

# ««« BALISEUR »»»

**Patented system  
for laying and retrieving traffic cones**

**Make the road safer**



Developed and produced by



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In partnership with  
 **APRR**

# ←← BALISEUR →→

Developed by OPTOMACHINES in partnership with the french motorway company APRR,  
the BALISEUR brings an efficient solution  
for a safe and ergonomic laying & retrieving of standard traffic cones.

## Gain safety

Each day the road workers operate for signaling dangers and protecting the motoring public. When they lay and retrieve cones, they are exposed to the danger. They use to lean out of the vehicle without any protection. Today with the Baliseur, the road operator remains inside the vehicle and doesn't need to lean out. He is protected by the device.

## Gain ergonomics

To lean out for laying or retrieving cones over kilometers is a hard task. The road operators use to lift hundreds of kilograms. Today with the Baliseur, the cones arrive at human gripping height, which means less fatigue.











## Functional and adaptable

The Baliseur is adaptable and functional. The system consists of a motorized ramp, a motorized lifter fixed inside the van (stationary or rotative) and electrical components (electric box and video elements). It has been originally designed to be installed in a van (supplied by the customer) with lateral doors, but it is also available in other configurations : functioning on the rear of a vehicle for example, and adaptable to other vehicles (like pick-up). Cone laying is carried out forwards at 20 km/h maximum, retrieving backwards. Retrieving forwards is possible according to the configuration. Driving in reverse is facilitated by a video camera placed on the rear-view mirror. A colour monitor on the driver's dashboard helps the driver to pick up the cones straight in the axis. A night/day function includes an infrared projector for avoiding dazzle on oncoming drivers.

The Baliseur copes with all normal road conditions except snow, icy road and stormy weather (violent rain and wind).





At the end of the intervention, the Baliseur is folded and stored inside the van without any effort, with a motorized system.

## Specifications

-  - System for laying and retrieving standard traffic cones. Number of cones depends on the vehicle capacity.
-  - Can be installed on the right or left side or behind (depending on the configuration) the vehicle in less than 2 minutes.
-  - Setting driving forward, retrieving backwards.
-  - Retrieving forwards is possible upon request.
-  - Max work speedness : 20 km/h
-  - 1 or 2 screens 10"
-  - Waterproof camera
-  - Lightweight : approx. 130-150kg. The system is stored in the rear side of the vehicle thanks to a motorized lift system.
-  - Floor area folded inside the vehicle : from 0,8 x 0,85 m to 1,6 x 1,6 m
-  - Floor area deployed outside the vehicle : 0,78 x 2,2 m
-  - Width outside the vehicle (installed on lateral sliding doors) : 0,95 m
-  - Warning stripes K5c type (white and red).
-  - Power : 600 watts, 12 VDC on the vehicule battery.



## Advantages

-  **More security :**
  - The operator remains inside the vehicle, protected.
-  **Less painfulness and fatigue :**
  - The operator doesn't need to lean outside and lift the cones, they arrive at human gripping height.
-  **More visibility :**
  - Signalling of the Baliseur with white and red reflective stripes
  - Seen as an extension of the vehicle, visible and steady, the Baliseur keeps the traffic away from the operator
  - The camera and the monitor(s) increase the visibility and help the operator and the driver in their work, even at night.
-  **Ease of use and ergonomics :**
  - The Baliseur is lifted through a motorized system
  - Lightweight, it is easy to move
  - The mechanical systems are simple
  - After use, each part (camera, fastening bar) of the Baliseur is stored on the vehicule's walls.



**Without Baliseur**



**With Baliseur**



**No need to lean out**  
**Less fatigue**  
**Ergonomic height**



**The operator remains inside the vehicle**  
**Protected by the device**

**Lays & Retrieves**



**Better visibility**

**Marking with white & red stripes.**  
**Keeps the traffic away**



# BALISEUR

## 3 configurations available

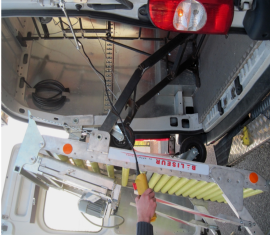
### Configuration n° 1

#### Lateral Baliseur, manual deployment on the road



##### Functioning :

The Baliseur is fixed to the left or right side of a van equipped with sliding or roll-up doors.  
Cones laying forwards, retrieving backwards or forwards.  
A camera fixed to the outside mirror increases visibility of the traffic for the driver and the worker.



