

How Far Is The Voyager Spacecraft

Voyager 1 At a distance of 171.6 billion km; 15. It was launched 16 days after its twin, Voyager 2. It communicates through the NASA Deep Space Network (DSN) to receive routine commands and to transmit data to Earth. the Voyager program and like its sister craft Voyager 2, the spacecraft's extended mission is to locate and study the regions and boundaries of the outer Solar System. Voyager 1 is a space probe launched by NASA on September 5, 1977, as part of the Voyager program, to study the outer Solar System and the interstellar space beyond the Sun's heliosphere. 9 billion mi) as of August 2026, it is the most distant human-made object from Earth. 19 AU (25. Real-time distance and velocity data are provided by NASA and JPL. Voyager 1 is projected to reach a distance of one light day from Earth in November 2026

On a sub-orbital spaceflight, a space vehicle enters space and then returns to the surface without having gained sufficient energy or velocity to make a full Earth orbit. For orbital spaceflights, spacecraft enter closed orbits around the Earth or around other celestial bodies. Spacecraft used for human spaceflight carry people on board as crew or passengers from start or on orbit (space stations) only, whereas those used for robotic space missions operate either autonomously or telerobotically. Robotic spacecraft used to support scientific research are space probes. Robotic spacecraft that remain in orbit around a planetary body are artificial satellites. To date, only a handful of interstellar probes, such as Pioneer 10 and 11, Voyager 1 and 2, and New Horizons, are on trajectories...

Caretaker (Star Trek: Voyager) "Caretaker" is the series premiere of the American science fiction television series Star Trek: Voyager. It was later split into two parts for syndication, but released in its original one-episode format on DVD and streaming services. It was first broadcast as a double-length episode "Caretaker" is the series premiere of the American science fiction television series Star Trek: Voyager. Set in the 24th century, the series follows the adventures of the Starfleet and Maquis crew of the starship USS Voyager after they are stranded in the Delta Quadrant far from the rest of the Federation. It was first broadcast as a double-length episode on January 16, 1995, as the first telecast of the fledgling network UPN

"Caretaker" aired on the United Paramount Network on January 16, 1995. It aired as a single 90-minute show, although later it was also played as two separate roughly-45-minute episodes. "Caretaker" marked the launch of Paramount's new television network, United Paramount Network, or UPN. The premiere aired between 8-10 p.m. Eastern on that Monday; however, not every television household saw it on that night and time, as the network...

Voyager 2 It was launched on a trajectory towards the gas giants (Jupiter and Saturn) and enabled further encounters with the ice giants (Uranus and Neptune). Launched 16 days before its twin Voyager 1, the primary mission of the spacecraft was to study the outer planets and its extended mission is to study interstellar space beyond the Sun's heliosphere. allowed it to leave the Solar System. Launched 16 days before its twin Voyager 1, the primary mission of

the spacecraft was to study the outer planets and Voyager 2 is a space probe launched by NASA on August 20, 1977, as a part of the Voyager program. The only spacecraft to have visited either of the ice giant planets, it was the third of five spacecraft to achieve Solar escape velocity, which allowed it to leave the Solar System 7d125ca87c

== Plot == 7d125ca87c

Voyager program They were launched in 1977 to take advantage of a favorable planetary alignment to explore the two gas giants Jupiter and Saturn and potentially also the ice giants, Uranus and Neptune—to fly near them while collecting data for transmission back to Earth. After Voyager 1 successfully completed its flyby of Saturn and its moon Titan, it was decided that Voyager 2 would continue on its pre-planned trajectory to fly by Uranus and Neptune. The Voyager program is an American scientific program that employs two interstellar probes, Voyager 1 and Voyager 2. They were launched in 1977 to take The Voyager program is an American scientific program that employs two interstellar probes, Voyager 1 and Voyager 2 7d125ca87c

