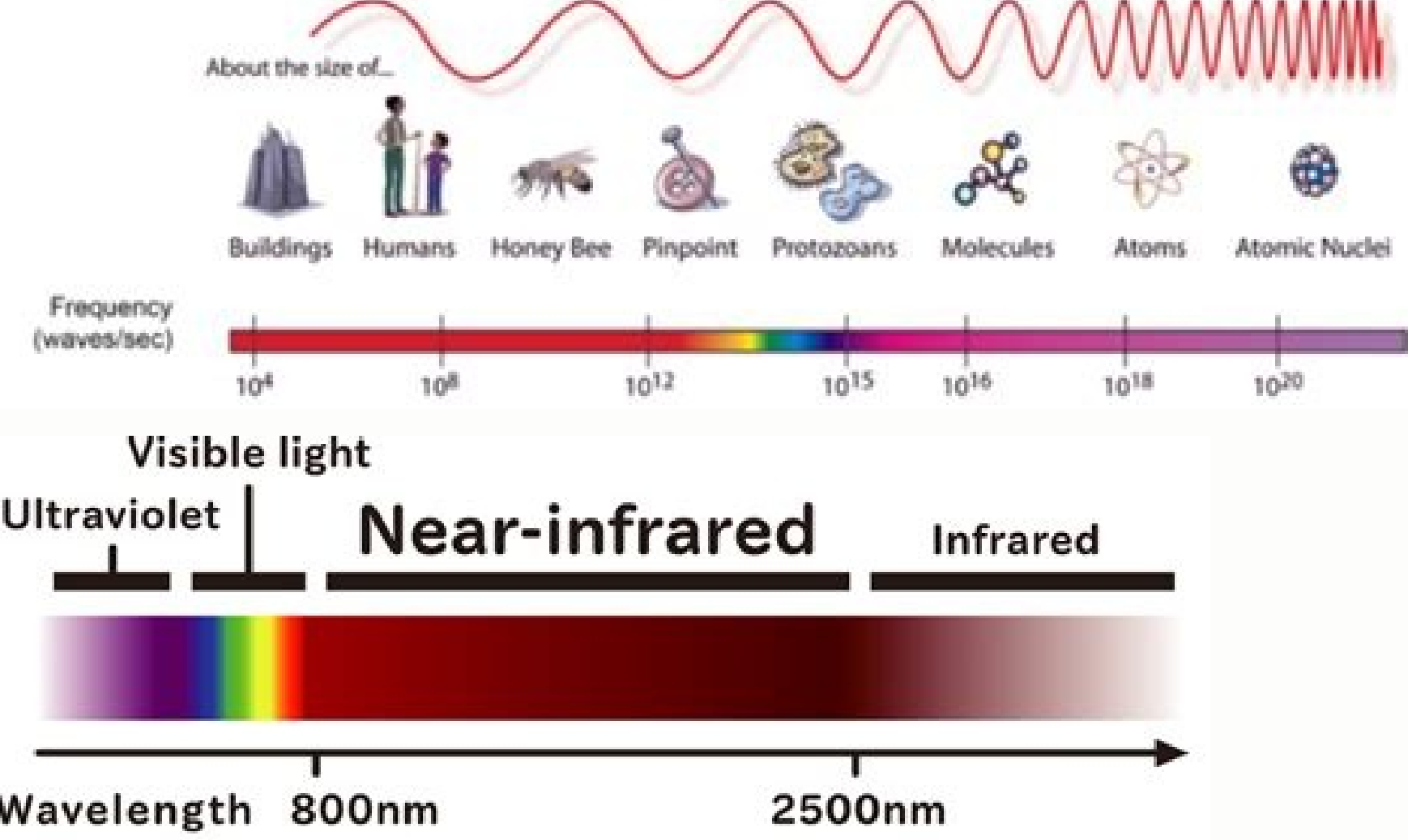
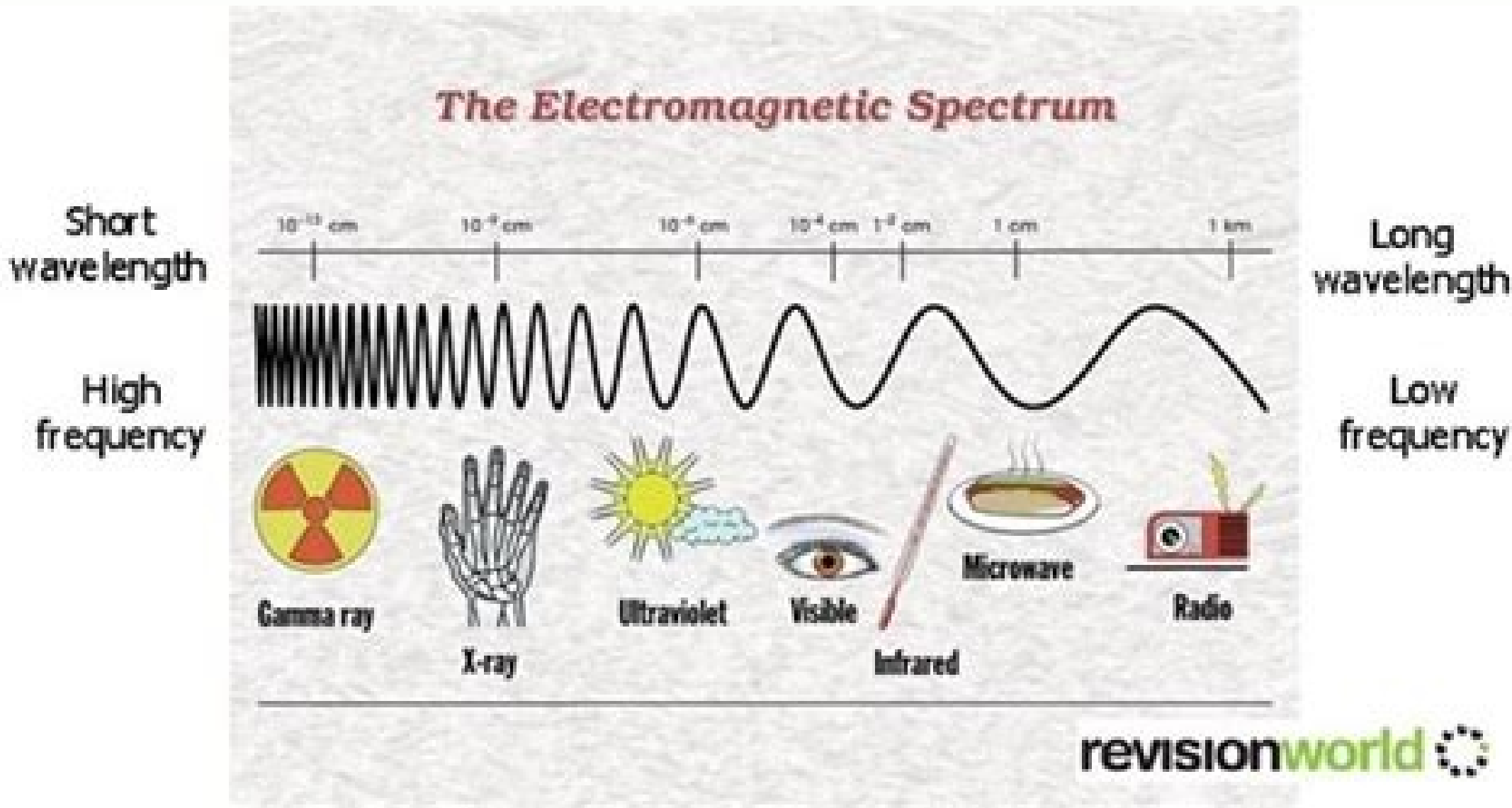
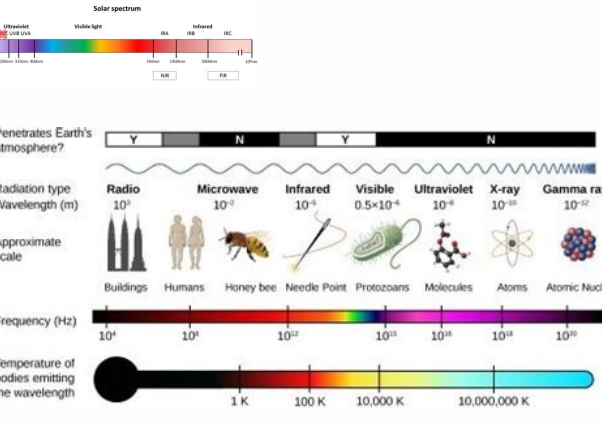


