



KUBE PIR Fresnel Lens Design and Prototyping Services

Fresnel lenses (arrays) for PIR motion detectors such as intruder alarms, automatic light switches and people detectors

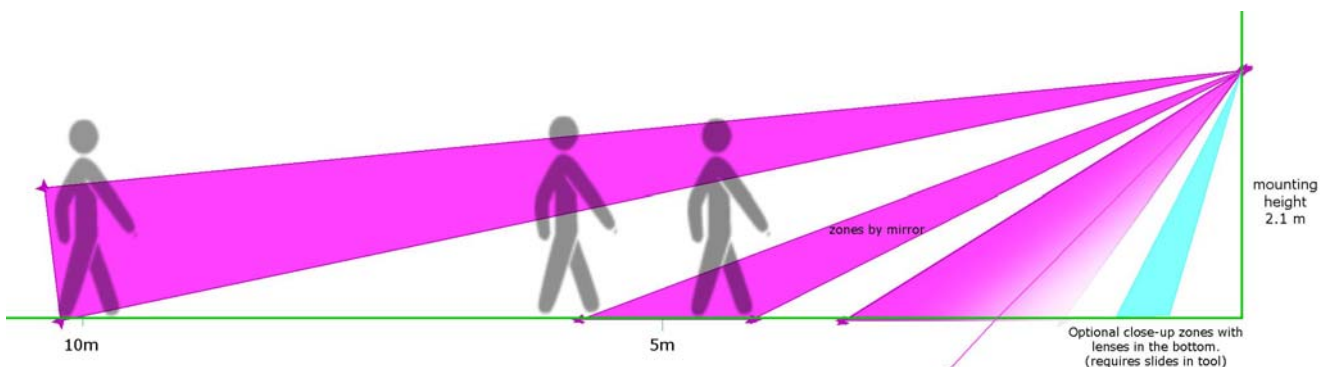
Services available:

- Flat or 3-D Fresnel lenses with up to 40 segments
- Wall mounted, ceiling mounted, "pet-immune" and any custom design
- Fresnel lenses for instrumentation, non-contact thermometers, etc.



Hot press to make prototype fresnel lenses

Step 1: Definition of the required field of view (zone pattern)



Step 2: Production of prototype lenses

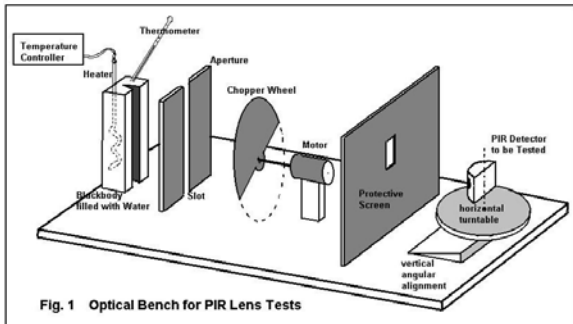
10 pcs of any flat fresnel lens with up to 40 segments can be produced quickly and economically

This is most important to speed up "time to market" and reduce risks of tooling

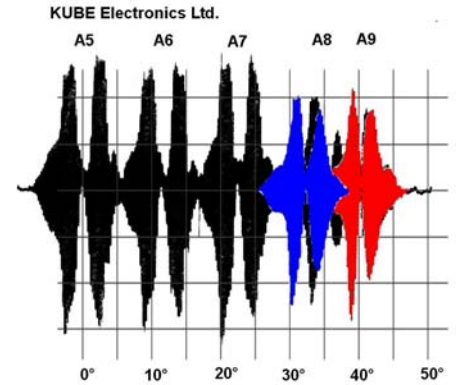




Step 3: Test and performance verification



The prototypes are tested on our optical bench. If required, changes can still be made at this point

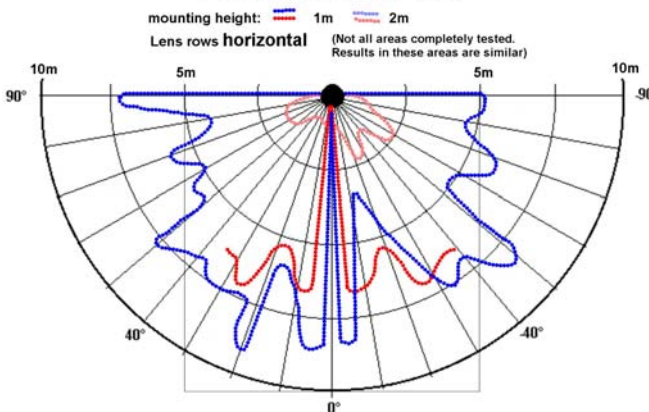


Step 4: Production of the tool

Precision injection molding tools are fabricated within 8-12 weeks. Our tools have a lifetime of over 500'000 Fresnel lenses



PIR Device Walk Test



Step 5: Final test of production fresnel lenses

The ultimate proof of performance of a motion detector is still a walk-test. KUBE performs such tests under standardized conditions with a high degree of repeatability

Step 6: Production

KUBE delivers any quantity and just in time to any place on this world. KUBE fresnel lenses are 100% inspected



Please contact us for a quotation for your own lens