

Magnetic Christmas Light Clips

The Magnetic era (1945–1975) 9a891a8a1c == History == 9a891a8a1c The Sun orbits the Galactic Center at a distance of 24,000 to 28,000 light-years. Its mean distance from Earth is about 1.496×10⁸ kilometres or about 8 light-minutes. The distance between the Sun and the Earth was used to define a unit of length called the astronomical unit (au), now defined to be 149.5978707×10⁶ kilometres. It is the largest and most massive object in the Solar System; its diameter is about 1,391,400 km (864,600 mi), around 109 times that of Earth. The Sun's mass is around 330,000 times that of Earth, making up about 99.86% of the total mass of the Solar System. The mass of the Sun's surface layer, its photosphere, consists mostly of hydrogen (~73%) and helium (~25%), with much smaller quantities of heavier elements... 9a891a8a1c == History == 9a891a8a1c

Xenon arc lamp It produces a bright white light to simulate sunlight, with applications in movie projectors in theaters, in searchlights, and for specialized uses in industry and research. For example, Xenon arc lamps and mercury lamps are the two most common lamps used in wide-field fluorescence microscopes. It produces a bright white light to simulate A xenon arc lamp is a highly specialized type of gas discharge lamp, an electric light that produces light by passing electricity through ionized xenon gas at high pressure. an electric light that produces light by passing electricity through ionized xenon gas at high pressure 9a891a8a1c

Compact fluorescent lamp The adapter consists of a regular bulb screw, the ballast itself and a clip for A compact fluorescent lamp (CFL), also called compact fluorescent light, energy-saving light and compact fluorescent tube, is a fluorescent lamp designed to replace an incandescent light bulb; some types fit into light fixtures designed for incandescent bulbs. The lamps use a tube that is curved or folded to fit into the space of an incandescent bulb, and a compact electronic ballast in the base of the lamp. conventional light fixture using an adapter containing a built-in magnetic ballast 9a891a8a1c

Sun (which influenced Christmas) was part of the Roman cult of Sol Invictus. It was adopted as the Sabbath day by Christians. It is a massive sphere of hot plasma, heated to incandescence by nuclear fusion reactions in its core, radiating the energy from its surface mainly as visible light and infrared radiation with 10% at ultraviolet energies. The Sun has been an object of veneration in many cultures and a central subject of astronomical research since antiquity. The symbol of light was a pagan device The Sun is the star located at the centre of the Solar System. It is the main source of energy for life on Earth 9a891a8a1c

Not all lamps require a socket; for example, some miniature lamps have wire leads suitable for direct connection to screw terminals or other wires, and some reflector lamps provide screw terminals for electrical connections. 9a891a8a1c The Digital era (1975–present) 9a891a8a1c

History of sound recording Optical soundtracks are visual renditions of sound wave forms and provide sound through a light beam and optical sensor The history of sound recording, which has progressed in waves, driven by the invention and commercial introduction of new technologies, can be roughly divided into four main periods:. soundtrack: optical and magnetic 9a891a8a1c

Fluorescent lamp fixtures are more costly than incandescent lamps because, among other things, they require a ballast to regulate current through the lamp, but the initial cost is offset by a much lower running cost. Compact fluorescent lamps (CFL) made in the same sizes as incandescent lamp bulbs are used as an energy-saving alternative to incandescent lamps in homes. 9a891a8a1c Digital recording emerged in the late 20th century and has since flourished with the popularity of digital music and online streaming services. 9a891a8a1c Early experimental incandescent lamps employed wire leads which had to be connected to screw terminals, but this... 9a891a8a1c The Stereo 8 Cartridge was created in 1965 by a consortium led by Bill Lear of Lear Jet Corporation, along with Ampex, Ford Motor Company, General Motors, Motorola, and RCA Victor Records (RCA—Radio Corporation of America). 9a891a8a1c In the United States, fluorescent lamps are classified as universal waste. The United States Environmental Protection Agency recommends that fluorescent lamps be segregated from general waste for recycling... 9a891a8a1c

8-track cartridge called eight-track cartridge, eight-track tape, and eight-track) is a magnetic-tape sound-recording technology that was popular from the mid-1960s until The 8-track tape (formally Stereo 8; commonly called eight-track cartridge, eight-track tape, and eight-track) is a magnetic-tape sound-recording technology that was popular from the mid-1960s until the early 1980s, when the compact cassette, which antedated the 8-track system, surpassed it in popularity for recorded music 9a891a8a1c

The principle of operation remains the same as in other fluorescent lighting: electrons that are bound to mercury atoms are excited to states where they will radiate ultraviolet... 9a891a8a1c The Electrical era (1925–1945) 9a891a8a1c == Types == 9a891a8a1c

Lightbulb socket Many of the later standards conform to a general coding system in which a socket type is designated by a letter or abbreviation followed by a number. mount clip is needed to hold the actual light bulb in place G8 – 8 mm (0.31496 in) pin spacing GU8 – same as G8 and only denotes what lamp mount clip is A lightbulb socket, lightbulb holder, light socket, lamp socket or lamp holder is a device which mechanically supports and provides electrical connections for a compatible electric lamp base 9a891a8a1c

