

Query ID: test567

Query Text: where was a hologram for the king filmed

**Retrieved Documents:**

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| 1 | doc20544   | A Hologram for the King (film). Production was set to begin in first quarter of 2014.[10] Principal photography commenced on March 6, 2014 in Morocco.[12] Filming also took place in Hurghada in Egypt,   |
| 0 | doc20543   | A Hologram for the King (film). On June 12, 2013, Tom Tykwer was reported to be developing an adaptation of 2012 novel A Hologram for the King, written by Dave Eggers. Tykwer wrote and directed the fi   |
| 0 | doc20542   | A Hologram for the King (film). The film tells the story of a washed-up, desperate American salesman who travels to Saudi Arabia to sell a holographic teleconferencing system to the Saudi government.[   |
| 0 | doc20540   | A Hologram for the King (film). A Hologram for the King is a 2016 comedy-drama film directed, written and co-scored by Tom Tykwer, based on the 2012 novel of the same name written by Dave Eggers,[6][7   |
| 0 | doc20541   | A Hologram for the King (film). Sidse Babett Knudsen, Tom Skerritt and Sarita Choudhury also star in this international co-production between France, Germany, the Cayman Islands, Mexico, and the Unite   |
| 0 | doc20545   | A Hologram for the King (film). Writing for the New York Times, Stephen Holden called the movie "a story of confusion, perplexity, frustration and panic," praising Tom Hanks's ability to turn it into    |
| 0 | doc20546   | A Hologram for the King (film). The film grossed \$1.1 million in its opening weekend, finishing 11th at the box office. With a total worldwide gross of \$8,244,651 (U.S. domestic gross of \$4,212,494), |
| 0 | doc1207958 | King of Kings (1961 film). The production was photographed in Technirama by Manuel Berenguer, Milton R. Krasner and Franz Planer, and was presented in 70mm Super Technirama at selected first-run engag   |
| 0 | doc1224661 | Holography. When the hologram plate is illuminated by a laser beam identical to the reference beam which was used to record the hologram, an exact reconstruction of the original object wavefront is ob   |
| 0 | doc1224719 | Holography. Fictional depictions of holograms have, however, inspired technological advances in other fields, such as augmented reality, that promise to fulfill the fictional depictions of holograms b   |
| 0 | doc920754  | The King's Speech. On 26 November, a week's filming with Firth, Rush, and Jacobi began at Ely Cathedral, the location used for Westminster Abbey. The production had asked for permission to film in the   |
| 0 | doc1207960 | King of Kings (1961 film). At the time of its release, the film received negative reviews from major publications such as Time magazine[5] and New York Times's Bosley Crowther. The latter felt that th   |
| 0 | doc2269475 | Message from the King (film). The film was shot in Glendale, California.[7]  |
| 0 | doc2020827 | The King and Four Queens. At Clark Gable's request, the film was shot on location in southern Utah because he was familiar with the area, having hunted there for years. Footage was shot near St. Georg   |
| 0 | doc1224604 | Holography. Most holograms produced are of static objects but systems for displaying changing scenes on a holographic volumetric display are now being developed.[15][16][17]                              |
| 0 | doc1224651 | Holography. The recording medium should be able to resolve fully all the fringes arising from interference between object and reference beam. These fringe spacings can range from tens of micrometers t   |
| 0 | doc1224662 | Holography. A holographic image can also be obtained using a different laser beam configuration to the original recording object beam, but the reconstructed image will not match the original exactly.[   |
| 0 | doc1224676 | Holography. The MIT Museum[54] and Jonathan Ross[55] both have extensive collections of holography and on-line catalogues of art holograms.  |
| 0 | doc1224596 | Holography. Holography is the science and practice of making holograms. Typically, a hologram is a   |

