

I'm not a bot





This product is intended for use in motor vehicle only. Do NOT install the camera where it might block the driver's view of road(including the mirrors) or the deployment of the airbag. Before using this camera, please insert the memory card first, and format the memory card in camera menu first. This camera records video at high resolution. Be sure to use high speed Micro SD card, Class 10 or above is recommended, 16GB or 32GB cards are recommended. For safety reasons, this camera has a small built-in battery. It's used only for saving the video file after external power supply cuts off (car turns off). Be sure the camera lens is clean and there is nothing blocking the lens. DO NOT leave the camera in direct sunlight for a long period of time or where the temperature could go above 170°F(75°C). Interface and Button Function Button Function: UP In Setting Menu. Short press to select option and adjust values. In Playback, short press to select media files. MENU In Video / Photo / playback mode (video/playback stopped), short press to access the menu settings for that particular mode, and press twice to access System Setting Menu. Down/ Mute In Setting Menu. Short press to select option and adjust values. In Playback, short press to select media files. During video recording, short press to turn on/off audio recording. OK In Video Mode, short press to start / stop video recording In Photo Mode, short press to take a photo. In Setting Menu, short press to confirm selection and adjustment. In Playback short press to select and play recorded files MODE In standby, press to switch mode between Video / Photo / Playback Lock During video recording, short press to lock/Unlock current video file. Power When power off, Press & Hold to turn on the camera. In any status, Press & Hold to turn off the camera. In any mode, short press to turn OFF/ON the screen display. Set up and Installation: Cigarette lighter Socket Use the suction cup mount / 3M sticker mount to install the CE52 dash cam on the windshield, recommended place near the rearview mirror facing front, adjust the lens angle for best coverage. Plug the included power adapter into the car cigarette lighter socket, the indicator will light up means power on. Connect the power adapter and the dash cam and route the excess cable alongside the interior trim for better looking. Operating Mode: The CE52 operates in 3 modes: Video Recording Mode, Photo Mode and Playback Mode. These modes also have menu to help you configure recording and taking photos. Press MODE button to switch between different modes and access the mode you want to watch the icon on top left corner of the screen for each mode. A. Video recording mode: The camera will automatically enter Video Recording Mode and start recording when connected to a car charger and power on. A Red dot flashing on the top left corner indicates recording is in progress. Press the OK to stop recording, or start recording again. Video Mode Icon Loop Recording Status Video Resolution Parking Monitor Status Recording Time Memory Card Status Power Status Date & Time Exposure:Adjust exposure value to adjust the brightness of the video. Power-On Recording:Turn on this function so when the car starts and camera powers on, it will automatically start video recording. Time Stamp:Enable/Disable the date and time marks in video files. Plate Number Stamp:With this function on, your plate number will be marked in the video files.The plate number can be edited in the menu B. Photo Taking Mode The CE52 camera can operate in Photo Taking Mode, and take HD photo up to 12 Mega Pixels. To take a photo: Simply power on the CE52 camera. Press MODE to select Photo Mode, and Press OK to take a photo. Like the Video Recording Mode, you can press the MENU button once to access the setting menu for Photo Mode, Press MENU twice to enter System Setting Menu.In all 3 operating mode, you can press the MENU button once to access the menu settings for that particular mode, and press twice to enter System Setting Menu. The System Setting Menu is common to all modes, See Page 09-11. Press UP and DOWN to scroll through the various setting options and press OK to select and confirm selection. Press MENU again to exit the setting menu. Video Resolution: Adjust recording video resolution, 4K 25fps / 2.7K 30fps / 1080P 60fps / 1080P 30fps / 720P 30fps available. Video Quality:Adjust video quality, General / Good / Very Good available. Loop Recording: This function allows you to set video file length to 1/2/3/minutes. Select a value to activate loop recording, so when storage fills up, it will automatically loop back to the earliest file and overwrite it. White Balance:Adjust white balance according to the surrounding light to get best color effect. White Balance / Sunny / Cloudy / Incandescent / Fluorescence available. Contrast:Adjust