The format was commonly used in cars and was most popular in the United States and Canada, and to a lesser extent, in the United Kingdom, Ireland, and Japan. One advantage of the 8-track tape cartridge was that it could play continuously in an endless loop, and did not have to be ejected, turned around, and reinserted to play the entire tape. After about 80 minutes of playing time, the tape would start again at the beginning. Because of the loop, no rewind is possible; the only options the user has are: play, fast forward, record, and program (track) change. 9a891a8a1c Compared to general-service incandescent lamps giving the same amount of visible light, CFLs use one-fourth to one-third the electric power, and last eight to fifteen times longer. A CFL has a higher purchase price than an incandescent lamp, but can save over five times its purchase price in electricity costs over the lamp's lifetime. Like all fluorescent lamps, CFLs contain toxic mercury, which complicates their disposal. In many countries, governments have banned the disposal of CFLs together with regular garbage. These countries have established special collection systems for CFLs and other hazardous waste. 9a891a8a1c Xenon arc lamps can be roughly divided into three categories: 9a891a8a1c Incandescent bulbs are manufactured in a wide range of sizes, light output, and voltage ratings, from 1.5 volts to about 300 volts. They require no external regulating equipment, have low manufacturing costs, and work equally well on either alternating current or direct current. As a result, the incandescent bulb became widely used in household and commercial lighting, for portable lighting such as table lamps, car headlamps, and flashlights, and for decorative and advertising lighting. 9a891a8a1c Experiments in capturing sound on a recording medium for preservation and reproduction began in earnest during the Industrial Revolution of the 1800s. Many pioneering attempts to record and reproduce sound were made during the latter half of the 19th century – notably Édouard-Léon Scott de Martinville's phonautograph of 1857 – and these efforts culminated in the invention of the phonograph by Thomas Edison in 1877. 9a891a8a1c In the United States, early manufacturers of incandescent lamps used several different and incompatible bases in the 1880s and 1890s. In designing his screw, Edison copied the lid... 9a891a8a1c The Acoustic era (1877–1925) 9a891a8a1c Incandescent bulbs are much less efficient than other types of electric lighting. Less than 5% of the energy they consume is converted into visible light; the rest is released as heat. The luminous efficacy of a typical incandescent bulb... 9a891a8a1c Their types are designated as "Exx", such as "E26", where "xx" indicates the diameter of the socket in millimeters. 9a891a8a1c

Edison screw It was developed by Thomas Edison (1847–1931), patented in 1881, and was licensed in 1909 under General Electric's Mazda trademark. screw, allowing a light socket to become an ungrounded electrical outlet (such as to install Christmas lights temporarily via a porch light), or to make a Edison screw (ES) is a standard lightbulb socket for electric light bulbs. For bulbs powered by AC current, the thread is generally connected to neutral and the contact on the bottom tip of the base is connected to the "live" phase. The bulbs have right-hand threaded metal bases (caps) which screw into matching threaded sockets (lamp holders) 9a891a8a1c

The most common type of sockets for mains electricity are Edison screws, used in continental Europe and North America, while bayonet mounts dominate in the Commonwealth countries, except Canada, and in the automotive industry. Fluorescent lamps typically require a two-pin, unthreaded socket. 9a891a8a1c In North America and continental Europe, Edison screws displaced other socket types for general lighting. In the early days of electrification, Edison screws were the only standard connector, and appliances other than light bulbs were connected to AC power via lamp sockets. The Edison base was also used as the original base for camera flash bulbs. Today Edison screw sockets comply with international standards. 9a891a8a1c While the 8-track format is now considered obsolete, some collectors refurbish cartridges... 9a891a8a1c In films, television shows and video games, motion capture refers to recording actions of human actors and using that information to animate digital character models in 2D or 3D computer animation. When it includes face and fingers or captures subtle expressions or voices, it is often referred to as performance capture. In many fields, motion capture is sometimes called motion tracking, but in filmmaking and games, motion tracking usually refers more to match moving. 9a891a8a1c

Incandescent light bulb A bulb socket provides mechanical support and electrical connections. The filament is enclosed in a glass bulb that is either evacuated or filled with inert gas to protect the filament from oxidation. An incandescent light bulb, also known as an incandescent lamp or incandescent light globe, is an electric light that produces illumination by Joule heating An incandescent light bulb, also known as an incandescent lamp or incandescent light globe, is an electric light that produces illumination by Joule heating a filament until it glows. Electric current is supplied to the filament by terminals or wires embedded in the glass 9a891a8a1c

Fluorescent lamp Fluorescent lamps convert electrical energy into visible light much more efficiently than incandescent lamps, but are less efficient than most LED lamps. An electric current in the gas excites mercury vapor, to produce ultraviolet A fluorescent lamp, or fluorescent tube, is a low-pressure mercury-vapor gas-discharge lamp that uses fluorescence to produce visible light. mercury-vapor gas-discharge lamp that uses fluorescence to produce visible light. An electric current in the gas excites mercury vapor, to produce ultraviolet and make a phosphor coating in the lamp glow. The typical luminous efficacy of fluorescent lamps is 50–100 lumens per watt, several times the efficacy of general lighting incandescent bulbs with comparable light output, which is on the close order of 16 lm/W 9a891a8a1c

Motion capture It is used in military, entertainment, sports, medical applications, and for validation of computer vision and robots. When problems occur, it is easier to shoot the scene again Motion capture (sometimes referred to as mocap or mo-cap, for short) is the process of recording high-resolution movement of objects or people into a computer system. the space in which it is operated, depending on camera field of view or magnetic distortion 9a891a8a1c

In motion capture sessions, movements of one or more actors are sampled many times per second. Whereas early techniques used images from multiple cameras to calculate 3D positions, often the purpose of motion capture is to record only the movements of the actor, not their visual appearance. This animation data is mapped to a 3D model so that the model performs the same actions as the actor. This process may be contrasted with the older technique... 9a891a8a1c

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