



**VENTUS**  
RESPIRATORY

 **THOMAS  
JACKS**

# TR2

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*All prices & specifications are subject to change without notice.*





# Protecting those who protect us.

Ventus Respiratory Technologies is leading a new standard for respiratory protection for law enforcement, armed forces, and first responders.







## Leading a new standard.

Contaminated particulate exposure can occur in multiple environments and occupations, particularly during complex operations and high-volume training.

Soldiers and law enforcement officers are generally issued gas masks but are not equipped with an effective low-burden particulate respirator.

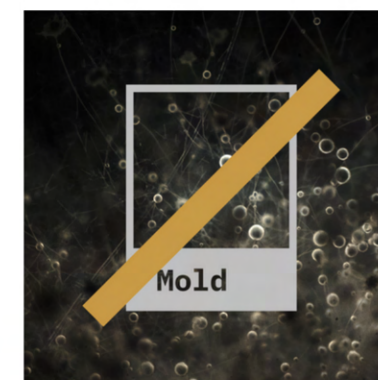
Ventus' TR2 Tactical Respirator is specifically designed for the unique situations where gas masks are encumbering and are not a mission fit.





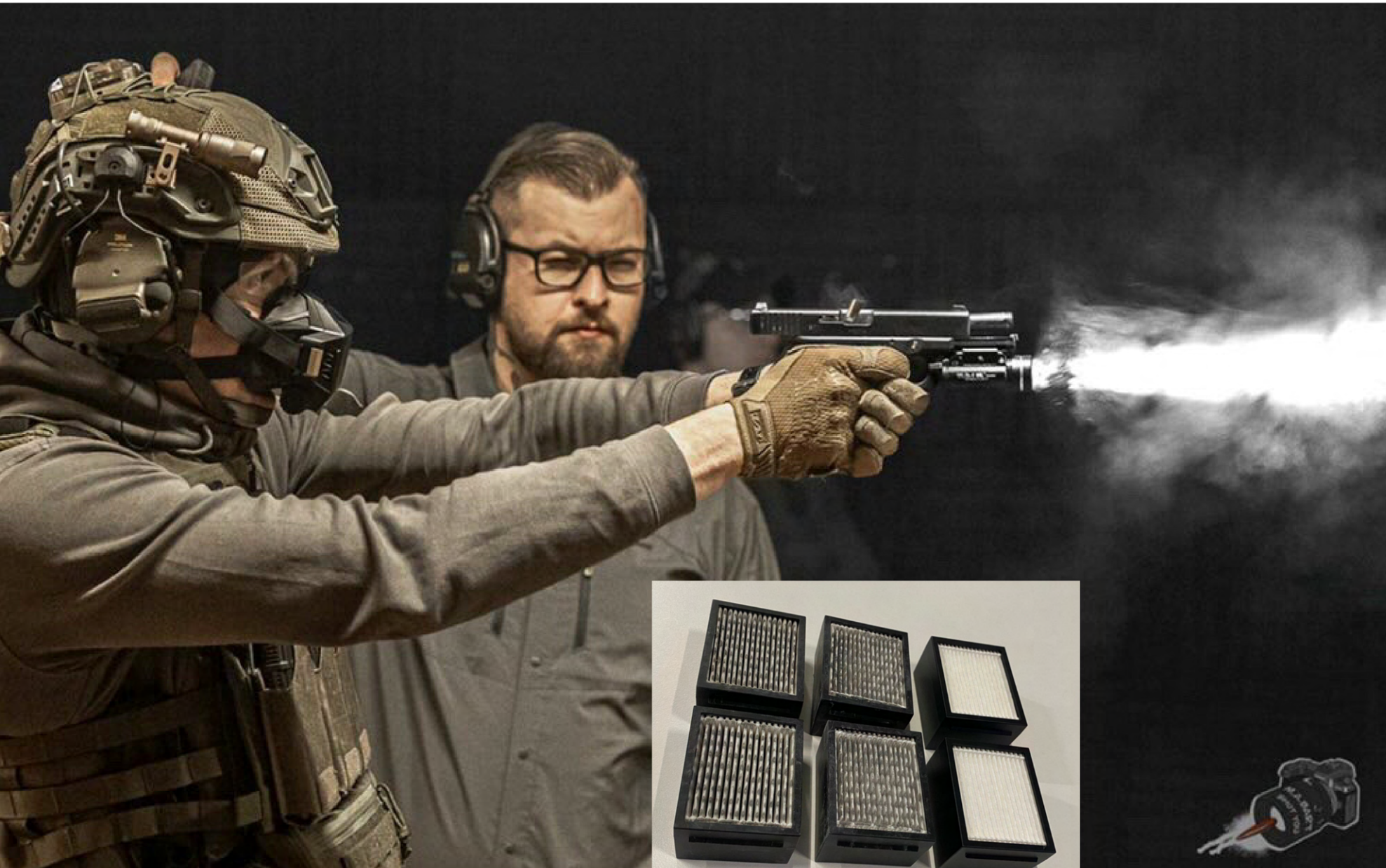
# The result of research.

