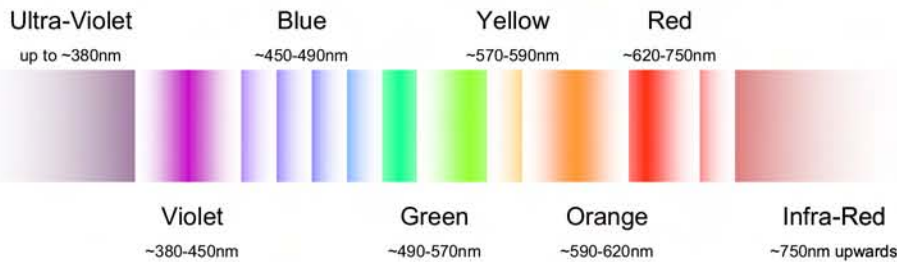


Light

Light is optical energy. It is an electromagnetic wave that is self propagating and can even travel through vacuum. The color of light is intrinsically related to its wavelength. The ultra-violet (UV) spectrum takes over from x-rays at wavelengths of few nanometers, moving into the visible spectrum with violet, which has a short wavelength (~380nm). Moving along the visible spectrum through green, yellow, orange and red the wavelength gets longer. The longest visible red wavelength is ~750nm, and beyond this is the infrared (IR) spectrum.

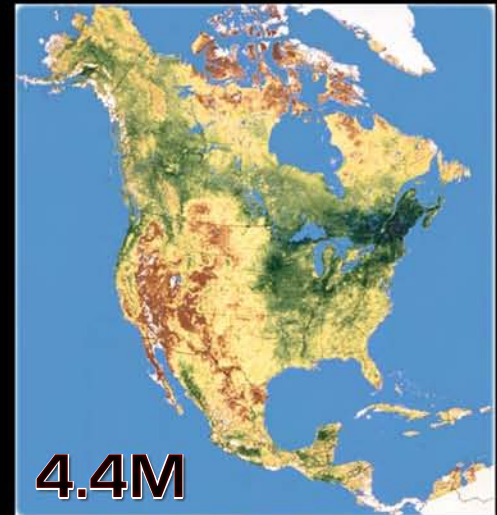


Near-infrared (N-IR) continues from the visible up to the mid-infrared (mid-IR) at about 2000nm, with the far infrared (far-IR) beyond this to ~1mm. Visible Fault Identifiers work on 650nm, and most other fiber optic equipment uses the wavelengths 850~1650nm

4.4 Million Subscribers

The number of North American fiber to the home (FTTH) subscribers continues to grow at an annual pace of approximately 1.5 million and now stands at more than 4.4 million, according to a study released today by the Fiber-to-the-Home Council. The report from the FTTH Council, which promotes and tracks the growth of next-generation, fiber-driven networks throughout the continent, also showed healthy growth in the number of homes passed by fiber networks - from 13.8 to 15.2 million - and showed that FTTH networks are now available to more than 13 percent of North American households, with end-to-end fiber connections now being used by nearly four percent of the residential telecommunications market.

Led by Verizon's massive investment in FTTH technology in the deployment of its FiOS service, the fiber to the home industry in North America also includes hundreds of smaller telephone companies and other network providers, municipalities, planned residential communities and cable television companies that are making the move to end-to-end fiber to deliver next-generation video, internet and voice services. Given the almost unlimited bandwidth of fiber, FTTH technology is seen as an ideal way of "future-proofing" networks in light of the ever increasing consumer and business demand for faster networks and higher-bandwidth applications.



Product of the Month



Yamasaki TS21 Fiber Scout

The TS21 Fiber Scout was designed and developed by Yamasaki as a cost effective and simple solution for identifying faults and testing the length of fibers. This lightweight, rugged, dustproof and water resistant piece of test equipment can list up to 8 results at one time utilising three brilliant functions.

1. Automatic Power Control - Automatically tests and adjust the best power level according to the real test environment.
2. Automatic Pulse Width Selection, which automatically selects the most suitable pulse width according to the real test distance.
3. Built-in 650nm VFI, with which can assist the user in Visual Fault Identification within 15km.

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