

# Extreme in Action: EX14 Camera Survives Arctic Elements



**BOSCH**

Invented for life



**“The equipment has been performing very well – the camera is the same one that we installed in December 2005. If only all our other equipment on Erebus worked this well!”**

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Volcanologist, Geochronologist, New Mexico Geochronology Research  
Laboratory

**Project:** Mount Erebus Antarctic  
Volcano Crater  
**Sector:** Extreme Locations  
**Product:** EX14 Extreme Environment  
Camera

## Mount Erebus is the Ultimate Proving Ground

The EX14 Extreme Environment Camera is an integral part of the permanent recording equipment at the edge of the Mount Erebus crater – Antarctica’s most active volcano. The camera is currently recording passive convection of the volcano’s lava lake and is ready to capture video of the next transition to explosive activity expected soon. Conditions on Mount Erebus are as extreme as they get – with winter temperatures below -67 degrees Fahrenheit, icy and stormy weather, and corrosive gases produced by volcanic activity.

## Problem: Capturing Volcanic Activity in Extreme Conditions

- Surveillance equipment must survive extremely cold temperatures and corrosive gases
- Remote location means camera must operate reliably for long periods without human intervention

## Solution: EX14 withstands Arctic Blasts and Volcanic Gases

- Injection-molded nylon construction is IP67, NEMA 6 and 6P rated to withstand corrosive and cold environments – from -76° F to +140° F (-60° C to +60° C)
- Insulated inner chamber eliminates the need for internal heaters and blowers
- High-resolution imaging – up to 540 TVL – enables effective monitoring

## Results: Reliable Operation for Continuous Observation

- Camera has captured video of volcanic activity from the rim of the Mount Erebus Crater for nearly five years without fail
- Withstanding temperatures below -67° F, icy and stormy weather, and corrosive gases, the camera is ready to catch the next transition to explosive activity



Mount Erebus Volcano in Antarctica provides the ultimate proving ground for the EX14 Extreme Environment Camera.

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