	photographic recording of a light field, rather than of an image formed by a lens, and it is used to
0	doc1224597 Holography. In its pure form, holography requires the use of laser light for illuminating the subject and for viewing the finished hologram. In a side-by-side comparison under optimal conditions, a ho
0	doc1224602 Holography. Another kind of common hologram, the reflection or Denisyuk hologram, can also be viewed using a white-light illumination source on the same side of the hologram as the viewer and is the t
0	doc1224598 Holography. Holography is distinct from lenticular and other earlier autostereoscopic 3D display technologies, which can produce superficially similar results but are based on conventional lens imagin
0	doc1224699 Holography. Covertly storing information within a full colour image hologram was achieved in Canada, in 2008, at the UHR lab. The method used a fourth wavelength, aside from the RGB components of the
0	doc1482827 King of Jazz. There are a couple of early examples of the overhead views later elaborated and made famous by Busby Berkeley, but this film bears little resemblance to his films and other musicals of t
0	doc1224654 Holography. An existing hologram can be copied by embossing[37] or optically.[38]
0	doc1224646 Holography. A transmission hologram is one where the object and reference beams are incident on the recording medium from the same side. In practice, several more mirrors may be used to direct the bea
0	doc1207965 King of Kings (1961 film). The film is recognized by American Film Institute in these lists:
0	doc1037589 The Kingsroad. Viewing figures were unchanged from the premiere, despite the second episode airing on Easter Sunday. Critical reception to the episode was favorable. Filming locations included several
0	doc1224615 Holography. This missing key is provided later by shining a laser, identical to the one used to record the hologram, onto the developed film. When this beam illuminates the hologram, it is diffracted
0	doc1224715 Holography. In 2011, in Beijing, apparel company Burberry produced the "Burberry Prorsum Autumn/Winter 2011 Hologram Runway Show", which included life size 2-D projections of models. The company's own
0	doc1224616 Holography. Holography may be better understood via an examination of its differences from ordinary photography:
0	doc1207940 King of Kings (1961 film). King of Kings is a 1961 American Biblical epic film made by Samuel Bronston Productions and distributed by Metro-Goldwyn-Mayer. Directed by Nicholas Ray, the film is a drama
0	doc1224660 Holography. A hologram can be copied optically by illuminating it with a laser beam, and locating a second hologram plate so that it is illuminated both by the reconstructed object beam, and the illum
0	doc1224609 Holography. In laser holography, the hologram is recorded using a source of laser light, which is very pure in its color and orderly in its composition. Various setups may be used, and several types o
0	doc1207966 King of Kings (1961 film). King of Kings was released to DVD and Blu-ray by Warner Home Video on July 28, 2009 and on March 29, 2011, respectively as a Region 1 widescreen disc.
0	doc1224612 Holography. A hologram can be made by shining part of the light beam directly into the recording medium, and the other part onto the object in such a way that some of the scattered light falls onto th
0	doc1224635 Holography. To make a hologram, the following are required:
0	doc1224620 Holography. A simple hologram can be made by superimposing two plane waves from the same light source on a holographic recording medium. The two waves interfere, giving a straight-line fringe pattern
0	doc1224640 Holography. The objects that form the scene must, in general, have optically rough surfaces so that they scatter light over a wide range of angles. A specularly reflecting (or shiny) surface reflects
0	doc920766 The King's Speech. At other times, the camera was positioned very close to the actors to catch the emotion in their faces: "If you put a lens 6 inches from somebody's face, you get more emotion than i
0	doc1224625 Holography. To record a hologram of a complex object, a laser beam is first split into two beams of light. One beam illuminates the object, which then scatters light onto the recording medium. Accordi
0	doc1207956 King of Kings (1961 film). The film features scenes of Jesus' miracles and his Sermon on the Mount (shot with many thousands of extras), as well as a scene where Jesus visits John the Baptist in his d