Infrared rays wavelength

Continue



The wavelength range of near-infrared is 800–2500nm



Compare the wavelengths of x-rays to infrared waves. How is the wavelength of x-rays differ from the wavelength of infrared. Infrared rays wavelength and frequency. The wavelength of infrared rays is of the order of. Wavelength of infrared rays in angstroms. Infrared rays have a shorter wavelength than. Ultraviolet rays is in wavelength than infrared. How is the wavelength of infrared compared to uv rays.

The Misfit Ray is a style-obsessed fitness tracker. It wants to be thought of as a piece of jewellery as much as a piece of tech. As a result, though, it's fairly expensive for what is a rather basic device. It costs £79, \$99, AU\$135, so while it's cheaper than your average Android Wear watch, it arguably does a bit less than the cheaper Fitbit Flex. Design and features

The first thing to get your head around is that the Misfit Ray does not tell the time. With only a single tiny little multi-colour LED on its front, a watch face simply isn't an option. Let's take a closer look at what the Misfit Ray is made of. Its body is an aluminium tube, the straps a translucent rubbery silicone. The tube is no mere style offering, though. Twist around one of the sides of the strap and the battery compartment pops out - this holds three 393 cells, and takes up a decent amount of the space in the tube. The Misfit Ray looks different - bold, even - but my honest first reaction was that it also looks a bit like something you might have to wear after a stint in prison; thankfully, though, an alarm doesn't sound when you take the Ray off your wrist. It's also only halfway there in terms of comfort. Issues with wearables tend to centre around weight, skin-irritating straps and flat-out poor ergonomics. The Misfit Ray is pretty light, and the thin strap feels fine, but unless you like your watches quite loose the main 'barrel' just isn't that comfortable. As there's no curvature to its length, no flattening-out of its bottom, the surface area that actually rests against your wrist is quite small - and after a couple of days it had given me a sore wrist, apparently lightly bruising the top tissue. This can be avoided by loosening the strap, but it's a clear sign that the Ray is ergonomically poorer than something like the Fitbit Flex or Sony SmartBand Talk SWR30, both of which are designed to follow the contours of your wrist, not actively disregard them. As you can probably tell by now, I'm not in love with the Ray's design. I like the bronze-inflected anodised finish to the aluminium, but that aside it feels a lot like strapping an AAA battery to your wrist. However, I do appreciate how different it is to your everyday tracker. Specs and performance

The Misfit Ray is a rudimentary fitness tracker. It only really has three bits of important hardware at its disposal: a three-axis accelerometer, a Bluetooth connection and a vibration motor. These are at the heart of everything the Ray can do - and they reveal its limitations. The Ray can track your steps, it can track your sleep, and it'll buzz you to let you know you've received a call or text. Note, though, that it is just calls and SMS messages on the notifications front - nothing else. As someone who tends to use WhatsApp rather than SMS texting, the alerts are largely useless. One of the neatest features of the Ray - in theory at least - is that it'll wake you up with a 'buzz' when it thinks you're in a light part of the sleep pattern. This didn't always work for me, however. On a couple of occasions I've been woken by my regular phone alarm rather than the Ray, either because the vibration alarm failed to wake me up, or didn't go off at all. And if I was using the tracker longer-term it'd probably end up on the bedside cabinet anyway. It's bigger than it appears in some photos, and bear in mind that the cylinder part sticks out from your wrist by a good inch. The Misfit Ray doesn't have an altimeter, a heart rate sensor or GPS, which means it can't accurately track your runs or hikes, and can't differentiate between you walking up stairs or on flat ground. On the fitness front, then, it's a pedometer, and little more. What elevates it above the sort of pedometer you might get at Poundland is the software. Misfit has a slick-looking app (iOS and Android) that keeps track of your activity across the days, weeks and months. Rather than focusing on the exact number of steps you've done the app has its own points system, making you work up to 1,000 points each day. I much prefer looking at number of steps when that's the only recorded metric, and the app tells you this too, as well as the estimated distance you've covered. As with any wrist-worn tracker, don't expect great accuracy from the Misfit Ray. The issue is obvious: we don't only move our arms when we walk/run. Trackers like the Ray use algorithms to try to discount this sort of movement, but the Ray's isn't all that clever. As a test I thought I'd see how many steps the Ray registered while I was rooted by to my chair, working - in about 20 minutes it had tallied 32. Where trackers like the Misfit Ray can be useful is for making you a bit more mindful of when your couch potato backside starts sprouting roots. In the Misfit app you can set the watch to give you a buzz when you've been sedentary for too long. Of course, you can get your phone to do the same thing, but it may prove useful for those in office jobs who don't keep phone in pocket all day. You can also tap the Ray to have the LED indicate how near your daily target you are. For a bit more impetus to get off your backside, there's a social side to Misfit. You can compare your 'points' to those of Misfit-owning friends. That's only useful if you have some of those, of course, but Misfit can also hook up with Google Fit, the default Android fitness software if you have an Android phone rather than an iPhone. I enjoy low-level fitness tracking. It's fun to see how much you actually move during the day, and how far you really walked that Saturday you spent schlepping around the museum. However, it's not useful beyond that; if you're training for a marathon (or even just a 5K), a GPS watch offers far more useful data. Sleep tracking, as is generally the case, doesn't really offer much beyond the satisfaction of curiosity either. You get a graphic of bars that show you when you're in periods of light and deep sleep, and when you woke up completely. The Ray only needs the accelerometer for this, because it's all based on how much you move. Compatibility and battery life

