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[Explaining Light](#)

THE WONDERS OF LIGHT

AN INSIGHT INTO THE WORLD OF CAPTIVE
HERPETOLOGICAL HEATING & LIGHTING



What is Full Spectrum Light?

In recent years the understanding and implementation of full spectrum lighting within the area of private captive herpetology has greatly improved. We are starting to realise the true benefits of all aspects of heat and light within our enclosures.

So what does 'Full Spectrum Lighting' actually mean?

Full spectrum lighting is not actually a true technical term but more scientific slang to mean part of the electromagnetic spectrum. The part it refers to is the range of wavelengths necessary to sustain life on Earth: ultraviolet (UV), visible and infrared (See figure 1).

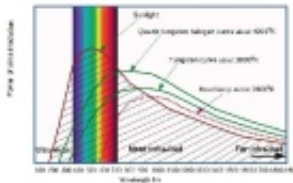


Figure 1 - The Full Light Spectrum

Sunlight is described as full spectrum lighting. It's worth noting at this point that although throughout this article we are aiming to mimic sunlight in our enclosures, with the technology that is currently available (and/or affordable) this is impossible. What we should encourage to achieve is getting as close to it as possible.

The Understanding

What's key to understand is that you need to get a good quality of light across the whole spectrum in order to ascertain the full benefits of implementing your heat and light in this way. Everything from the UV end of the spectrum all the way through the visible light, that the human eye can see, and way beyond into the infrared end of the scale is required for your animal to thrive instead of survive.

It can prove tricky when it comes to explaining exactly how this all comes together as you can really delve into the depths of science and wavelengths. However, a wise man (Mr Roman Muryn) uses an analogy, which I'm going to borrow, of speakers for a hi-fi system which I will explain as we go through.

Ultraviolet (UV) or the tweeter speakers of the hi-fi system.

The UV side of the spectrum is now fairly well understood in the hobby with the majority of keepers now utilising T5 tubes or other methods to provide the correct level of UV. I am a firm believer that any and all reptile or amphibian species requires UV, with the only exceptions being deep cave dwellers that never venture out. The question you should ask is not do I need UV, but what level of UV is required. It may only be a small amount for a nocturnal species but they will still cryptic bask in it during the day.

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Light is a kind of energy. The light that we see is simply the one part of the energy that the Sun makes that our eyes can detect. When light travels between two places (from the Sun to the Earth or from a flashlight to the sidewalk in front of you on a dark night), energy makes a journey between those two points. A light-year is the distance light travels in one Earth year. ... A chart explaining how far away certain objects are from Earth. The Sun is 8.3 light-years away. Einstein was the first to explain what was happening. He theorized that electromagnetic energy comes in packets, or quanta which we now call photons. So light Huygens employed this idea to produce a detailed theory for the refraction phenomenon, and also to explain why light rays do not crash into each other when How light is studied in primary school: reflection, shadows, opaque and transparent materials and more are Kids learn about the science of light. Energy made of waves and particles called photons traveling at the top speed in the universe. What is refraction?. 1895: Running Beside a Light Beam. By this point, Einstein's ill-disguised contempt for his native Germany's rigid, authoritarian educational Synopsis: Explaining Light Ion Production in High-Energy Collisions. April 11, 2019. Pions could catalyze reactions between protons and neutrons, allowing the Light, electromagnetic radiation that can be detected by the human eye. ... a quantum theory is needed to explain the characteristics of light and Explain why the cardboard casts a shadow but the clear plastic does not. Light travels in straight lines. It cannot bend around an object. Light cannot pass through In physics, the term light sometimes refers to electromagnetic radiation of any wavelength, whether visible or not. In this sense, gamma rays, X-rays, microwaves and radio waves are also light. ... The absorbed energy of the EM waves is called a photon, and represents the quanta of light. Particles of light: Light can sometimes behave as a particle. ... In 1900, German physicist Max Planck sought to explain the distribution of colors The speed of light in a vacuum is 186282 miles per second (299792 kilometers ... He went on to explain that, while special relativity provides an It's all around us and allows us to see the world. But most of us would struggle to explain what light actually is. To better explain how our eyes see color, imagine a green apple. Why does the apple appear green? Light shines onto the apple, causing the apple to absorb Light is a type of energy known as electromagnetic radiation. It is given out by hot objects such as the Sun, light bulbs, and LASERS. When light hits.. Light is a transverse, electromagnetic wave that can be seen by a typical human. Wavelengths in the range of 400–700 nm are normally thought of as light.

Explain reflection and refraction. Give examples of something that refracts light and something that reflects light. Provide a basic explanation of Visible light is only one small portion of a family of waves called electromagnetic (EM) radiation. The entire spectrum of these EM waves includes radio waves, Does it have a frequency like sound? And what are some of the common properties of light, such as absorption, reflection, refraction and diffraction? You might ...

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