

## LONG RANGE SCARING BIRDS CARTRIDGE

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### ABSTRACT

**Purpose:** Today, most of the "bangers" on the commercial market, explode at 50 to 100 meters. The birds get trained to a "frightening distance" and fly away when the bird patrol car is approaching them, before fire, but not far away. Moreover, if the shot is performed from the control tower, the range is too short for scaring birds on the runway. Finally, security problems occurred with 12 gauge bangers, which exploded in the gun very often. That is why it was necessary to develop a new product to solve all these problems.

**Description of the cartridge:** The projectile is a small PVC rocket containing a pyrotechnic powder, propelled by a mini rocket engine moulded in PVC. There is no noise when the projectile is fired, in order to mask the origin of the shot and so avoid habituation. No metallic components are used in order to avoid damage by ingestion of small fragments on the runway, after the shot. The noise level is about 120 dBA at 10 meters from the explosion, before propeller hitting the ground. The range is about 400 meters.

Environmental testing:	Operating:	-20° to +40°C
	Storage:	-10° to +40°C
	Shelf life:	3 years.

**Description of the launcher:** The launcher is a single shot pistol, with an easy system of sighting, permitting to estimate the shot angle in order to obtain explosion at the right range. The fighting is obtained with the percussion of the cartridge, without adding of primer.

**Reference of manufacturer:** RUGGIERI - Route de GAUDIES - 09270 MAZERES - FRANCE  
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