

**PIENAAR ENERGY (PTY) LTD**

# Near infrared frequency



## Near infrared frequency

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### What is the Near-Infrared Band?

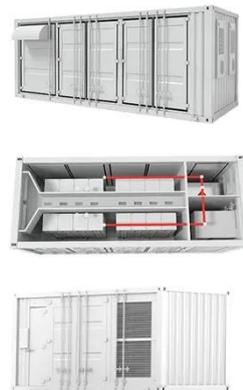
The Near Infrared band of the electromagnetic spectrum has wavelength range from 750 to 2500 nm. It has a frequency range from about 215 THz to 400 THz and lies close to the red end of ...

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### Near, Mid and Far-Infrared

Near-infrared observations have been made from ground based observatories since the 1960's. They are done in much the same way as visible light observations for wavelengths less than 1 micron, but ...



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### Review of recent advances in frequency-domain near-infrared

Another type of NIRS known as frequency-domain NIRS (FD-NIRS) has significant advantages: it can directly measure optical pathlength and thus quantify the scattering and absorption coefficients of ...

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## Understanding Infrared Spectrum Frequencies

Explore the fundamentals of infrared spectrum frequencies, from near to mid and far-infrared regions. Learn how NLIR powers real-time MIR analysis!

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## IR Spectrum Basics and Infrared Communication Frequencies

Its frequency range extends from 430 THz to 300 GHz. The IR spectrum is further subdivided into near-infrared (120THz-400THz), mid-infrared (30THz-120THz), and far-infrared (300GHz-30THz) bands.

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## Near Infrared

The region of the near infrared spectrum extends from about 700 nm (14,000 cm<sup>-1</sup>) near the end of the visible region, to 2500 nm (4,000 cm<sup>-1</sup>), which is the beginning of the infrared fundamental region.

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## What Is Near-Infrared Light? What Is It Used For?

Obtaining an accurate reading of near-



infrared light can be done by examining the absorption bands in nanometers (nm). The range of these bands extends from 700 to 2,500 nm, ...

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## What Is Near-Infrared Light and Its Applications?

Near-infrared light (NIR) is a part of the electromagnetic spectrum that remains invisible to the human eye. Despite its unseen nature, this form of light is a constant presence in our daily lives, ...

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## What is Infrared Light: Dive Into the 3 Levels - AMMD

Infrared radiation, present in three levels--near (NIR), mid (MIR), and far (FIR) infrared, is defined by its different wavelengths. More importantly, each level has its own distinct ...

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## What Is Near-Infrared Light? What Is It Used For?

How Does It Work?What Are The Other Types of Infrared Light?Where Is It used?James Webb TelescopeAdvantages

of Near-Infrared Light  
Disadvantages of Near-Infrared Light  
Frequently Asked Questions on Near-Infrared Light  
Conclusion  
Is Near-Infrared Light Good for You?  
NIR can be a good option for many medical treatments. It may help with skin diseases or heart health due to its characteristics of raising heart rate and circulation. But do keep in mind the side effects we went over earlier, as they can be problematic if used in excess. Luckily, cancers are not known to be a...  
How Often Can You Use Near-Infrared Light?  
When it comes to RLT, you can spend multiple days per week doing short sessions for the best results. However, it's best to do this in moderation due to the possible side effects on the eyes.  
See more on [opticsmag](#)



## Videos of Near infrared Frequency

Watch video  
4:28 Functional Near Infrared Spectroscopy (fNIRS) Explained! , Neuroscience Methods 101  
Psyched! 36.6K views  
Watch video  
2:38 How Does Near-Infrared Spectroscopy Work? , Fraunhofer IPMS  
Fraunhofer IPMS 10.2K views  
Watch video  
4:06 What are the major differences between infrared and near infrared spectroscopy? MetrohmTV 13.4K views  
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## Understanding Infrared Spectrum Frequencies - NLIR

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Explore the fundamentals of infrared spectrum frequencies, from near to mid and far-infrared regions. Learn how NLIR powers real-time MIR analysis!

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