0	doc645291	King Kong (1933 film). In August 1932, the island landing party scene and the gas bomb scene were filmed south of Los Angeles on a beach at San Pedro, California. All of the native village scenes were
0	doc1224670	Holography. Since each point in the object illuminates all of the hologram, the whole object can be reconstructed from a small part of the hologram. Thus, a hologram can be broken up into small pieces
0	doc1224669	Holography. Any change in the shape, orientation or wavelength of the reference beam gives rise to aberrations in the reconstructed image. For instance, the reconstructed image is magnified if the las
0	doc1835276	Louis Le Prince. Le Prince developed a single-lens camera in his workshop at 160 Woodhouse Lane, Leeds. An improved version was used to shoot his motion-picture films. Remaining surviving production c
0	doc1257486	Stereoscopy. Although the original photographic processes have proven impractical for general use, the combination of computer-generated holograms (CGH) and optoelectronic holographic displays, both u
0	doc920752	The King's Speech. The UK Film Council awarded the production 1 million in June 2009.[14] Filming began in December 2009, and lasted 39 days. Most was shot in the three weeks before Christmas because
0	doc920776	The King's Speech. The film was distributed by Transmission Films in Australia and by Momentum Pictures in the United Kingdom. The Weinstein Company distributed it in North America, Germany, Benelux,
0	doc1224717	Holography. Holography has been widely referred to in movies, novels, and TV, usually in science fiction, starting in the late 1970s.[86] Science fiction writers absorbed the urban legends surrounding
0	doc1224666	Holography. In this method, parallax in the vertical plane is sacrificed to allow a bright, well-defined, gradiently colored reconstructed image to be obtained using white light. The rainbow holograph
0	doc1207957	King of Kings (1961 film). Nicholas Ray's direction balances majestic spectacle with more mundane and small-scale drama, such as Jesus' relationships with his mother and the apostles. The Sermon on th
0	doc567259	Mike Massimino. Massimino makes a brief appearance at a shuttle launch in Chapter XXIX of the 2012 novel A Hologram for the King, in which he discusses his experience in space.
0	doc920756	The King's Speech. The crew investigated Logue's former consultation rooms, but they were too small to film in. Instead, they found a high, vaulted room not far away in 33 Portland Place. Eve Stewart,
0	doc920764	The King's Speech. Hooper employed a number of cinematic techniques to evoke the King's feelings of constriction. He and cinematographer Danny Cohen used wider than normal lenses to photograph the fil
0	doc2594780	The Way of Kings. In October 2016, the rights to the entire Cosmere universe were licensed by DMG Entertainment. DMG is fast-tracking an adaptation of The Way of Kings.[27] Patrick Melton and Marcus D
0	doc1207961	King of Kings (1961 film). However, its reputation has since improved, with such critics as Leonard Maltin giving the film three-and-a-half stars out of four. Musicians such as Grammy Award-winning Ar
0	doc183777	Kingsman: The Golden Circle. Principal photography on the film began on 15 May 2016 in Birmingham.[21][22][23] Filming also took place in Warner Bros. Studios, Leavesden. On 13 September 2016, Kingsma
0	doc1224647	Holography. Normally, transmission holograms can only be reconstructed using a laser or a quasi-monochromatic source, but a particular type of transmission hologram, known as a rainbow hologram, can b
0	doc1224634	Holography. When the reference and object beams are incident on the holographic recording medium at significantly different angles, the virtual, real, and reference wavefronts all emerge at different
0	doc2482108	In the Name of the King. Visual effects were added in post-production. Companies included Elektrofilm, Frantic Films, The Orphanage, PICTORION das werk, Rocket Science VFX, Technicolor Creative Servic
0	doc1257485	Stereoscopy. Laser holography, in its original "pure" form of the photographic transmission hologram, is the only technology yet created which can reproduce an object or scene with such complete reali
0	doc1224663	Holography. White light consists of light of a wide range of wavelengths. Normally, if a hologram is

	illuminated by a white light source, each wavelength can be considered to generate its own holograp
0	doc1224681 Holography. In static holography, recording, developing and reconstructing occur sequentially, and a permanent hologram is produced.
0	doc1224627 Holography. When the hologram is illuminated by the original reference beam, each of the individual zone plates reconstructs the object wave that produced it, and these individual wavefronts are combi
0	doc1224605 Holography. Holograms can also be used to store, retrieve, and process information optically.[18]
0	doc1224672 Holography. Salvador Dali claimed to have been the first to employ holography artistically. He was certainly the first and best-known surrealist to do so, but the 1972 New York exhibit of Dali hologra
0	doc920758 The King's Speech. Other locations include Cumberland Lodge, Harley Street, Knebworth, Hatfield House, the Old Royal Naval College in Greenwich, Queen Street Mill Textile Museum in Burnley, and Batte
0	doc645283 King Kong (1933 film). On the other hand, the Williams process, invented by cinematographer Frank D. Williams, did not require a system of colored lights and could be used for wider shots. It was used
0	doc144872 The Lord of the Rings: The Return of the King. The Return of the King contains 1,488 visual effect shots, nearly three times the number from the first film and almost twice that of the second. Visual
0	doc1835280 Louis Le Prince. The only existing images from Le Prince's 16-lens camera are a sequence of 16 frames of a man walking around a corner. This appears to have been shot onto a single glass plate (which
0	doc1224705 Holography. In principle, it is possible to make a hologram for any wave.
0	doc1224649 Holography. Only volume holograms can be used to make reflection holograms, as only a very low intensity diffracted beam would be reflected by a thin hologram.
0	doc1224687 Holography. In 1971, Lloyd Cross opened the San Francisco School of Holography and taught amateurs how to make holograms using only a small (typically 5A mW) helium-neon laser and inexpensive home-mad
0	doc314041 Sky King. The series was set in Arizona, but actually filmed in the high desert of California. The ranch house used for exterior shots of the Flying Crown Ranch is an actual residence in Apple Valley,
0	doc2037776 Jack the Giant Slayer. Principal photography began on April 12, 2011, in the British countryside.[10] In May 2011, production moved to Somerset, England for two weeks with filming scheduled in Wells,
0	doc1224713 Holography. An even simpler illusion can be created by rear-projecting realistic images into semi-transparent screens. The rear projection is necessary because otherwise the semi-transparency of the s
0	doc103309 The King and I (1956 film). In 1961, it was re-released for the first time in a 70A mm format, under Fox's "Grandeur 70" trademark.[11] For this release, the six-channel version of the stereo soundtrack
0	doc1224623 Holography. When a plane wave-front illuminates a negative lens, it is expanded into a wave that appears to diverge from the focal point of the lens. Thus, when the recorded pattern is illuminated wit
0	doc1555575 The Madness of King George. Principal photography took place from 11 July to 9 September 1994. The film was shot at Shepperton Studios and on location at:[citation needed]
0	doc2354834 Stereophonic sound. Because of the standard 35 mm-size film, CinemaScope and its stereophonic sound was capable of being retrofitted into existing theaters. CinemaScope 55 was created by the same comp
0	doc1224600 Holography. The development of the laser enabled the first practical optical holograms that recorded 3D objects to be made in 1962 by Yuri Denisyuk in the Soviet Union[5] and by Emmett Leith and Juris
0	doc1224606 Holography. In its early days, holography required high-power expensive lasers, but nowadays, mass-produced low-cost semi-conductor or diode lasers, such as those found in millions of DVD recorders an
0	doc1645873 Horsham. Horsham has featured in the films 31 North 62 East and A Dark Reflection (2014 film).

