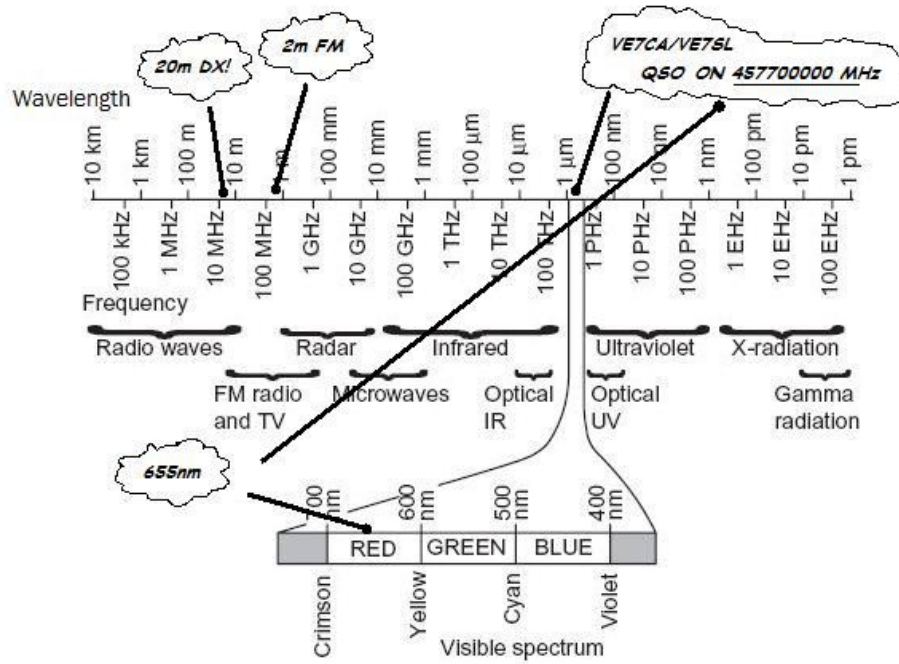
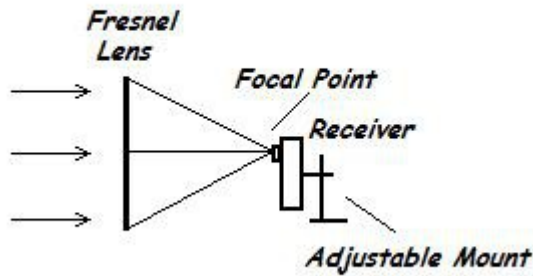


The VE7 Light Wave Project

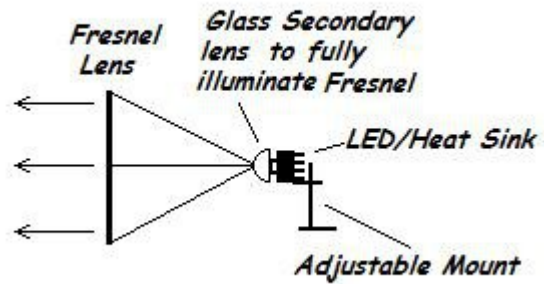
Frequency?



RECEIVER



TRANSMITTER





The LED is a Luxeon Red Rebel mounted on a 'Star' base and then on to a small heatsink. The LED operates @ 700ma for ~ 1.5W input. The receiver's PIN Photodiode is BPW34 (about 3mm square) that is spec'd for 430-1100nm. At 655nm, it performs at 60% efficiency compared to 1100nm so our system should work even better in IR but will make aiming more difficult.

Want to Learn More?

To see a short cell phone video made by Markus from his Cypress Bowl location go here:

<http://www.youtube.com/watch?v=hZruSVnC-xU> or...go to YouTube and search for 'VE7SL LW'

Here is a short recording of VE7CA's beacon signal when first heard on Mayne Island:

<http://members.shaw.ca/skcraig/bcn1.mp3>

Here is a recording of VE7CA sending light wave CW signal report as heard on Mayne Island:

<http://members.shaw.ca/skcraig/rst.mp3>

Probably the best information on Light Wave DX work can be found at Clint Turner's (KA7OEI) website:

http://modulatedlight.org/optical_comms/optical_index.html

Another great source of information is the "UK Nanowave Group (Yahoo)". It is worth joining this group just to download the four "*Adventures In Optical Communications*" Radcom articles...or...send e-mail to: VE7SL@shaw.ca and I can forward a set of them to you.

<http://groups.yahoo.com/neo/groups/UKNanowaves/info>