##### Installation :

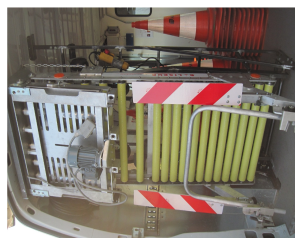
- 1) Loading and discharging at the back of the van, with a motorized system. The Baliseur is dropped on the road effortlessly.
- 2) The road workers prepare the Baliseur on the road on the back of the van, within the safety zone. They push it like a trolley to the lateral door.  
They fix it to the van.  
Total installation time : 2 minutes.  
The operator remains inside the van during the setting and retrieving.  
Max. speed : 20 km/h



##### Storing :

Storing on the back of the van : 0,80 x 0,85 cm (floor area).  
Weight: approx. 100 kg  
Weight of the electrical box and other mechanical parts : 30 kg  
Dim. Deployed : L : 2,2 m ; l : 0,78 m

This configuration is presently in use in France, and has just been awarded by Eiffage within the « innovation Trophees ».



### Configuration n° 2

#### Rear Baliseur, automatic deployment without human intervention on the road



##### Functioning :

The Baliseur is fixed to the rear of the van equipped with a special frame. Cones laying forward, retrieving backwards.  
A camera fixed to the rear of the van increases visibility of the traffic for the driver.

The operator is maintained by a harness. He lays and retrieves the cones at the rear of the van.

The Baliseur is fixed on a rotary table, to orient the Baliseur to the right or to the left side.

The cone setting is made in line with rear corner of the van, without offset.

##### Installation :

- 1) Loading and discharging on the back of the van, with a motorized system, driven by the operator inside the van. The Baliseur is dropped on the road effortlessly, and remains fixed to the van during the whole process.



- 2) The operator remains inside the van during the deployment and the functioning.  
Deployment time : 1 minute  
Max. speed : 20 km/h

##### Storing :

Storing on the back of the van : 1x 1,1 m (floor area).  
Weight : approx 100 kg  
Weight of the electrical box and other mechanical parts : 50 kg  
Dim. deployed : L : 2,2 m ; l : 0,78 m

This configuration is presently in use in Switzerland.



### Configuration n° 3

#### Lateral Baliseur, automatic deployment without human intervention on the road

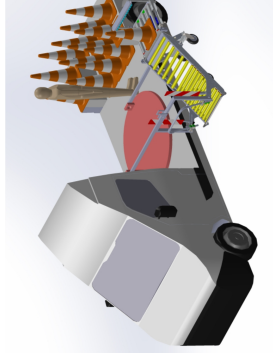
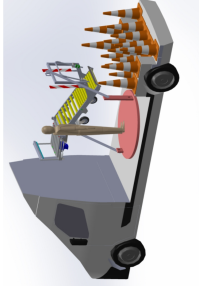


##### Functioning :

The Baliseur is fixed to the left or right side of a van equipped with a special frame prepared for receiving the system.  
Cones laying forwards, retrieving backwards or forwards.  
A camera fixed to the outside mirror increases visibility of the traffic for the driver.

##### Installation :

- 1) Loading and discharging on the left or right side of the van, with a motorized system and a rotative table, driven by the operator inside the van. The Baliseur is dropped on the road effortlessly.  
The operator remains inside the van during the whole process.



- 2) The worker remains inside the van during the deployment and the functioning.  
Total installation time : approx 2 minutes.  
Max speed : 20 km/h

##### Storing :

Storing inside the van on a floor area of 1,6 x 1,6 m  
Weight : approx 100 kg  
Weight of the electrical box and other mechanical parts : 50 kg

This configuration is a variant of conf. 1 & 2.

