OPTIMX

Storage Solutions & Security Systems

OPTIMX Ltd : distributor of RAMAR Ltd in mainland Europe

- *Bespoke design and manufacturing services to the police forces for vehicle based storage systems*
- *Vehicle Ignition Override and Anti-Theft Device for law enforcement and emergency services*

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RAMAR
weapon
storage

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Ramar Limited is a design and engineering company based in Essex, United Kingdom. OPTIMX Limited is the distributor of RAMAR products in mainland Europe.

For 16 years, RAMAR has been providing design and manufacturing services to the UK police forces for vehicle based storage systems. Today, more than 50% of the UK Forces have RAMAR weapon storage in their Armed Response Vehicles.

There is no standard product. Each design is adapted to the need of the customer and is achieved by adaptation of now proven standards. The photos within this presentation are examples of solutions that RAMAR have developed and manufactured to very specific requirements.

Police vehicles are a notoriously harsh environment. RAMAR gunboxes have travelled over an accumulated 100 million kilometres and many crash proven designs.

All products are fitted by the Police workshops or the vehicle commissioner and require minimal adaption of the vehicle [no cutting of seats etc...]

3 types of gunboxes :
demountable, fixed and locking sliding drawer system

Sliding drawer or shelf systems : completely integrated, vehicle specific, optimised space, soft upholstered.

Demountable boxes :

Can be removed from the vehicle in seconds without tools, providing access to the interior.

Usually designed to fit a range of different vehicles.

Carry the weight penalty of their mounting systems.

Soft upholstered.

Fixed boxes:

Require tools to remove them from the vehicle, although may only take minutes.

Vehicle specific.

More space efficient and lighter.

Soft upholstered.

RAMAR weapon storage

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The boxes in these photos have a lower weapon tray and a rear hinged lid locked at the front.

Material : in steel or carbon fibre composite to reduce weight.

All the boxes are delivered to the customer with **fitting instructions**.

The Gunboxes can be fitted with white and/or red **interior LED lighting**.

Any type of lock conceivable

- Digital key pads with electronic motorised bolts.
- Camlock handle operating over centre grab latch.
- Blade key to spring latch.

The gunboxes can be fitted with a manual key release lock system combined with an electrical remote release mechanism.

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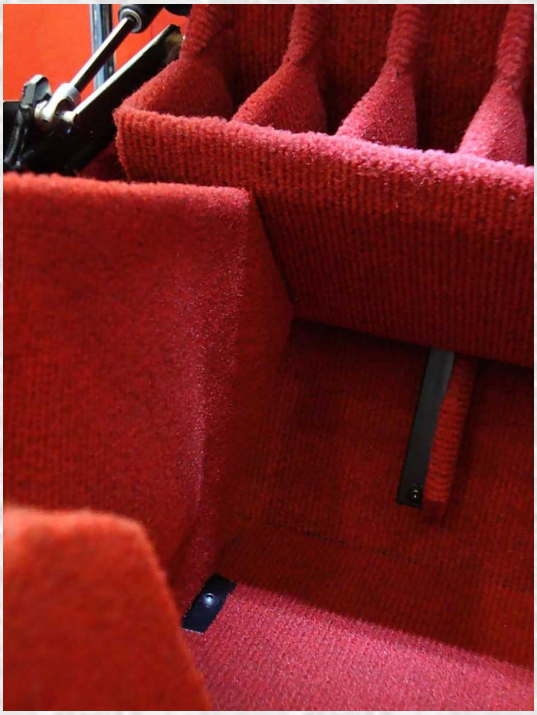
Demountable Gunboxes

No corners or edges.

Designed to reduce the risks of a side crash.

Best location in the middle of the vehicle: close to the centre of gravity.



Manual or electrical opening system.

Red or black **upholstery interior**. White was used for the prototype gunbox opposite.

Interior lights : red and/or white or no lights can be selected before the box is opened.

RAMAR weapon storage

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The biggest weapon Storage made to date

Typical of RAMAR's approach - give us a problem and we will endeavour to resolve it :

Top tray to carry weapons : the customer required the ability to *make ready* the guns and we designed a flexible tray on the top of the box to hold the driver's *ready* weapon under a retaining strap.

3 Police Forces use this feature.

Fixed Gunbox fitted in a Ford SMax, carries more weapons that any other made.

Additional lights.

Was also in an accident, where the car was hit from behind (written off).

The box was simply removed from the crashed car and fitted into another.

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Locking Sliding Drawer System

2 examples of a locking sliding drawer system, which can replace the usual locking box system.

This **Range Rover** is part of a **protection group**.

Mounted in the boot of a **Ford S-Max**.

