Intermittent temperature

Security cameras and products are used all over the world. They are exposed to great variations in temperature – from the searing heat of the Middle East to the icy cold of Alaska. In addition, cameras are often mounted on top of poles or buildings, exposing them to strong winds and sunlight. Consequently, temperature resistance is a critical aspect of any security camera or product.

Operating temperature range and maximum intermittent temperature

Ensuring that the cameras work reliably in extreme climate conditions is a critical issue during Axis' surveillance camera design and production. Datasheets specify both an operating temperature range and a maximum intermittent temperature.

The *operating temperature range* defines the upper and lower limits for the constant temperature surrounding the camera.

The *intermittent temperature* is the highest temperature that an outdoor camera may be exposed to for a limited period of time.

Example from an Axis datasheet:
Operating temperature: -50 °C to 50 °C (-58 °F to 122 °F)
Maximum temperature (intermittent): 60 °C (140 °F)

Extensive climate testing

To ensure that all products fulfill the defined values, extensive climate testing is performed in both labs and at live installations. Long-term tests at live installations where Axis' products are subjected to extreme temperature and climate conditions are performed in Sweden, Russia and the Middle East.

In a real outdoor environment, the temperature surrounding the product will not be constant since the weather conditions varies during the day. The intermittent temperature specification considers cases where extreme temperature conditions may occur for short periods of time when the temperature and heating effects from solar radiation is high.

Axis' testing ensures that the products will be able to withstand intermittent temperatures without any disruption or diminished quality.

Visit axis.com/quality for information about Axis' extensive quality testing.

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