



**Protectomatic
Perimeter and border
protection**



Protectomatic features

- * All systems have a detector looking for movements and variations in the controlled area
- * All alarm points have a long range RFID reader talking with ID tags carried by all in the staff
- * All systems check ID of all movements and send alarms when there are no correct ID tags in the area
- * All systems have a net work design where numerous detectors and sensors can communicate
- * Protectomatic is designed for the TSS , Total Security Solution needed in the complicated future

Main parts of Protectomatic system

- * All systems have a **detector** sensing all movements in the area. (often combined with a camera).
- * All systems have a long range **RFID reader** looking for ID tags carried by the authorized staff or moveable objects.
- * All systems have a **net work** solution with a data base where all settings are stored with all related events.
- * All sensors and readers communicate with a **data base**
- * Central with **PC with related staff** or operating automatic and unmanned.
- * Alarms generated can be **transmitted** to guards who can see what was caused the alarm
- * **Web interface** and **SMS/ MMS** messaging

Protectomatic RFID reader



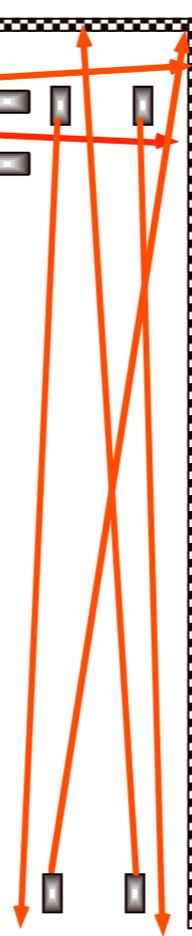
- * Short range model up to 30-50 meter
- * Long range model up to 500-700 meter
- * Two way communication
- * Personal ID taggs for all in staff
- * Data base for controll and maintenance jobs
- * Net work over large areas
- * Web interface / SMS MMS messaging
- * Time stamping and position of all logged events
- * Optional camera images of all events

Static beam system - LaserSnap

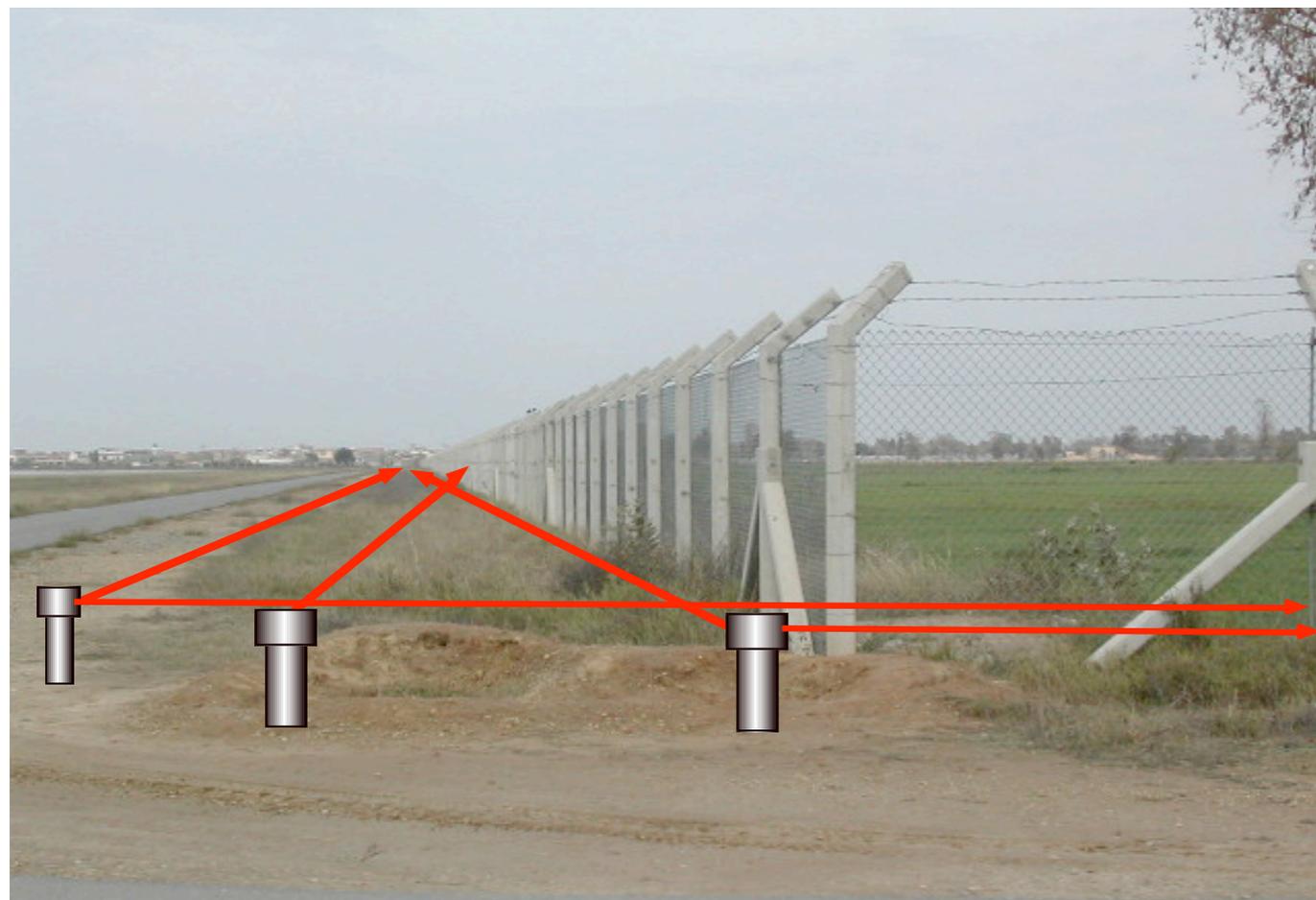


- * Laser photocell solution
- * Range 300-800 meter without reflex
- * Range over 2500 meter with reflex on far end
- * Invisible IR laser class I
- * Fail safe operation and self check functions
- * Computer interface and relay output
- * Optional cameras and solar power operation
- * Several models available

Laser snap installation Perimeter protection



Top view shows the installation where the beams are crossed so there are no dead areas where intruders can penetrate or reach sensors.



Bottom view show same ideas from the side. Range can be 2500 meter of each sensor. Reflex or no reflex operation capability



LaserGrab System
Automatic perimeter
protection at an air
port fence



Image of a scanner
in operation. Area
coverage up to
200-300 meter in
distance

- * Lasergrab scans the area horizontally or vertically
- * Static area is memorized as a distance profile
- * All variations in profile generate an ID check + alarm
- * Alarm level can be defined by shape, position or volume. Optional cameras shows what caused the alarm