video contrast to enhance video quality. Photo Taking Mode Icon 6. Memory Card Status Exposure Value 7. Remaining Photo Storage White Balance 8. Date & Time Photo Quality 9. Power Status Photo Resolution Photo Resolution: Set the photo resolution, 12 MP/8 MP/5 MP/2 MP available. Photo Quality: Adjust photo quality, General / Good / Very Good available. Exposure: Adjust exposure value to adjust the brightness of the photo. White Balance Adjust white balance according to the surroundings to get best color effect. We recommend keep it on Auto. Automatically / Sunny / Cloudy / Incandescent / Fluorescence available. Photo Watermark: Enable/Disable the date and time marks in photos. C. Playback Mode: This mode allows you to play back recorded video or view photos, and manage the recorded files. Stop video recording, and press MODE button twice to enter Playback Mode. Use UP and DOWN button to scroll through the recorded files/ photos, and press OK to view recorded video. Press Menu button to delete the selected file. In video or photo mode, press MENU button twice to access System Setting Menu. The TOOL icon is highlighted in the upper left corner. Parking Monitor OFF / Low / Middle / High It's used to protect your car after parking, with this function on, after you stop the car and the camera turns off, it stays standby, when camera detects shaking, it will automatically turn on and take a 15 seconds photo, then return to standby automatically. The detection sensitivity can be adjusted. G-Sensor: OFF / Low / Middle / High G-sensor will detect significant or sudden shock and movement then the camera will automatically locks current recording file from loop recording, Record Sound Turn ON/OFF switch regarding in video. Volume: Low / Middle / High Adjust camera speaker volume Keystone: Turn ON/OFF button operation prompt. Language Adjust menu language. English / Simplified Chinese Traditional Chinese / Japanese / Korean / German/French / Italian / Spanish/Light Frequency. Audio / 50Hz/ 60Hz Set light frequency according to local regulation. Card Info a. Available / Total Remaining available storage / total storage on the memory card. b. Locked Files Occupied Storage space taken by locked files c. Card Speed Test Press OK to run speed test of the memory card. Recommended card write speed should be over 10MB/s. Delay Shutdown OFF / SS / 10S / 15S Adjust the time delay when the camera will power off after external power supply cuts off. Format Choose to format the memory card. Recommended to format the memory card if the memory card is never used on this camera before. Date & Time Set the system date and time. Change the date and time by using the UP and DOWN button, then press OK to confirm adjusting. Screen Saver OFF / 10S / 30S / 60S Set the time to automatically turn off the LCD display after no operation. Restore Factory Settings Reset all settings back to factory default. Firmware Version Check firmware version. Specification: Model Tougard CE52 Image Sensor High Resolution CMOS Sensor Screen 3 inches LCD Display Lens 170°High-Resolution Wide Angle Lens Video Resolution 4K 25fps / 2.7K 30fps / 1080P 60fps / 1080P 30fps / 720P 30fps Video Format MP4 Video Coding H.264 Video Mode Normal / Loop Record Picture Format JPEG Photo Resolution 12MP/10MP/8MP/5MP/3MP / 2MP Loop Recording 1 / 2 / 5 minutes Power on recording Supported G-Sensor Lock Supported Language English / Simplified Chinese / Traditional Chinese / Japanese / Korean / German/French / Italian / Spanish Audio Recording Built-in microphone, On / Off optional Storage Micro SD Card (up to 32GB) USB Interface Mini USB Operating System Windows 7/10 or MAC Internet Power Built-in Li-ion Battery External power supply DV 5V / 2A Storage temperature -50°C ~ 60°C (-4°F-140°F) Operating temperature -10°C ~ 50°C (14°F-122°F) Common Problems and Answers: Q The dash cam will stop automatically while recording. A Check whether the memory is full. Check whether the loop recording function is turned ON. Check whether the Micro SD card is high-speed above C10 Check the memory card, there might be too many locked video that the loop recording won't work right. Q The camera powers on automatically. A That could be the parking monitor function being triggered, check the setup menu. Q If the video played on the computer is somehow not fluent or jammed. A Try to play the video with different video players, like: PotPlayer or VLCPlayer. Format your Micro SD card in the camera. Run speed test on the memory card to make sure the memory ard fits the requirement: Write Speed is over 10MB/s. Q: There are stripes interference in the image. A That should be wrong light frequency. According to the local regulation, choose the appropriate frequency settings 50Hz or 60Hz. Q: Suction mount cannot attach on windshield well? A:1. Please clean the windshield where attaching with a glass cleaning wiper. Removed the protective film, If it does not work, warming your windshield then try it again. 2. Please soak suction mount to warm water for a moment. 3. If it is still not working, we are glad to send a new suction