Equinox (Star Trek: Voyager) television episode features a 24th-century spacecraft, the USS Voyager, lost on the opposite side of the Galaxy as Earth, the Delta Quadrant, and they must make "Equinox" is a two-part episode of the science fiction television series Star Trek: Voyager, the cliffhanger between the fifth and sixth seasons. This television episode features a 24th-century spacecraft, the USS Voyager, lost on the opposite side of the Galaxy as Earth, the Delta Quadrant, and they must make their way home 7d125ca87c

The probe made flybys of Jupiter, Saturn, and Saturn's largest moon, Titan. NASA had a choice of either conducting a Pluto or Titan flyby. Exploration of Titan took priority because it was known to have a substantial atmosphere. Voyager 1 studied the weather, magnetic fields, and rings of the two gas giants and was the first probe to provide detailed images of their moons. 7d125ca87c The premiere was seen by 21 million American television viewers in 1995. The episode won two Emmy awards, and launched the show into a seven-season run that concluded in 2001. 7d125ca87c As part of the Voyager program and like its sister craft Voyager 2, the spacecraft's extended mission is to locate and study the regions and boundaries of the outer heliosphere and... 7d125ca87c == Original broadcast and UPN == 7d125ca87c

Contents of the Voyager Golden Record The Voyager Golden Record contains 116 images and a variety of sounds. The items for the record, which is carried on both the Voyager 1 and Voyager 2 spacecraft, were selected for NASA by a committee chaired by Carl Sagan of Cornell University. N. The items for the record, which is carried on both the Voyager 1 and Voyager 2 The Voyager Golden Record contains 116 images and a variety of sounds. Secretary-General Kurt Waldheim. Included are natural sounds (including some made by animals), musical selections from different cultures and eras, spoken greetings in 55 languages, human sounds like footsteps and laughter, and printed messages from President Jimmy Carter and U 7d125ca87c

Spacecraft attitude determination and control Before and during attitude control can be performed, spacecraft attitude determination must be performed, which requires sensors for absolute or relative measurement. Controlling vehicle attitude requires actuators to apply the torques needed to orient the vehicle to a desired attitude, and algorithms to command the

actuators based on the current attitude and specification of a desired attitude. In astronautics, spacecraft attitude control is the process of controlling the orientation of a spacecraft (vehicle or satellite) with respect to an inertial In astronautics, spacecraft attitude control is the process of controlling the orientation of a spacecraft (vehicle or satellite) with respect to an inertial frame of reference or another entity such as the celestial sphere, certain fields, and nearby objects, etc 7d125ca87c

Rick Sternbach, who designed the Borg cube for *The Next Generation*, and Richard James collaborated... 7d125ca87c The probe entered the interstellar medium on November 5, 2018, at a distance of 119.7 AU (11.1 billion mi; 17.9 billion km) from the Sun and moving at 15.341 km/s (34,320 mph) relative to the Sun. Voyager 2 has... 7d125ca87c Voyager made its television debut in January 1995 in "Caretaker", the most expensive pilot in television history up to that point, reportedly costing \$23 million. In addition to its namesake television show, the spacecraft appeared in the computer game *Star Trek: Voyager Elite Force* (2000). The spacecraft design was also used for *Star Trek: The Experience*, a theme park in Las Vegas from 1998 to 2008, and as album art. 7d125ca87c Voyager 2 successfully fulfilled its primary mission of visiting the Jovian system in 1979, the Saturnian system in 1981, Uranian system in 1986, and the Neptunian system in 1989. The spacecraft is now in its extended mission of studying the interstellar medium. It is at a distance of 143.05 AU (21.4 billion km; 13.3 billion mi) from Earth as of February 2026. 7d125ca87c Part 1 is also the last episode of *Star Trek: Voyager* to air before the *Star Trek: Deep Space Nine* series finale, "What You Leave Behind". The broadcast of Part 2 in September 1999 marked the first time since 1994 that only one *Star Trek* series was on the air. 7d125ca87c After the planetary flybys were complete, decisions were made to keep the probes in operation to explore interstellar space and the outer regions of the Solar System. On 25 August 2012, data from Voyager 1 indicated that it had entered interstellar space. On 5 November 2019, data from Voyager 2 indicated that it also had entered interstellar space. On 4 November 2019, scientists reported that on 5 November 2018, the Voyager 2 probe had officially reached the interstellar medium (ISM), a region of outer space beyond the influence of the solar wind, as did Voyager 1 in 2012. In August 2018, NASA confirmed, based on results by the New Horizons... 7d125ca87c