The drawer and the storage area swivel up to ease access.

Reinforced sliding arms to allow for required span.

RAMAR weapon storage

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Large Demountable Military Box

Carries a large quantity of standard NATO assault rifles with their ammunition.

Configured to meet NATO weapon storage policies.

The box is made in steel / carbon fibre composite.

Designed to be stored on the wall of an Armoury building, it is hand-carried and mounted on the vertical bulkhead of a van or fitted flat on a pickup type vehicle.

No damage sustained in major road traffic accident

This demountable clamshell box has been in service for over two years.

It was recently in a vehicle driven at speed, head on into a solid brick wall.

The vehicle was written off. Both officers fortunately survived.

The box was checked by Ramar before it was returned to the Police Services, where it was fitted in another vehicle.

No damage sustained in the accident.

DEVIL A0-2E

The RAMAR DEVIL is a **vehicle anti-theft device that allows the engine to be left running safely, with the key removed from the ignition and with the vehicle locked**. The engine cuts out as soon as someone attempts to drive away without re-inserting the key in the ignition.

Ideal for
- → law enforcement
- → emergency services: ambulances, fire brigade
- → breakdown assistance services

where the engine provides the primary source of power.

Vehicles
- → cars
- → motorbikes
- → commercial vehicles
- → trucks/lorries

The battery keeps charging and provides adequate power to :
- → lights (headlights, warning, blue and other scene lights)
- → radios
- → air conditioning (can be left for dogs)
- → other ancillary equipment or electrical accessories

Anti-theft device : without the key, the engine cuts out
- → as soon as the handbrake is released
- → the foot-brake is applied
- → or when the shift lever moves away from 'Park' (automatic transmission)

The RAMAR DEVIL has a long track record as a **robust reliable cost effective** way of ensuring vehicle security whilst in operation, **simple** yet **effective**.

RAMAR also offers a bespoke service to configure the RAMAR DEVIL to match customer's requirements.

This product must be used in accordance with the Highway Code and current legislation effective in your country relating to road vehicles.

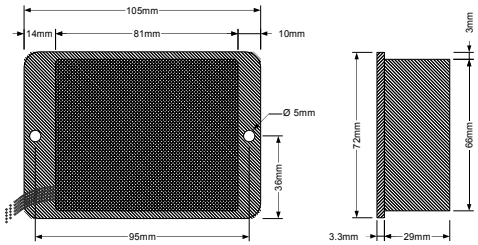
DEVIL V10 – New !

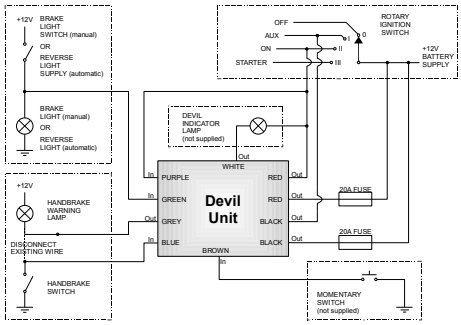
The DEVIL V10 is the **new runlock generation** : a programmable control system, connected to the vehicle communication network.

This device offers the same features as the DEVIL A0 **adapted to current vehicle technology**:
- → vehicle communication network interface (CAN et LIN bus)
- → key-fob tray management
- → remote door locking while the engine is left running
- → simplified installation (within minutes)

A more **flexible programmable anti-theft system**: the engine cuts out when
- → the engine speed is higher than a set value
- → the vehicle moves
- → the handbrake is released
- → the shift lever moves away from 'Park' (automatic transmission)
- → other specific conditions can also be conceived

OUTLINE DRAWING





- **Voltage:** 12V DC operation (24V version also available)
- **Outputs:** ◦ 2 separate 20A by-passes
  ◦ 1 ground output, which can be used for an Indicator Lamp/LED, or to drive another 10A ancillary
- **Inputs:** ◦ 2 battery +12V supplies (power supply to runlock and brake light switch)
  ◦ 1 ground input (handbrake)
  ◦ momentary switch input to ground
- **Dim.:** 105 x 72 x 32 mm^3
- **Weight:** 320gr
- **Temp.:** -30°C à 85°C

- Simple installation
- Fully encapsulated
- Momentary “push-to-make” switch and optional runlock indicator lamp/LED not supplied : customer or vehicle specific
- End of line rig test : all units fully validated
- Generic wiring schematics guidelines, installation recommendations and functional validation instructions supplied
- 'E'-marked compliant to 95/54/EC and 89/336/EEC
- Approved for Emergency Vehicle Use by the Home Office VIDG
- 3-year manufacturer warranty
- Made in UK

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