One of way to SF6 gas leakage detection in substation is a reliable infrared camera with SF6 gas detection for spotting possible leakage during day-to-day maintenance rounds. These new infrared cameras combines a high-performance thermal imager with a dependable pistol grip form factor, and SF6 gas detection.

**These devices have benefits to other way as below:**

- Allow maintenance to be scheduled at a convenient time without any unplanned downtime
- Reduce the potential equipment damage and cost associated with these leaks.
- Check for leaks from a safe distance while the equipment is running.
- Locate leaks in equipment overhead or off the ground.

**When using this device, observe the following:**

source: [https://switchgearcontent.com](https://switchgearcontent.com)
- Avoid rainy/windy days—under these conditions gas dissipates too fast unless a massive leak is present.
- Gas needs to be a different temperature than your background to see you need a thermal contrast.
- Use a tripod to stabilize the camera during inspection.
- Place the camera 3-4 m from the target.
- Common leak locations are flanges, top and base of bushings, tubes.