sea or the air border crossings, SMP System is intended to eliminate the illegal transfer of nuclear and radioactive materials in the means of transport, pedestrian traffic or in the hand luggage.



Thanks to several years of cooperation with border guards and scientific institutions, LUMEL S.A. managed to create a modern system of radiological monitoring.



**Radiation Portal Monitor SMP System** is equipped with one or two measuring columns that detect radioactive and nuclear radiation. The controller communicates with the measuring columns, processes the received signals, while the implemented algorithms automatically decide whether to run the alarm. Controller also allows for the visualization of alarms, view the current status, generate and print reports.

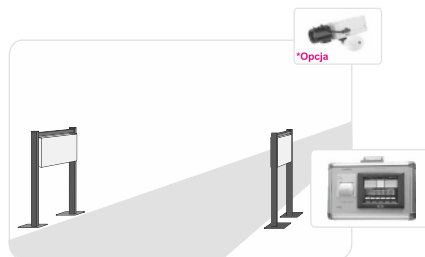
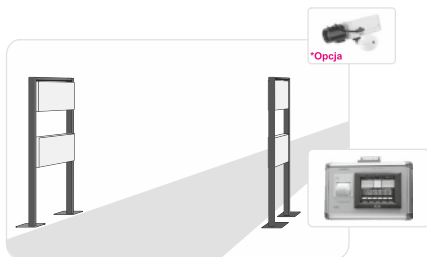


Radiation Portal Monitor SMP system that detects gamma radiation is dedicated to work in the scrap metal industry or at the landfills.

**Use of radiometric control eliminates the threat of radioactive contamination in the recycling processes.**

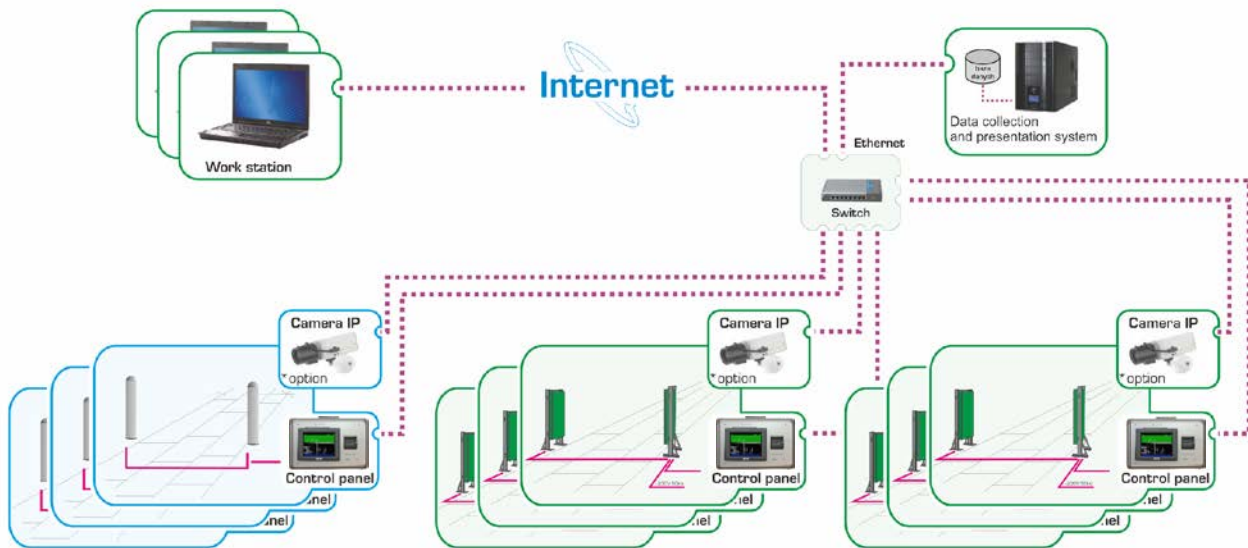


LUMEL's SMP Radiation Portal Monitor system automatically detects the radiation source, which can be buried in the transport moving through the control zone. In case of the presence of radioactive substances, automatic alarm informs employees about the incident.



Main characteristics:

Automatic radiometric control / Generation of alarm / Generation of reports / High sensitivity / Ease of use / Control panel with interactive touch-sensitive screen / Reliability / Speed control / Possibility to control a group of devices by SMP-Studio system / Possibility of video recording / High aesthetics



**Remote Supervision System SMP-Studio performs the function of visualization, collection and distribution of operation data detected by Radiation Portal Monitors installed on one or many locations.**

Remote visualization of the status of SMP RPM's / Recording alarm and emergency data / Recording changes in SMP device settings / The image preview of supervisory zone from video cameras / Saving image of supervisory zone from the course of alarm recorded by video cameras / Compilation and printing information about operation mode and registered events / Automatic backup of computer database / Automatic synchronization of the clock of SMP devices / Supervision of up to 32 supervisory zones / Communication with supervised SMP by LAN or WAN networks



SMP	Podzestawienie SMP	Początek	Koniec
Prosepe Graniczne POLON 2	Alarm Gamma	2010-11-04 09:00	2010-11-04 09:01
Prosepe Graniczne POLON 2	Alarm Gamma	2010-11-04 08:58	2010-11-04 08:58
Prosepe Graniczne POLON 2	Alarm Gamma	2010-11-04 08:58	2010-11-04 08:58
Prosepe Graniczne POLON 2	Połączenie z SMP	2010-11-04 07:37	2010-11-04 07:37
Prosepe Graniczne POLON 2	Połączenie z SMP	2010-11-03 15:54	2010-11-03 15:54
Prosepe Graniczne POLON 2	Rotacja z SMP	2010-11-03 15:54	2010-11-03 15:54
Prosepe Graniczne POLON 2	Połączenie z SMP	2010-11-03 14:08	2010-11-03 14:08
Prosepe Graniczne POLON 2	Połączenie z SMP	2010-11-03 14:08	2010-11-03 14:08
Prosepe Graniczne POLON 2	Rotacja z SMP	2010-11-03 14:07	2010-11-03 14:07



Control panel

Thanks to our long experience gained during production of radiation portal monitors based on Russian and US license, we have designed a state-of-the-art product that meets the current recommendations of the International Atomic Energy Agency in Vienna.

Our RPM system has been developed by engineers from our R&D department in cooperation with the Polish National Center for Nuclear Research and scientists from University's.

After delivering few hundred radiation portal monitors, to both national and commercial customers in Central Europe, our company has become a leader in the field of radiation detection. To this day, we have delivered hundreds of RPM systems.

