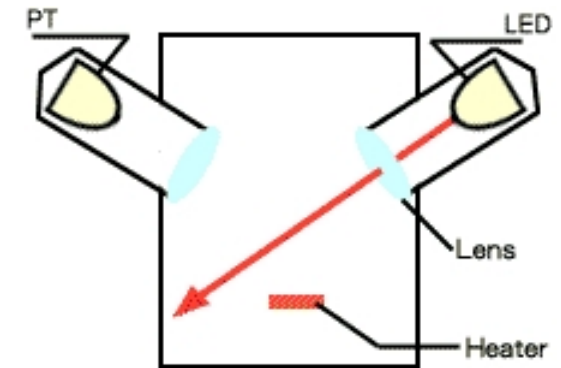
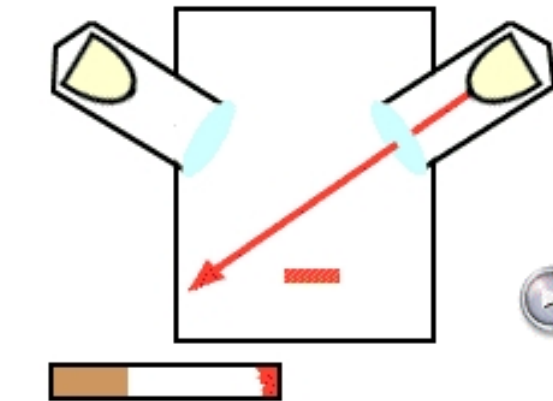


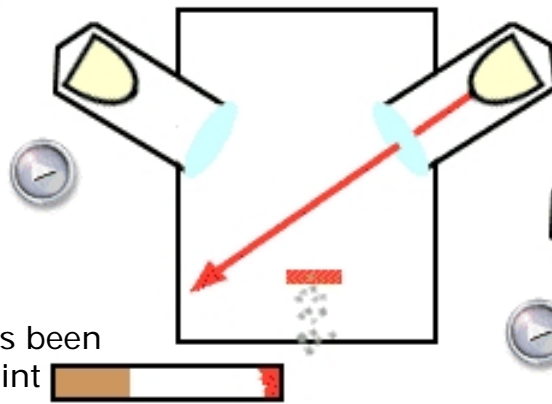
How It Works



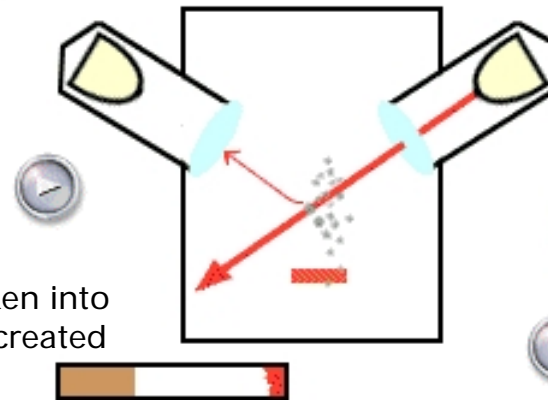
Light emitter : LED
 Light receptor : Photo Transistor
 Lens : both for emitter and receptor
 Heater : Resistor to generate "Updraft"



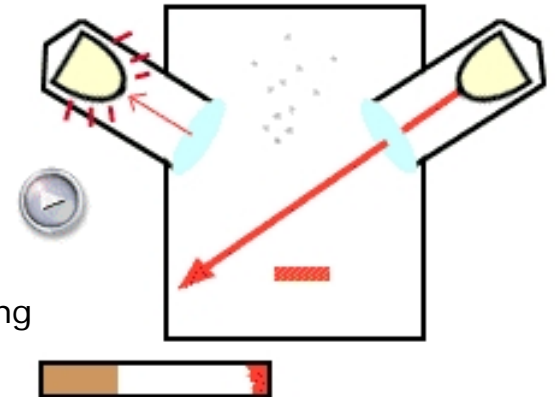
Resistor generating updraft.
 Infrared light beam from LED has been
 focused with Lens to sensing point
 at the center.



Airborne particles have been taken into
 the sensor box with the updraft created
 by resistor's heat.



Particle passing through sensing
 point scatters light.



Receptor (Photo transistor) receive scattered
 light through the lens and transformed
 into pulse signal. Pulse signal are to be
 converted into voltage output.

PPD Detection Range

SIZE OF HARMFUL AIRBORNE PARTICLES