Scanning beam system LaserGrab



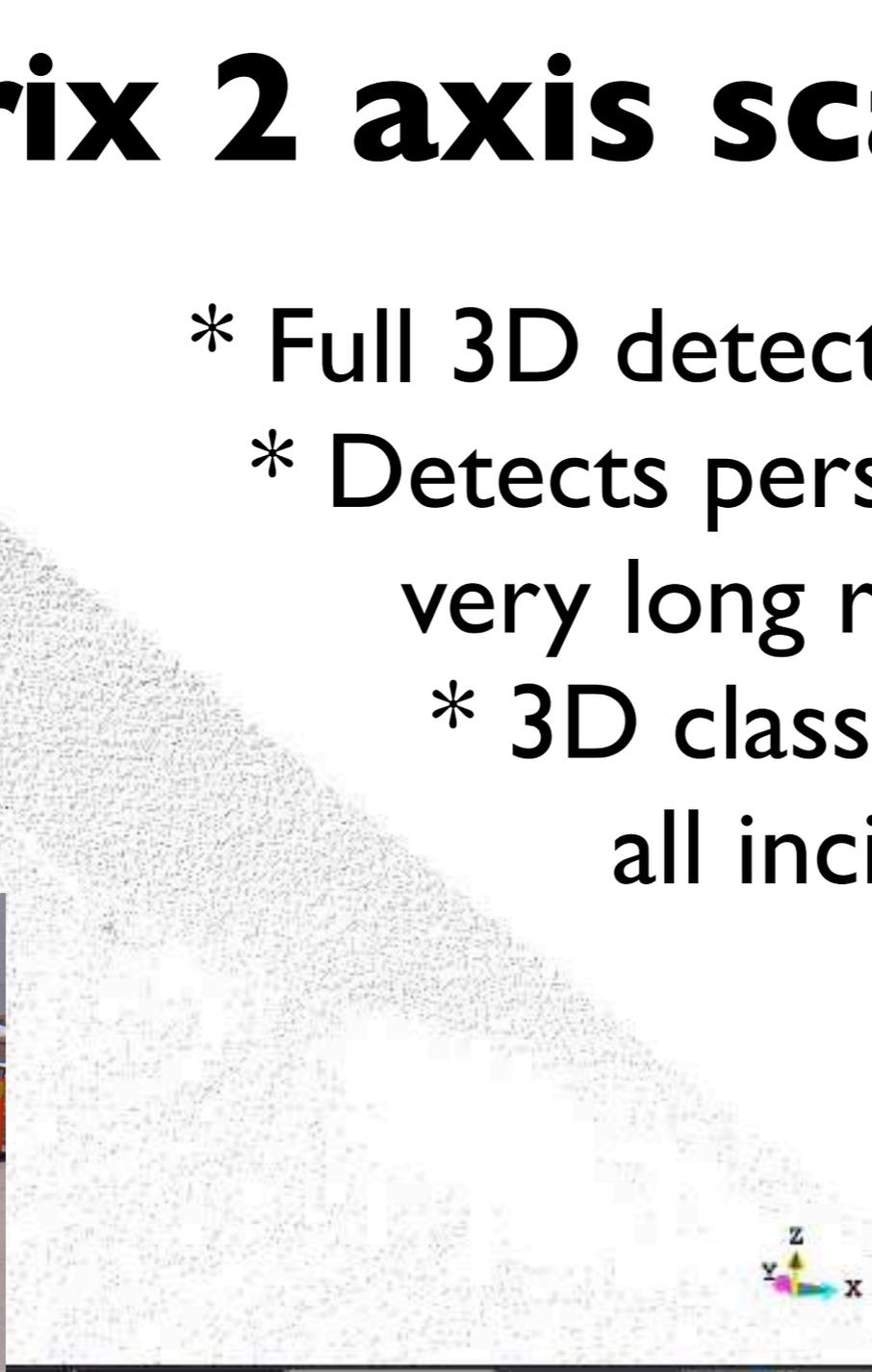
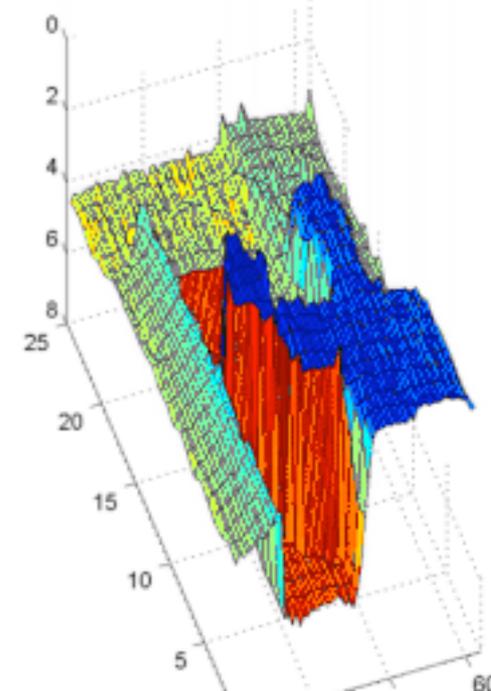
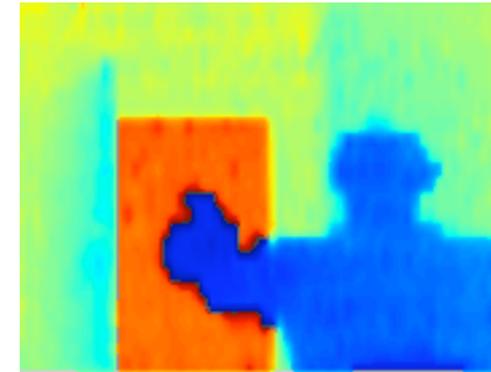
System for detecting persons in rail road crossings

