



# Case Study: GORE® Pressure Vents Ensure Peak Performance in Extreme Conditions

## Reliable Performance for an Adventurous Lifestyle

### ? CHALLENGE

Faster, higher, stronger: Extreme sports enthusiasts love to push their boundaries, and many of them want to show the world what they can do. A **renowned brand for panoramic cameras took this opportunity to further explore the growing market** of action devices, developing robust sport cameras designed to **withstand any condition**. However, designing a camera that can be taken everywhere means considering not only the robustness of the device but also its size – making the list of requirements quite challenging:

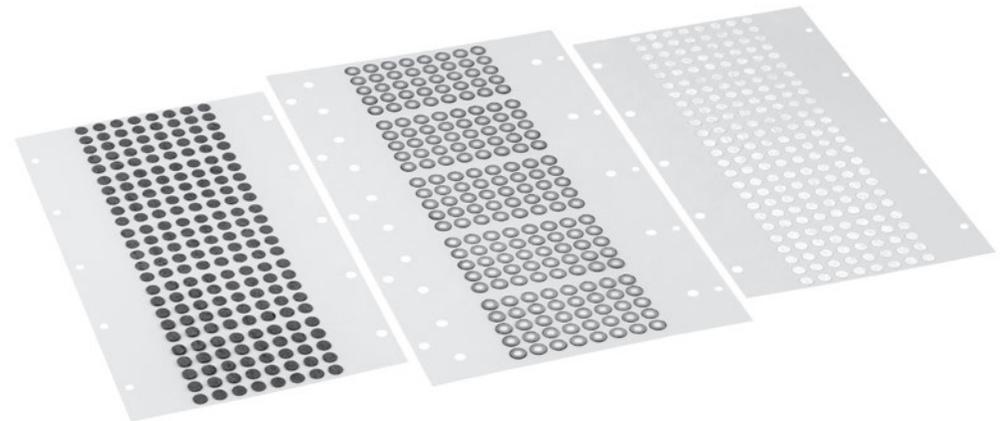
- Handling extreme changes in temperature and altitude
- Withstanding water and particle exposure
- Providing stable quality
- Enabling a compact design while maintaining optimum performance

In order to meet all their goals, our customer sought a partner who shared their **aspiration for stable quality and performance**. With Gore, they have discovered a partner who aligns with their mindset and continues to push the boundaries of what is possible.

“Our customer is synonymous with resilience, and so is Gore – it’s a perfect match. As they market their products on robustness, it was imperative for our customer to incorporate components just as sturdy. They knew Gore would be able to provide a solution that would meet all requirements.”



**Eric Chu, Sales Associate**





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### SOLUTION

As the device would be exposed to extreme conditions, the Gore engineers proposed a GORE® Vent Solution with **optimum airflow capabilities** to quickly handle pressure differentials caused by altitude changes. Additionally, this innovative vent offers enhanced waterproofing properties, ensuring the device's suitability for water activities such as diving, surfing, or similar pursuits. Our team then **customized the solution to our customer's needs** to fit into the camera's compact design.

Despite the ongoing pandemic, we extended our support to the ODM's manufacturing site once the solution was ready for assembly. The Gore team on site helped our customer **solve all issues that arose during installation**, including flaws impacting the device's acoustic quality.

In the end, we presented a solution that met all of our customers' requirements: maximum design flexibility, airflow efficiency, and ingress protection.

"The customer shared their ideas on the design and on how everything could fit in the internal space, and we adjusted our vent accordingly."



**Pharos Fang, Application Engineer**

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#### THE TECHNOLOGIES BEHIND THE SOLUTION: GORE® PRESSURE VENTS

Temperature and altitude variations create internal pressure differentials in devices. To protect the integrity of seals and gaskets, rapid air evacuation is essential. **GORE® Pressure Vents** are expertly crafted to allow substantial airflow, ensuring optimal pressure balance as well as excellent water resistance. For specifications and detailed information on installation, please visit [gore.com/pressure-vents](https://gore.com/pressure-vents).

