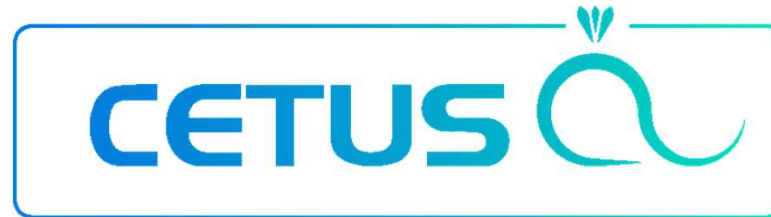




EXPO  
2020  
DUBAI  
UAE



## Covid Sanitizer for vehicles (taxis, ambulances, buses)



29th March 2022



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## Summary:

1. CF3000 Company Introduction
2. Covid-19 vehicle sanitation issue
3. Solution: CETUS device
4. How does it work?
5. Installation on vehicle
6. Maintenance
7. Demo video
8. Technical Specification
9. Installation time

# 1 - CF3000 Company Introd.

## 1. Domain areas

1. Cars
2. Motorbikes / 3 Wheelers
3. Truck & Bus
4. Electric Vehicles



## 2. Technical capabilities

1. E/E Engineering
2. E/E Components Supply
3. Vehicle Testing & Homologation



## 2 - Covid-19 sanitation issue

- ❑ Manual operations on VEHICLES (Taxi, Ambulance, Bus):
  - dangerous for humans (gloves needed)
  - time consuming (i.e. 45 min for ambulance)
  - hidden parts difficult to be reached (i.e. handles)



## 2 - Covid-19 sanitation issue

- ❑ Semi-automatic operations on VEHICLES (Taxi, Ambulance, Bus):
  - UV → sanitized surface limited (shadow zone not reached)
  - Ozone → plastic and electronic parts corrosion
  - Power supply → 220 V cord needed (injuries risk)



## CETUS: full-automatic sanitation of vehicles



A Reggio nasce Cetus, la balena per la sanificazione rapida dei taxi

24emilia.com • 2 min di lettura



## Micro-nebulizator



### ➤ Innovation in vehicle sanitation:

- fixed installation on vehicle
- ultrasound nebulization technology for the vehicle cabin sanitation
- contamination risk reduction
- safety of operators
- no need of external power supply

### ➤ Improvements compared to manual sanitation:

- no touch operation
- more sanitation cycles
- sanitation cycle time reduction (max 10 minutes)

## Patent pending

1. For public transport vehicles such as Taxi, Ambulance, Bus, Rent Cars
2. Italian patent n. 102020000019762, Deposit on 7th August 2020
3. International patent n. 812020000166666, Deposit on 1st October 2020



Progetto cofinanziato dal Fondo europeo di sviluppo regionale





# 4 - How does it work?

## Easy to use

1. Driver runs the vehicle with the device on board
2. At ignition key off the system starts automatically
3. Manual activation is also possible
4. After only 10 min the vehicle is sanitized without any driver intervention



## Mounting overview



## Easy power supply connection



## Quick snap mounting



Liquid refilling:  
required only after 200 cycles



Available medical liquid registered at the Italian Ministry of Health :

- Quaternary ammonium salts (didecyl-dimethylammonium chloride)
- Hydrogen peroxide with silver salts

The active principle is effective on enveloped viruses belonging to the coronaviridae viruses family