- * Single axis laser radar scanners / profilometers
- * Scan a profile and look for differences in the 3D shape
- * No effects of colour and ambient light
- * Cover areas and detects very small objects here
- * Range 200 to 300 meter for personal alarms
- * Computer interface and image grabbing of all events

Matrix 2 axis scanners

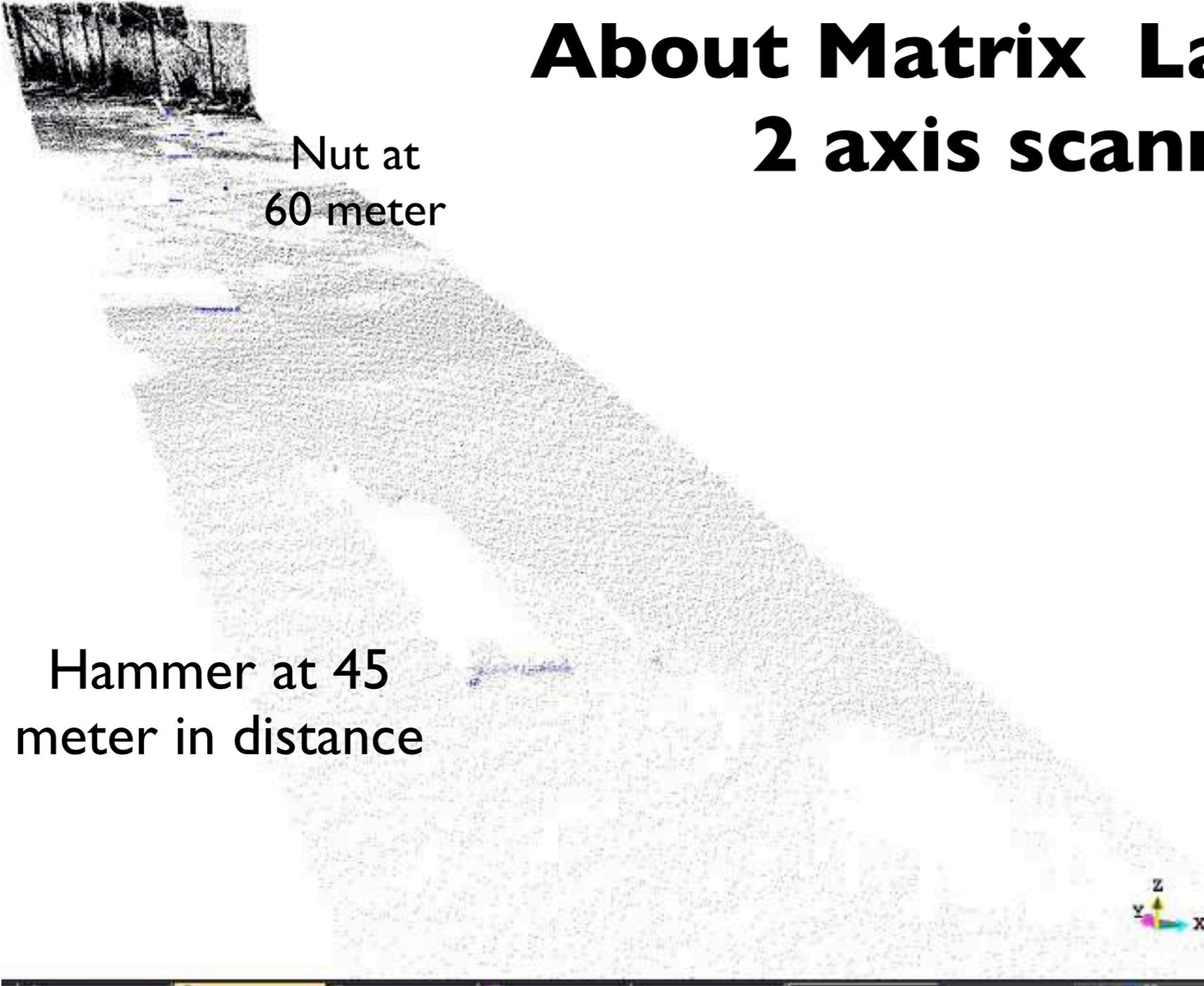
Image + photo
is same area

- * Full 3D detection
- * Detects persons at very long range
- * 3D classification of all incidents