0	doc1224637	Holography. The exposure time required to record the hologram depends on the laser power available, on the particular medium used and on the size and nature of the object(s) to be recorded, just as in
0	doc1835271	Louis Le Prince. Other information: The existence of this camera is speculative. No description exists, but it seems likely that an experimental version preceded the one Le Prince successfully filmed
0	doc1224675	Holography. A small but active group of artists still integrate holographic elements into their work.[52] Some are associated with novel holographic techniques; for example, artist Matt Brand[53] empl
0	doc1224683	Holography. The amount of processed information can be very high (terabits/s), since the operation is performed in parallel on a whole image. This compensates for the fact that the recording time, whi
0	doc1835240	Louis Le Prince. A Frenchman who also worked and experimented in the United Kingdom and the United States, Le Prince's motion picture experiments culminated in 1888 in the city of Leeds, England.[4] I
0	doc720925	One Night with the King. The movie was filmed entirely in the state of Rajasthan, India.[3]
0	doc920734	The King's Speech. Principal photography took place in London and around Britain from November 2009 to January 2010. Hard light was used to give the story a greater resonance and wider than normal len
0	doc1224650	Holography. The recording medium has to convert the original interference pattern into an optical element that modifies either the amplitude or the phase of an incident light beam in proportion to the
0	doc16481	Death Star. A hologram from the original Death Star is briefly visible in a scene at the Resistance base in Star Wars: Episode VII - The Force Awakens and used as a means of comparison with one from t
0	doc891280	The Hobbit (film series). Principal photography began on 21 March 2011 in Wellington, New Zealand. Filming took place at Wellington Stone Street Studios, the town of Matamata and at other undisclosed
0	doc2482107	In the Name of the King. The film was shot near the Municipality of Sooke, the westernmost area of the Greater Victoria, Capital Regional District (CRD), British Columbia. Locals and First Nations peo
0	doc1501051	Jem and the Holograms (film). aJon M. Chu, Director[9]
0	doc103305	The King and I (1956 film). Reprising their Broadway stage roles, Saunders played Thiang, Adiarte was Chulalongkorn and Benson was the Kralahome, and dancers Yuriko and de Lappe also reprised their st
0	doc1224673	Holography. During the 1970s, a number of art studios and schools were established, each with their particular approach to holography. Notably, there was the San Francisco School of Holography establi
0	doc1207963	King of Kings (1961 film). According to MGM records, the film earned \$8 million in North America and \$5.4 million overseas, earning a profit of \$1,621,000.[1] According to the Internet Movie Database,
0	doc407792	The King of Queens. Most scenes take place in the Heffernans' home, but other common locations include Doug and Carrie's workplaces, the restaurant "Cooper's" and the residences of friends and family.

#### Non-retrieved Relevant Documents: