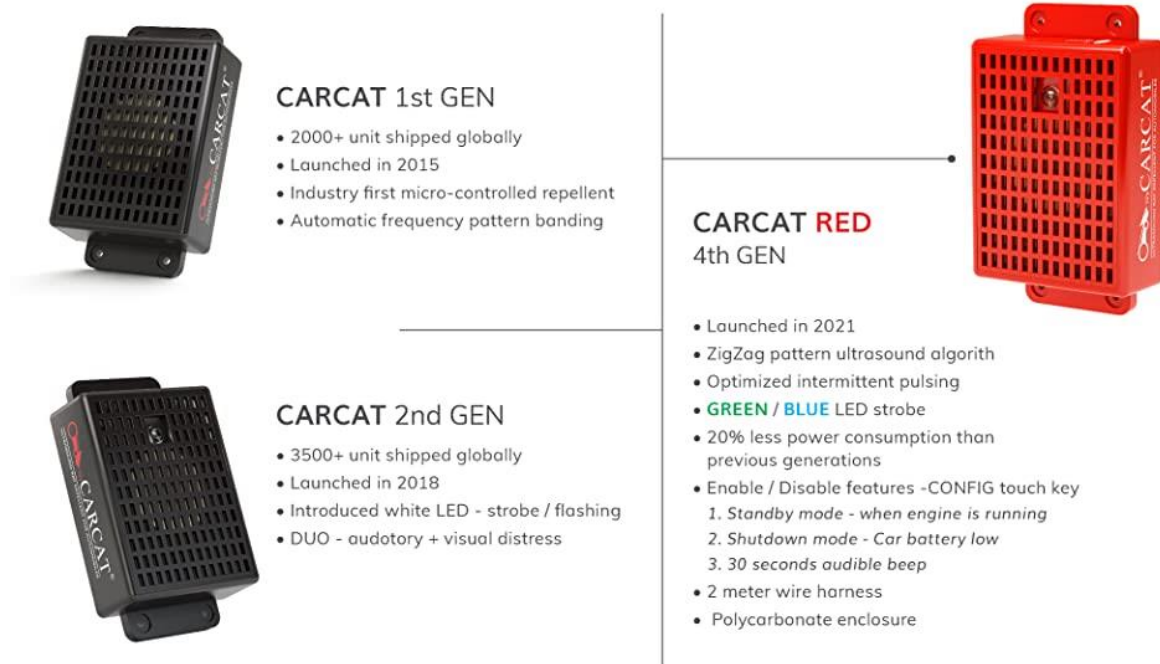


CARCAT-RED

New CAT on the block!



The CARCAT story

2015-> 1st Gen -> CARCAT Ultrasound rat repellent (Launch)

2018-> 2nd Gen -> CARCAT-Duo – Ultrasound + LED(White) strobe

2021-> 4th Gen -> CARCAT-RED – Rat repellent system - ZigZag Ultrasound +Blue/Green LED strobe

What happened to 3rd Gen CARCAT?

CARCAT -3rd Gen was planned to launch in quarter-1 of 2020. But corona happened. The lockdown gave us time to up our research & development cycle and double the upgrades.

This new cat on the block (4th Gen) has an all-round– Hardware + Firmware + Enclosure upgrade.

Back in 2015 we could have never imagined CARCAT would evolve from just a rat repellent into a more complex rat repellent 'system', which also safeguards and monitors the cars battery for optimum use.

This would not be possible without the support and feedback from our valued customers and CARCAT fans

It's tough to get rid of rats-

Research shows rats depending on their species, share around 92 to 95% of their working DNA with us, humans. They are very intelligent and extremely territorial animals. No wonder, rats are one of the toughest pests to get rid of.

Rats are one of the most resilient and under estimated creatures on earth. They were here long before any human species walked the earth and they will probably be around long after we are wiped out. No wonder- they are one of the hardest pests to get rid of. There is probably no 100% way to get rid of them, but with each new upgrade we use that understanding to try and reach closer.

Why do rats love your car's engine area?

Rats being nocturnal animals come out from their day dens (sewers & gutters) at night in search of food. Your vehicle's engine area is a safe 2nd home to take food stuff and eat in peace – away from cats / dogs. Post dinner they have a necessary teething need to sharpen the insides of their front incisor teeth. Failing which can be life threatening, cause their incisors grow at a rate of about 3 inches annually. The near endless supply of cables & wire under the hood ensures they have a juicy chew all night. Your car even has essential and clean water supply in the wiper spray ducts.