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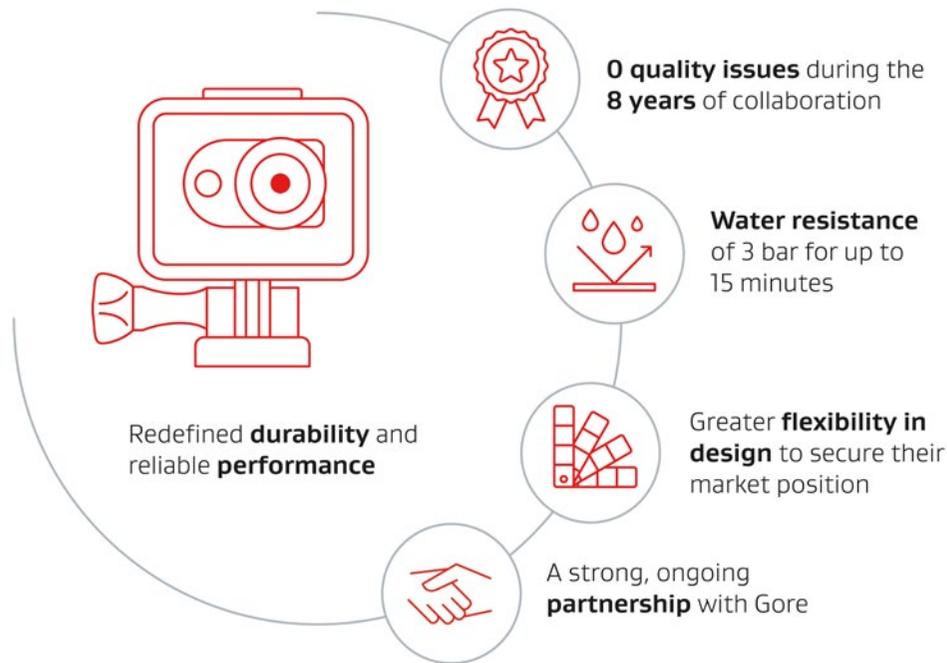


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### ★ RESULTS

With GORE® Pressure Vents, our customer was able to enhance their position in the growing market while also designing a camera that guarantees consistent performance in all conditions. Here is what our customer gained from leveraging Gore's vent:



"Our customer has trusted Gore's quality since the first generation of their camera series. Their satisfaction with the consistent performance and quality of our products remain unmatched."



Eric Chu, Sales Associate

#### WANT TO KNOW MORE?

To learn more, visit our website: [gore.com/portableelectronics](https://gore.com/portableelectronics)

Or check out more of our case studies: [gore.com/mestories](https://gore.com/mestories)



# Why Choose GORE® Portable Electronic Vents for Your Electronic Devices?

Leading OEMs have purchased over 10 billion GORE® Portable Electronic Vents because they know our products and services can help accelerate their development of innovative and differentiated devices in fast-paced, highly competitive markets.

## PRODUCT AND APPLICATION LEADERSHIP

Grounded in a deep understanding of material science and acoustics, Gore can provide the optimum venting solution. We balance trade-offs between diverse problems such as adverse operating environments, immersion events and acoustic performance.

## RELIABLE PERFORMANCE

To ensure products are “fit for use”, every Gore product must adhere to the highest standards of quality, performance and reliability. Through a comprehensive understanding of end-use applications and requirements, our products do what they say they will do.

## FAST DEVELOPMENT

The mobile electronics industry develops and releases new products quickly. Our fast response to customer requests during the development process sets us apart. Gore supports this need for quickness with designs and prototypes to ensure engineering teams can meet their project timelines and their application requirements.

## SUPPLY SECURITY

Leading OEMs specify Gore because we have consistently proven our ability to quickly ramp up to supply vents for projects of over 10 million devices per year and to continue to supply high quality products on-time without disruption.

## MATERIAL SCIENCE

Gore is a global materials science company dedicated to transforming industries and improving lives. Gore develops materials with microporous structures that provide desirable attributes and performance characteristics to engineer vents and other products used in a variety of markets and industries.

## GLOBAL SUPPORT

Our global teams of sales associates, application engineers, manufacturing engineers, and research personnel enable us to provide agile and robust support to customers around the world.

## Interested in Testing Our Products or Talking to Our Experts?

For additional assistance, please contact a Gore representative.

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