



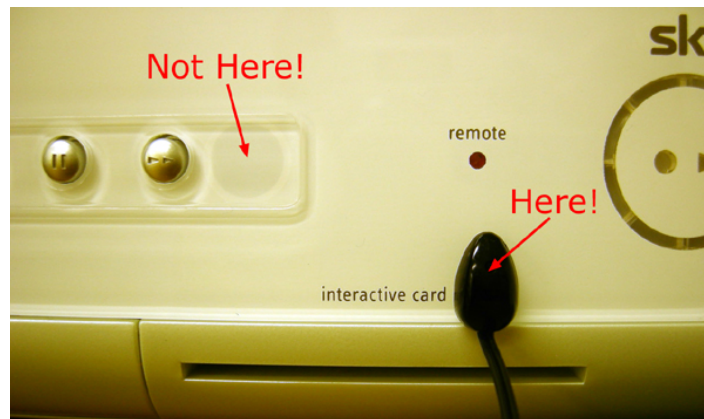
### BMB Application Advisory 20 – Placing a IR emitter

Sat and Cable boxes, together a number of other A/V devices are know to have very sensitive IR sensors.

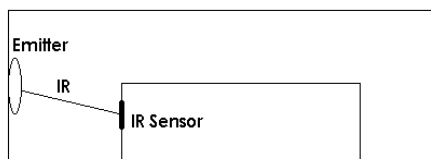
When placing a emitter directly on top of the IR window this will overload the box IR sensor with IR light in most cases.

The prevent this, multiple solutions are possible:

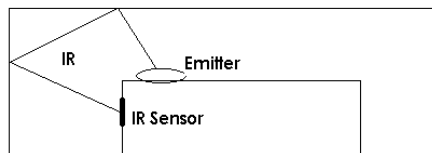
- Move the IR emitter along over the surface to the box while sending IR commands, to see what the best position is. Ofter this is slightly next to the IR window, as can be seen in the picture of the SKY+ box below:



- When this has no success, try to use a so called 'blink' emitter. These emitter have a LED that tells you when IR is send out, because of this LED, the IR coming out is slightly less powerful.
- Place the IR emitter on the inside of the cabinet door and use indirect IR. NOTE, you would need a 'blink' emitter to be able to do this.



- Place the IR emitter on top of the box, and reflect the IR signal via the e.g. a shelf to the box.



- When using URC base stations, like e.g. the MRF-260 or MRF-350, you can adjust the IR gain per emitter output using a potentiometer on top of the MRF device. Turn the meter from fully up to fully closed while sending IR commands to see what gives the best result.