The TR2 was born from the needs of end users and designed together with operators and technology leaders to meet and exceed crucial requirements. It was developed through years of testing on live ranges, air pollution laboratories, and by engaging the medical community to understand the causes of respiratory illness.



\*DATA EXTRACTED FROM FIVE TR2 FILTERS USED DURING A WEEK OF BREACHING AND SWAT TRAINING





# Key applications.

Law enforcement, armed forces and first responders encounter regular scenarios where proper respiratory protection can provide a critical layer of safety.

- Breaching and Explosive Force Entry (EFE)
- Close Quarter Battle (CQB) Ranges
- Drug interdictions
- Operating in known or unknown toxic environments - derelict infrastructure, industrial complexes, contraband production facilities
- Responding to Structural fires and/or Industrial accident

**HAZARDS**

Aerosolized lead  
Mold  
Concrete dust  
Lead paint dust  
Asbestos  
Frangible Ammo  
Airborne Hazards

**HEALTH RISKS**

Lead Poisoning    Kidney failure  
Silicosis            Neurotoxicity  
Lung cancer        Anemia  
Seizures             Nerve damage  
Infertility            COPD  
Acute Asthma        Impotence

Filters from 1 day of EFE Training - SWAT





# TR2 features.

## **No eyewear interference**

Integrates with all common ballistic eyewear. Exhalation valve directs air down and out, eliminating eyewear fogging

## **Flex to fit universal seal**

Extensive user testing enabled us to build a mask that will fit most face sizes and shapes.

## **Durable design**

Built to withstand the demands of the most extreme environments.

## **Interchangeable strap platform**

Allows for the TR2 to be worn with or without helmet.

## **Central exhalation valve**

High volume, low burden air exhalation.

## **Communications platform**

Milspec dynamic microphone can be mounted on both right and left orientation.



# Performance & specs.

TR2 Tactical Respirator is made of polycarbonate plastic and silicone with a TPU coated webbing and elastic head strap. Includes filter made of non-woven electrostatic HEPA filter. All items are packaged in nylon MOLLE pouch.

<b>WEIGHT</b>	150 grams / 0.33lbs (incl. filter & Strap)
<b>BERRY COMPLIANCE</b>	Berry compliant TR2 with made in USA straps and pouch available
<b>FIT</b>	93.7% of users passed fit factor testing (NIOSH bivariate face panel)
	Quarter face gasket sits above chin to avoid chinstrap interference
	Single size (one size fits most)
<b>BREATHABILITY</b>	13.7mmH <sub>2</sub> O inhalation resistance (average initial resistance @ 95 lpm)
	Replaceable exhalation valve
<b>COMMUNICATIONS</b>	Mic and Cable made in USA
	Batteries not required
	IP67 rated (against dust and water ingress)
	Connection via standard Nexus 2-Pin
<b>FILTRATION</b>	Nominal 150-Ohm impedance at 1KHz
	97% of solid particles down to 0.75um (85 LPM, CMD 75nm +/- 20nm, GSD 1.86)
	Tool-less filter replacement
<b>MATERIALS</b>	Filter made in USA
	Medical-grade silicone and Polycarbonate plastics meets or exceeds biocompatibility criteria for ISO 10993-5: 2009



# Built by end users for end users.

Ventus Respiratory Technologies is Veteran-run and owned. We are end users.

We are addressing the current gap in respiratory protection for law enforcement, armed forces, and first responders.







# Communications

The TR2 mic accessory delivers clear communications free of acoustic interference such as breathing and wind shear. The IP67-rated microphone delivers rugged, low-profile communications with left or right installation options.

Tier 1 operators endorse our platform as a preferred standard with unparalleled clarity during breaching and training exercises.

## COMPATIBLE WITH EAR PROTECTION SYSTEMS AND PUSH-TO-TALK RADIOS

Peltor 2-pin  
OTTO 2-pin  
Ops Core 2-pin  
Other systems with 2-pin Nexus adaptors

## Strap systems.

Built to protect operators regardless of the training demands. Ventus offers multiple strap solutions to ensure the TR2 integrates into any kit.

- Head strap for range days or clean up, when not wearing full gear.
- Helmet straps for training and operations that require a bump or ballistic helmet.

Strategically placed flex zones allow for natural head movement while maintaining pressure for the perfect seal.







TR2 RESPIRATOR



MIC & CABLE



HELMET STRAP



FILTERS 3-PACK



REPLACEMENT FRONT COVER



REPLACEMENT SMALL STRAP

# TR2 Tactical Respirator & accessories.



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