



Protectomatic solution in ware house

- * *Automatic ID control of all movements in the area*
- * *Virtual door functions with no mechanical barriers*
- * *Connected to data base with data base with automatic recording of all events*
- * *Full control in a 100% automatic way and knowledge where staff is just now*
- * *Alarm when unauthorized persons try to pass the area*
- * *The ideal solution for cargo areas and ware houses with many transports needing an open flow*

Protectomatic DoorChecker is a new solution for ID control of every one passing through an open door. In areas with many movements a mechanical barrier / door stops the flow a lot. Open doors are needed but security demands make problems if so. Unauthorized visitors can pass in and out the area if not continuously watched.

Protectomatic DoorChecker reduce this problem as it generates a virtual barrier sensed by detectors and ID recognition systems. Everyone trying to pass the open door will be checked by the ID card the staff must carry. If the person have no valid card the alarm is activated and cameras grabs an image of what caused the alarm.

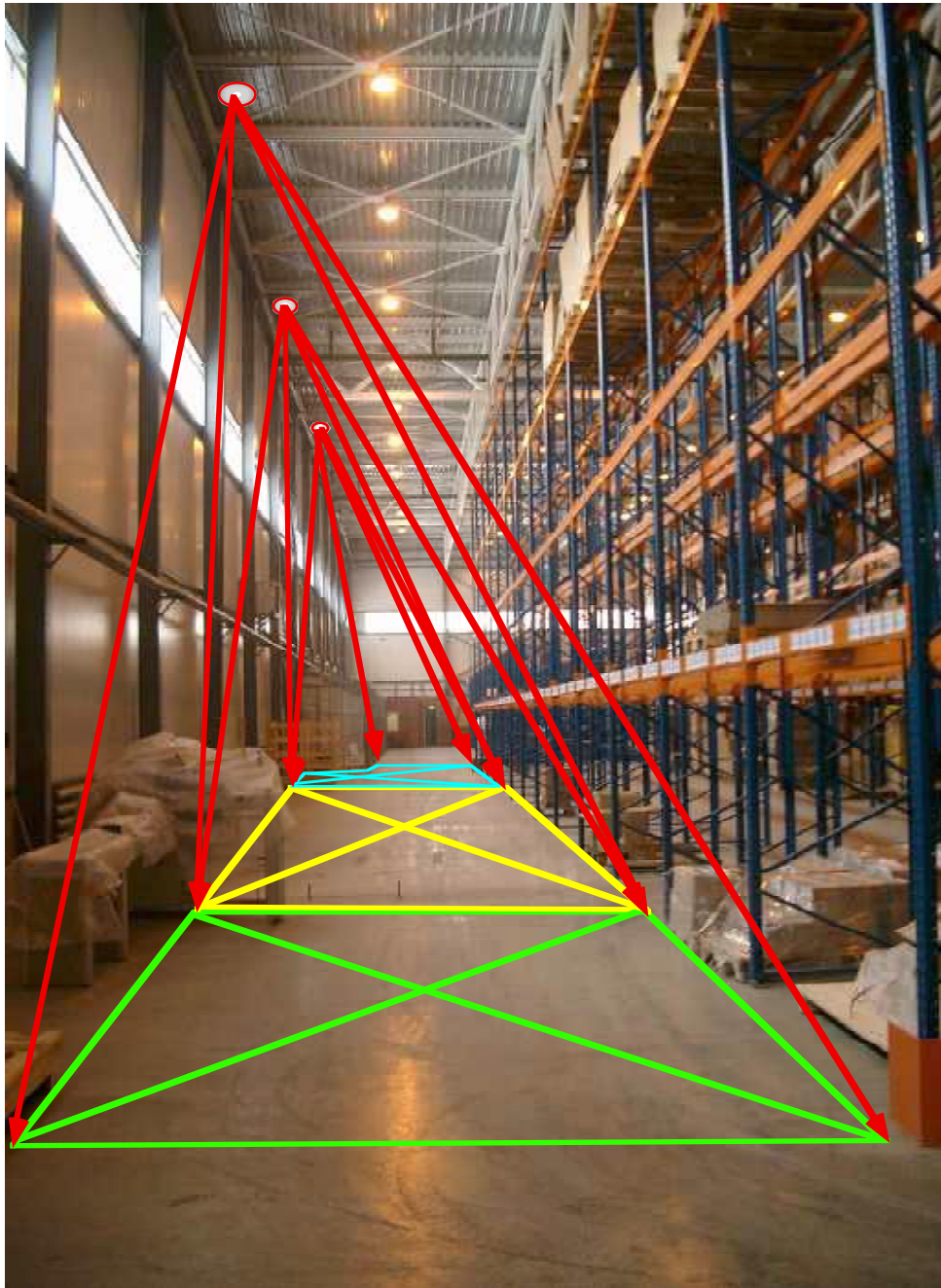
DoorChecker is the perfect solution for cargo handling areas in ware houses, airports and harbours. The system is fully automatic and send alarms when it shall with no need for a continuous check by security guards. Automatic and simple is the key for good operation.

