

Subject: IR Reflection Issues

Day & Night CCTV cameras equipped with built-in Infrared illumination have their own unique set of problems to overcome. The infrared light source is inside the same clear plastic dome that houses the camera lens and electronics; this means that without taking corrective measures the plastic dome would reflect light back into the camera lens. To address the problem there is a sealing ring that fits between the camera lens and the inside of the clear dome. If not fitted properly the infrared light will reflect back into the camera lens. Symptoms to look out for are a blurry fog over all or part of the image.

Common causes:

- The dome cover is not bolted in tight enough.



- The rubber or plastic seal between the lens and the dome cover is missing or not flush against the clear dome cover.



- The Lens is exceeding the recommended tilt causing the IRs to hit the lens cover (see user manual for tilt)



Other causes:

- Accumulated dust, snow or raindrops will reflect infrared, causing a blurred, foggy ring in the image



- A reflective surface near the security camera that is reflecting the IR light back into the camera.
Ex: Day shot (reflective object)



Ex: Night shot with glare from object



Ex: Image improved after repositioning the camera.

