



Improve  
Reliability



Reduce  
Costs



Positive Public  
Perception

## WATER INTRUSION INSPECTIONS

### QUICKLY FIND AUTOMOTIVE WATER LEAKS WITH THERMAL CAMERAS AND MOISTURE METERS

#### THE CUSTOMER'S CHALLENGE

Manufacturers work hard to ensure that automobiles can withstand any weather condition. But water can penetrate even the smallest gap or seam in automotive weather seals that are meant to keep moisture out. Water intrusion and leaks can be difficult to detect, as they are not always visible. Large leaks that drip and pool are clearly BIG issues, but what about small leaks that can be an annoyance and create issues over time?

#### A SOLUTION

Thermal imaging cameras have been used for years in the building diagnostic and restoration industry to help find water leaks, and similar methods can be used by automotive manufacturers. Since the physics of evaporative cooling are the same, infrared cameras and moisture meters can be used to detect water leaks inside automobile cabins and other areas protected by weather seals. Once a leak is detected, a moisture meter or psychrometer, such as the FLIR MR77, can be used to measure the level of moisture content in the fabrics and air to determine acceptable comfort levels. For additional inspection and potential corrective actions, a borescope, such as the Extech BR250, will aid in pinpointing the exact location and potential reason for the leakage.

#### THE RESULTS

FLIR technology allows manufacturers and repair technicians to quickly and easily identify the source of small water leaks and prevent them from becoming bigger problems later. This helps ensure customer comfort and satisfaction.

For more information about FLIR in manufacturing or to schedule a product demonstration visit:

[www.flir.com/manufacturing/process-monitoring](http://www.flir.com/manufacturing/process-monitoring)

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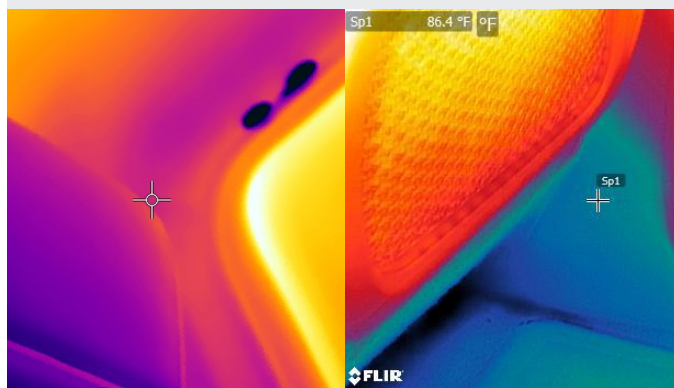
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*Water can penetrate even tiny gaps or seams in automotive weather seals, so it's important to find small leaks before they create bigger issues.*



*Collected moisture can be seen and measured using thermal imaging cameras and moisture meters. Engineers can use these tools together to check for water leaks inside automobile cabins and other areas protected by weather seals.*



FLIR MR77

Extech BR250