All approved movements are stored in a data base and can be watched when wanted. Cameras can be grabbed of all events. Staff have own ID cards which are visible and carry the RFID system for ID checks. The area checked can be over 10 meter wide and is highly adjustable.

Many of our products are protected by patents and patent applications

Datablad nr PM warehouse05 10 30

Protectomatic area control of ware house



Detectors and ID readers installed in the ceiling or on a wall.

Each reader can cover an area on the floor. Here it sense all movements and read all ID cards in the area. If there is a motion and no ID card an alarm can be activated. If there is an ID card the ID is checked to the data base and all readings are stored. Persons and equipment can be tracked by the ID tags every where in the sensing area of the readers.

Protectomatic cameras can grab an image of what caused the alarm and store and show it for security staff.

Squares on floor shows the detection areas. Detectors are on the ceiling. Lines shows edged of detection areas. Colours separates the zones.

Protectomatic sensors have booth an ID reader reading the ID tag carried by staff. It do also have a Detector sensing someone is there. The detector starts the reader which checks the ID cards. This is very simple. Optional cameras can grab an image over the area.

Here readers are on the wall or ceiling of the house. Normally we have an over lap so in border areas 2 sensors detect same persons. This gives no blind areas but do also add some information on where in the area the staff is located. We can also sue signal strength but this is not very exact in houses with lots of metallic parts due to reflexes.

The updating speed is typical 1-2 sec per reading. The net work can if so find all the staff and where they are just now in a few seconds. The data base can store all movements and who is where etc.



Protectomatic readers can check different things.

Equipment like trucks can have a ID tag and be continuously followed and find in an easy way. Staff carry an ID tag and they can be traced and find easily. If there is an accident the system shows who is where and where to find missed persons. The optional 2 way tags can send an alert to the staff. They can also be used by staff to alert the security staff if something happens.

ID tags can be added to stored equipment. Then they can be used for automatic inventory applications. Computer can see in what area some equipment is just now which can help logistics a lot.

Two way tags can start up when someone move the tag. This can be used as an alarm for thieves etc.

Image shows a detector on the ceiling. The trucks have ID tags and are followed by the automatic inventory software. The driver of the truck have a ID tag and it operates as a positioning device so driver can be found in all situations. It can also act as a security device for improved driver safety and security. In case of accidental fire and smoke the system can show where the staff is and if they are saved somewhere.

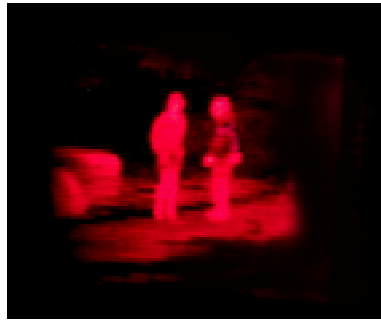
Several stored pallets are tagged and can be find by the automatic warehouse software. Area and movements of pallets can be traced. The pallets can also be protected by alarms if someone touch them. Markings on the floor tells borders of the active zone.

Protectomatic are available with different ranges. Normal is a range of 20-30 meter and this can be adjusted at site to what is best. We do also offer a 200 meter solution for out door areas and very large open ware houses.

The net work can cover very large areas and have hundreds of readers and thousands of tags in the protected area. Software is PC and operates in Windows environment.



Protectomatic in ware house Automatic security solution



Technical specifications in short

ID card reader distance range typical 0-30 meter line of sight

Response time typical 1-2 sec

Detector range typical 20 meter for triggering the reader

Technology normally passive PIR thermal sensor

Field of view circular 360 degree

Detector normally centred to the ID reader sensing area

Operating voltage normally 12 volt DC with battery back up

ID card / Tag

Type of function active RFID with battery integrated

Battery life time 6-12 months

Identity burnt into the chip

Sensitivity and update rate adjustable

Central processor unit CPU PC system in Windows environment

Net work with TCP / IP protocol and encryption

Database where user can set all key parameters and control data base

Cables Cat 5 cables or W-LAN

Camera system with PAL cameras

Typical resolution 480-600 TV lines

Cameras do normally have IR support illumination for day and night operation

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