Long range version up to 400
meter in range
Short range version up to 7 meter
in range with high resolution

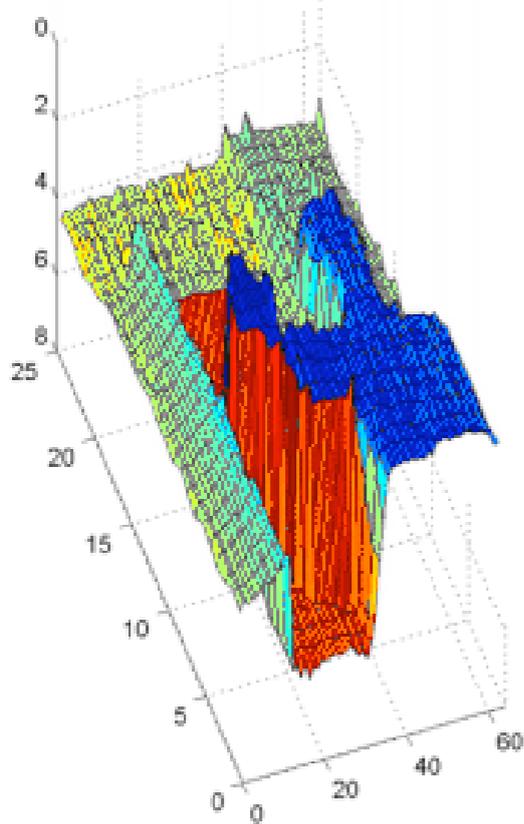
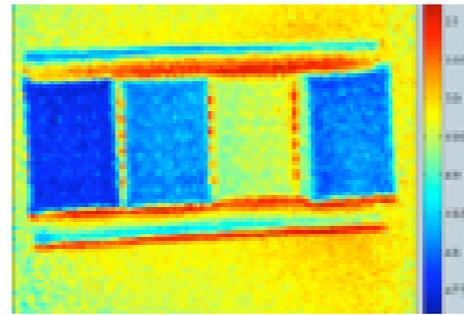
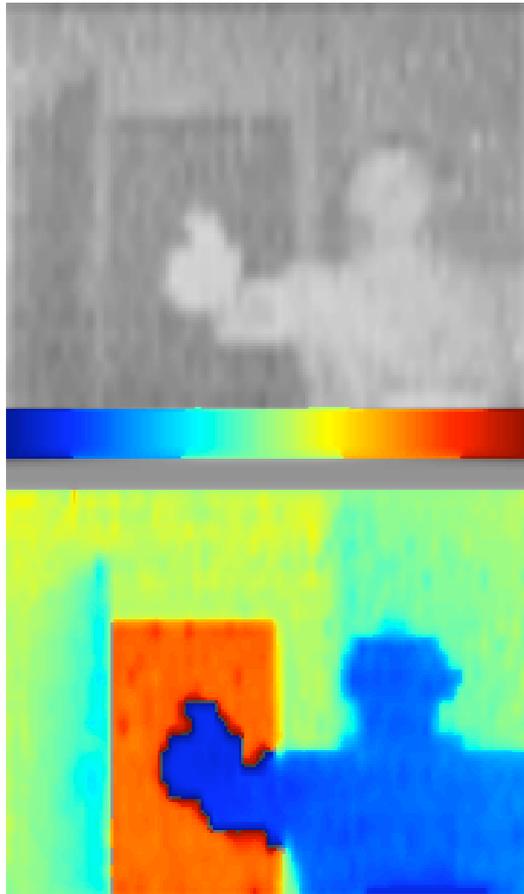
About Matrix Laserradar 2 axis scanners



- * Range to 350 meter independent of object colours and ambient light in night and sun shine
- * Very high resolution capable of detecting and classification of all type of incidents

About Matrix Laser radar

2 axis grabbers



- * Array scanner
- * No moveable mechanics
- * 30 complete images per sec
- * 120x160 pixels + depth per each pixel
- * Max range 7 meter indoors
- * Accuracy 5 mm in depth for all pixels
- * Realistic price level
- * USB computer interface , internal micro controller or calculations