One feature of the Misfit Ray you might not like is that you have to manually sync the tracker to get an update on how you're doing - your phone and the band aren't constantly talking to each other. To do this you pull down on the screen in the app. For a tracker that wants to earn some attention, it may surprise that it actually wants to be ignored most of the time. This lazy approach to syncing is used because the Ray has non-rechargeable batteries rather than a more usual li-on cell, and they need to last as long as possible. The three 393 batteries are effectively little, but thick and stubby, watch batteries, and are easy to replace. These are meant to last up to six months, and will cost you around £6/\$10 to replace. However, I'm almost certain this figure doesn't take into account using the Ray for frequent vibrate message alerts; a little vibrate motor will use a reasonable amount of energy if it's firing off 100 times a day. Either way, battery life is far longer than 95 percent of trackers - although bear in mind that this is a display-less, clock-less device. The Misfit Ray works with Android phones running Android 4.3 or newer, and iPhones on iOS 7 or newer - if you're running something older, maybe upgrading your phone should be a higher priority than buying a Ray. The next-generation DVD format war rumbles no more. HD DVD has been axed thanks to Toshiba's announcement today. So we've pulled together our top 10 Blu-ray products on the market, from players to disc drives and software. And we say how each scores points for, or against, Blu-ray in the format war. Click on the product name to read the full review. Standalone players

Samsung BDP-1000 After all the talk, Samsung was first to walk the walk with the market's debut Blu-ray player. For that alone, the BDP-1000 deserves credit. It's still one of a very select few Blu-ray players around, and finally allowed us to see what all the fuss was about. Blu-ray verdict: Like most pioneers, it's pricey, buggy and slow. And it has no Ethernet port, which is a must for BD Live compatibility. Panasonic DMP-BD10A This is an updated version of Panasonic's debut Blu-ray offering and shows just how far Blu-ray players have come in a short time. Superb high-def picture and audio lead the way, and help to make this the best standalone player around at present. Blu-ray verdict: The best the format has to offer right now, but HD DVD still undercuts it on price. And no Ethernet port here either. LG BH100LG acts as peacemaker with the BH100 - the first dual player on the market. Sounds like a perfect solution, but the idea is far better in theory than in practice. In the end, you'd be better buying two separate players than this inconsistent offering. Blu-ray verdict: Doesn't do any favours for either format, and also gives BD Live the cold shoulder. Accessories

TechLink Switch2 HD4110 This isn't a product designed exclusively for Blu-ray, but it's good enough to get a mention here anyway. All that high-def kit needs HDMI to talk to each other, and manufacturers are strangely stingy with connections. The HD4110 is a stylish solution that works exceptionally well. Blu-ray verdict: An indicator of how both next-gen formats can work out more expensive than you first imagined. Computer hardware

Sony Vaio VGN-AR30 Sony's latest high-end Vaio laptops all have Blu-ray drives included - and rewritable ones at that. In the realm of multimedia computing, Blu-ray seems naturally at home, and the Ethernet port concerns all fall away. Blu-ray verdict: The format works in this setting, and this may be the obvious way forward until standalone players reach maturity. Dell XPS M1710 Dell is strongly behind Blu-ray in its battle with HD DVD, so it's no surprise we've started seeing Dell products featuring the technology. It's not quite in the league of the Sony above, but the XPS M1710 does illustrate the growing partnership of next-gen disc formats and Windows Media Center. Its lack of an HDMI port is a curious omission, however. Blu-ray verdict: Certainly a step up from a normal DVD drive, but some of the format's strengths are wasted here. Acer TravelMate 8215WLMi Perhaps cleverly, Acer has hedged its bets and has both Blu-ray and HD DVD-equipped laptops in its product range. The 8215WLMi itself is a capable multimedia offering, although despite its next-gen disc drive it has some ageing technology inside. Blu-ray verdict: Proof that Blu-ray needs more than just a disc drive to do it justice. Pioneer BDR-101AA Blu-ray optical reader/writer drive for the PC. Well, almost. It's pretty slow, very expensive and doesn't work with dual-layer discs. Pioneer is living up to its name here, but we'd advise waiting a while before taking the plunge. Blu-ray verdict: An Xbox 360 plus HD DVD drive costs less. Need we say more?

Software

Roxio Copy and Convert 3 Copy and Convert 3 is worth a mention here if only for proving that not everything to do with next-generation DVD is expensive. For just £20, this excellent package will take care of all your disc-authoring needs, and can even rip from Blu-ray too. Blu-ray verdict: Given the high capacity of Blu-ray discs, software like this may be invaluable to PC users. And finally... Sony PlayStation 3 The best Blu-ray player on the market, i.e. it's the cheapest player that's future-proofed due to its Ethernet port. It's true that the PS3 has taken a bit of a hammering recently as a games console. But Sony is throwing its full weight behind boosting its cause with new games, lower prices and improved hardware and software. Blu-ray's own prospects can only benefit by extension, as this remains the best way to get into next-generation disc formats. Blu-ray verdict: It may be going too far to say the entire format's success hinges on the PS3, but not by much

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