



Will the Reinforced Grill Affect Measurement?

You are correct when you state that the grill will affect your measurements. In fact, all Infrared Window lenses regardless of the manufacturer affect the transmission rate of the target temperature. Regardless of the type of IR window you are using, you need to test and adjust your IR camera for the transmissivity of the lens material you are using. This value can vary by camera even if it is the same make and model of camera. This is due to differences of the detectors in the IR cameras.

The primary functions of the grill are for:

1. Impact resistance (IEEE C37 mandates this requirement)
2. IP2X fail safe product. If the lens were damaged, the largest hole would be less than ½ inch, unlike a crystal which would be 2, 3 or 4 inches depending on the window used and this would invalidate the safety of the switchgear.

Inspecting through grills is a standard practice for thermographers. Sometimes the only way we can see the targets inside transformers and panels is to view through a grid. The IRISS VP Series and CAP Series lenses are just an extension of this standard practice. More importantly, the IRISS VP Series and CAP Series lens transmission does not change, unlike most crystals which change with the ingress of water, acids and alkalis, high frequency noise, vibration, and target temperature.

All the IRISS Infrared windows have an Unconditional Lifetime Warranty. IRISS manufactures the only IR Window system in the world that can offer this.