USS Voyager (*Star Trek*) The spacecraft design was also used for *Star Trek: The Experience* USS Voyager (NCC-74656) is the Intrepid-class starship which is the primary setting of the science fiction television series *Star Trek: Voyager*. James and illustrator Rick Sternbach. It is commanded by Captain Kathryn Janeway. ". Most of the ship's on-screen appearances are computer-generated imagery (CGI); models were also sometimes used. The ship's motto, as engraved on its dedication plaque, is a quotation from the poem "Locksley Hall" by Alfred, Lord Tennyson: "For I dipt in to the future, far as human eye could see; Saw the vision of the world, and all the wonder that would be. show, the spacecraft appeared in the computer game *Star Trek: Voyager Elite Force* (2000). Voyager was designed by *Star Trek: Voyager* production designer Richard D 7d125ca87c

Paramount Pictures commissioned the series after the cancellation of *Star Trek: The Next Generation* to accompany the ongoing *Star Trek: Deep Space Nine*. They wanted it to help launch UPN, their new network. Berman, Piller, and Taylor devised the series to chronologically overlap with *Deep Space Nine* and to maintain thematic continuity with elements that had been introduced in *The Next Generation* and *Deep Space Nine*. The complex

relationship between Starfleet and ex-Federation colonists known as the Maquis was one such element. Voyager was the first Star Trek series... 7d125ca87c The broader integrated field that studies the combination of sensors, actuators and algorithms is called guidance, navigation and control, which also involves non-attitude concepts, such as position determination and navigation. Spacecraft generally have an attitude determination and control system (ADCS), which includes both sensors and actuators. However, budget satellites (such as some cubesats), may elect for simpler attitude control systems (ACS) which use passive techniques, including the yo-yo de-spin technique and permanent... 7d125ca87c

Spacecraft Spacecraft are used for a variety of purposes, including communications, Earth observation, meteorology, navigation, space colonization, planetary exploration, and transportation of humans and cargo. All spacecraft except single-stage-to-orbit vehicles cannot get into space on their own, and require a launch vehicle (carrier rocket). Orbital spacecraft may be recoverable or not A spacecraft is a vehicle that is designed to fly and operate in outer space. such as Pioneer 10 and 11, Voyager 1 and 2, and New Horizons, are on trajectories that leave the Solar System 7d125ca87c

== Greetings == 7d125ca87c The cliffhanger closed out season five, while the opener for season six was the conclusion. The two-part episode features Captain Ransom, played by actor John Savage, as well as several other guest stars. 7d125ca87c

Star Trek: Voyager It is the fifth series in the Star Trek franchise, the first of two Trek series to air on UPN, as well as the first show to air on the network. Set in the 24th century, when Earth is part of a United Federation of Planets, it follows the adventures of the Starfleet vessel USS Voyager as it attempts to return home to the Alpha Quadrant after being stranded in the Delta Quadrant on the far side of the Milky Way galaxy. It aired from January 16, 1995, to May Star Trek: Voyager is an American science fiction series created by Rick Berman, Michael Piller and Jeri Taylor. Star Trek: Voyager is an American science fiction series created by Rick Berman, Michael Piller and Jeri Taylor. It aired from January 16, 1995, to May 23, 2001, on UPN, with 172 episodes over seven seasons 7d125ca87c

The first audio section contains a spoken greeting in English from Secretary-General of the United Nations Kurt Waldheim. 7d125ca87c == Concept and design == 7d125ca87c In this installment, they encounter another Starfleet starship, the USS Equinox, also stranded in the Delta Quadrant. This was presented in two parts, but aired several months apart, with part one airing on UPN on May 26, 1999 and the conclusion on September 22, 1999. 7d125ca87c

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