CARCAT-RED - 4th Generation

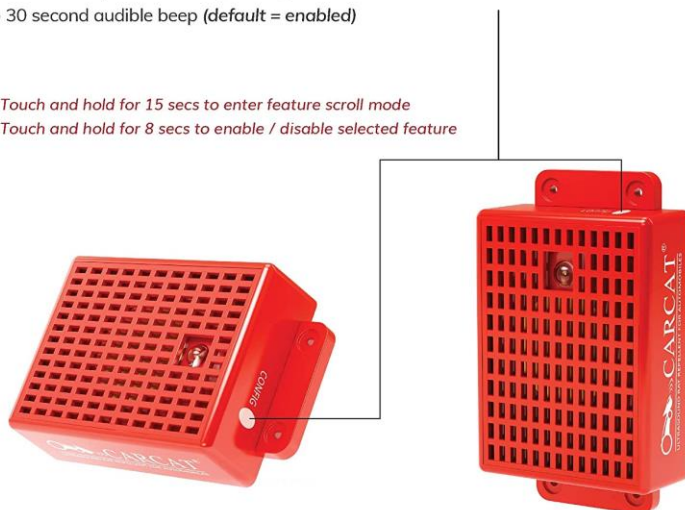
CARCAT-RED 4th Generation

Enable / disable below features with capacitive touch 'CONFIG' key -

- Auto cut-off when engine is running (works for both 12V and 24V system - *default = enabled*)
- Low battery (<10.5V for 12V and <21V for 24V system - *default = disabled*) shutdown – prevent battery damage
- 30 second audible beep (*default = enabled*)

**Touch and hold for 15 secs to enter feature scroll mode*

**Touch and hold for 8 secs to enable / disable selected feature*



What's New!

- ✓ **ZigZag** pattern ultrasound algorithm – Creates even more irritation and auditory distress to rats
- ✓ Optimized intermittent pulsing – 20% less power consumption than previous generations (without hampering efficacy)
- ✓ **Green/Blue** LED strobing – Maximizes rats dichromatic vision spectrum (They cannot see longer wavelength red light and is not used)
- ✓ Polycarbonate enclosure – Higher heat endurance under the hood - Fire retardant grade
- ✓ 2-meter wire - longer harness - Reaches further away from battery
- ✓ Enable / disable below features with config touch key -

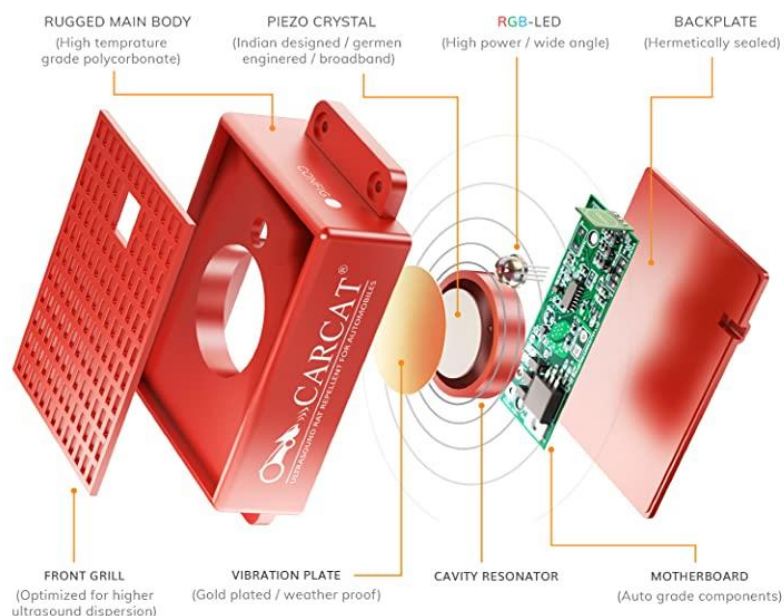
1. Standby mode - when engine is running (works for both 12V and 24V system, default=Enabled)
2. Shutdown mode - Car battery low(<10.5Volts @ 12V and 21V @ 24V system) – prevent battery damage (default=Disabled)
3. 30 second audible beep - some customers are sensitive to audible beep (default=Enabled)

Happy Customers-

With a efficacy of over 94% and 6000+ happy customers in India and globally, CARCAT comes 2nd to none, making it the most trusted method to safeguard wires and ducts under the hood of your vehicle from rats.