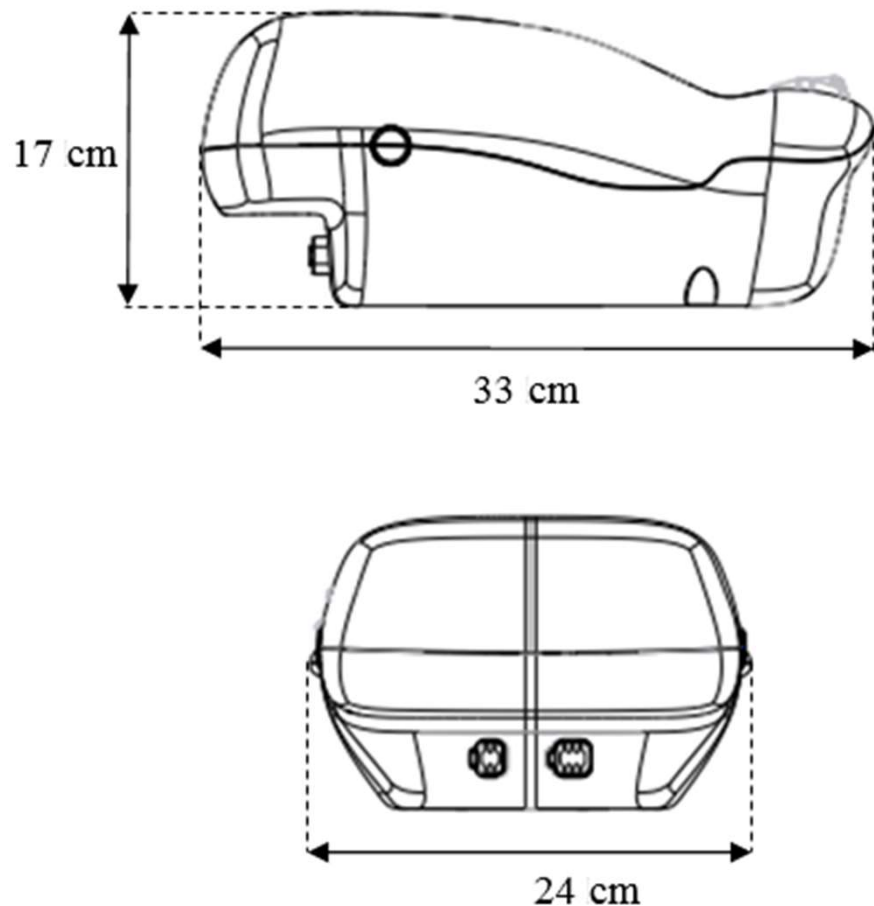
# 7 – Demo video

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[CETUS \(vimeo.com\)](#)



# 8 - Technical Specification



Characteristic	Unit	Value	Remarks
<b>Vehicles</b>		Taxis, Ambulances, Buses, RVs	
<b>Weight</b>	g	2750	
<b>Tank capacity</b>	L	1,4	
<b>Cycles with full tank</b>	n	200	
<b>Nominal Voltage</b>	V	12 or 24	DC
<b>Min-Max Voltage</b>	V	6 – 32	DC
<b>Dust Ingress Protection</b>		IP50	
<b>Short circuit protection</b>		Total	
<b>Electrical disturbance protection</b>	V	+37 to +50	
<b>Polarity inversion protection</b>	V	-28	
<b>Microprocessor</b>	bit	32	
<b>CAN interface</b>	kbps	500	3 CAN
<b>Activation</b>		CAN interface or pushbutton	
<b>Stand-by energy consumption</b>	mA	140	
<b>Sanitation energy consumption</b>	mA	930	
<b>Off-key energy consumption</b>	µA	10	
<b>Operating temperature</b>	° C	0 / +85	

## □ Installation time:

- 30 min (taxi with cigarette lighter socket)
- 60 min (with direct battery connection)



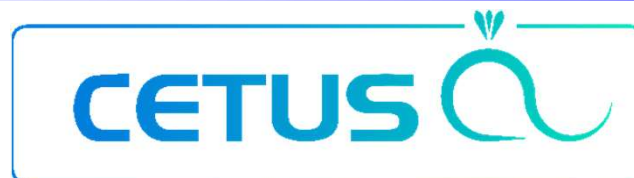
Administration Office (ITALY)



R&D - Vehicle test Lab (ITALY)



Customer Support Center (INDIA)



## Thank you

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