

R Calculation:

$$R = \frac{\log\left(\frac{\text{Red}_{\text{rms}}}{\text{Red}_{\text{DC}}}\right)}{\log\left(\frac{I_{R_{\text{RMS}}}}{I_{R_{\text{DC}}}}\right)}$$

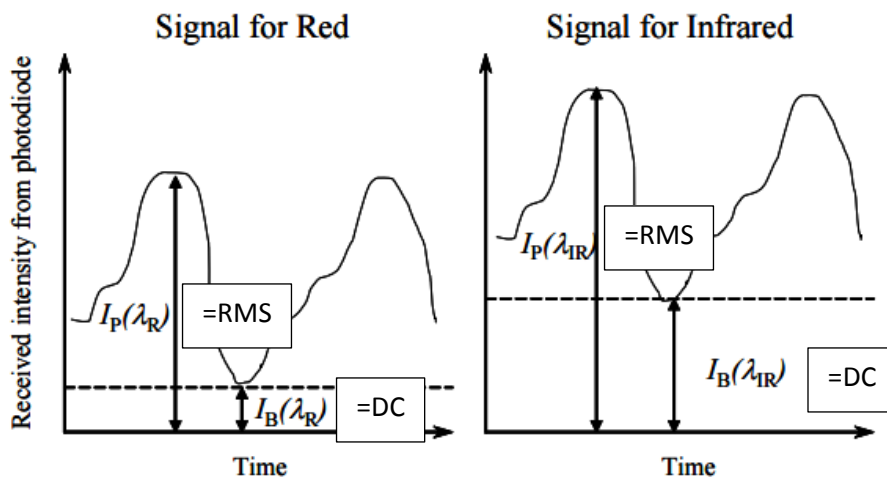


Figure 2 - Received Photodetector Signals

<http://www.imt.liu.se/FoUtb/kurser/oxikurs/restricted/pulseoximetersequationsandtheory-stephenkennedy.pdf>