A simple installation and 24/7 protection from rats and rodents, makes CARCAT the preferred and automatic choice for rat protection in cars, trucks and other vehicles across India and the globe.

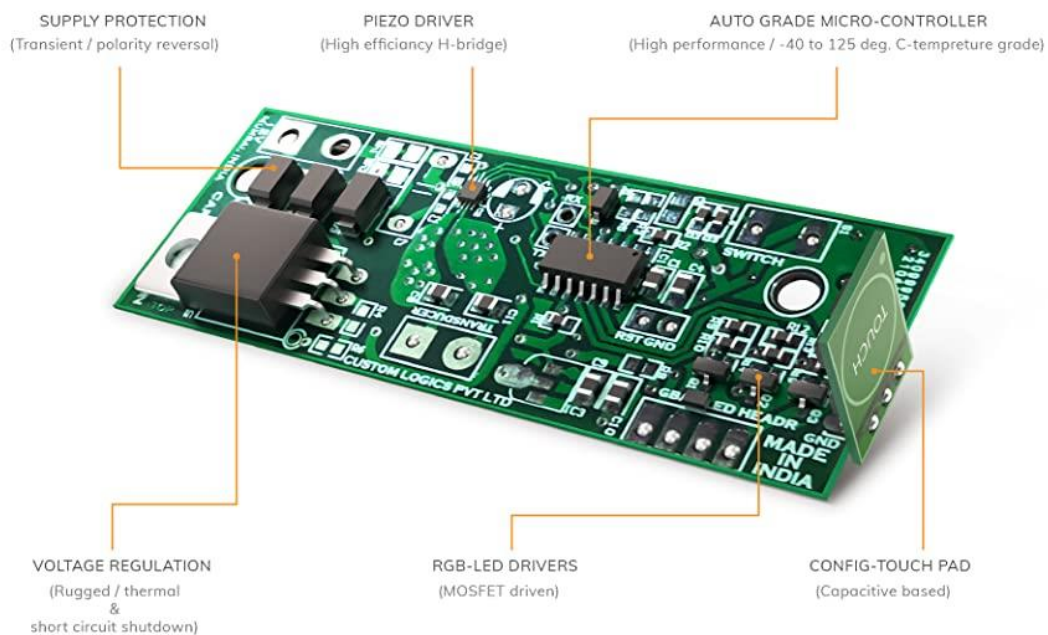
CARCAT-**RED**! Engine eered to keep rats away!



Built with the best design approaches and auto grade materials

- ✓ Heat and fire-resistant polycarbonate enclosure
- ✓ Indian designed, German engineered piezo-electric crystal
- ✓ Broadband ultrasound emitting crystal & cavity resonator
- ✓ Waterproof sealing

The brain & muscle powering CARCAT-RED



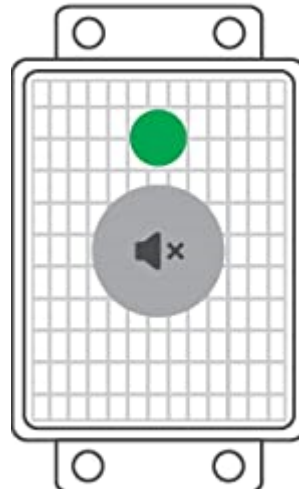
Rugged PCB design!

- ✓ Auto grade electronic components - withstand high temperature under the hood
- ✓ Built-in surge protection circuitry
- ✓ Low-power microcontroller
- ✓ High-efficiency crystal driver & RGB-LED drivers
- ✓ Fail-safes to ensure CARCAT-RED functions without a glitch

CARCAT-RED current status & mode-



Normal mode



STANDBY mode



SHUTDOWN mode

	Normal mode	STANDBY mode	SHUTDOWN mode
CARCAT-RED status	Active rat protection	Engine is running - standby mode	Car battery critically low
RGB-LED Indication	Blue/Green strobe	Solid GREEN	RED blinks every 2 sec
Ultrasound	ON (ZigZag)	OFF	OFF
Audible beep	ON (If enabled)	OFF	OFF
Default setting	Not applicable	Enabled	Disabled