mount to you, please contact us to get a replacement. Q: Without external power supply, the camera only lasts very short time, or it just can't turn on. A: The built-in battery is low capacity for safety reasons, and the battery is used to save the video and parking monitor only. It is not designed to work without external power supply If you have any other questions or problems, Please feel free tocontact us at We have professional team at your service, and your satisfaction is guaranteed. Tougard RM05 Front And Rear Dash Camera Installation 1. Before installation, please insert the memory card first, and format the memory card in camera menu first. This camera records video at high resolution. Be sure to use high speed memory card Class10 or above is recommended 16GB or 128GB card. We recommend benchmarking and making sure the device is working properly until it is installed in your vehicle. Make sure the lens is clean and nothing is blocking the lens. Make sure you are using the original power adapter power the device. Do not leave the device in direct sunlight for a long time or where temperatures may exceed 170°F (75°C) GPS function must be used with customized PS module. Please download "GXPlayer". (Please contact the seller for details.) Common problems and solutions The VCR shows that the memory is full, can't loop the video, etc. First, when a new memory card is used in the machine for the first time. Please format the memory card to FAT32 format on your computer and then format it on the camera, or the card was previously used on another type of device and needs to be formatted for use on this camera, or replace it with another new SANDISK32G Micro SD card. Check the sensitivity of G-sens. If the sensitivity is too high, the collision and shaking of the camera will trigger the G-sensor and the file will be locked. The locked files cannot be overwritten. If the locked files are accumulated, there will be no memory card to cycle through the records. (When parking protection is on, shaking can also cause too many stray files, which can also affect card reading and writing.) The device will automatically power on or off. Please format the memory card to FAT32 format on the computer, and then format it on the camera. Please check whether the parking protection function is on. With parking monitoring on, the device will automatically turn on and record when it detects a collision or shaking. Please check the connection status of the car charger. If the connection is loose, the power supply is unstable, 4. Check the connection status of the car charger. If the connection is loose and the power supply is unstable, the camera will turn on and off automatically. The rear camera does not display the image, please check the status of the rear camera carefully. Please check whether the AV plug is connected correctly and the cable is inserted correctly. Try to disconnect the camera, clean the connector with some medical alcohol, and reconnect it. Slow response of screen operation or button when recording Please check whether the memory card used is a high-speed card (Class10), if you use a non-high-speed card there may be problems such as missing seconds, video playback stuttering, screen displaying color streaks, and crashing. Reset the camera if necessary. Changes in the Setup menu cannot be saved. After changing the settings, please press the power button manually to turn off and the device settings will be saved. The device may not be able to save the settings when the device is turned off abnormally. Custom settings may be lost when the battery power is low. Even though the screen saver is set, the screen will light up again randomly. The power supply may be unstable, please try a different car charger. 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Adjust the mirror angle according to your driving position, make sure the mirror is right place and the view is clear.4. Adjust the lens angle of the camera, make sure you get best coverage over the hood and the road ahead, so you can record what happens.5. Connect the power to the camera and the cigarette lighter, hide the rest of the cable in the gap of the Interior trim board 6. The rear camera should be installed above the number plate, screw pad upward, connect the red power cable to the reverse lamp wire positive lead.7. Route the camera cable to the front of the car, and connect the rear camera to the main device. There are 2 pictures for reference.8.Start the engine and have a test run.1. Return to Main Interface2. Memory Card Status3. Video Resolution4. Recording Time5. Power Status6. Rearview Camera7. Mute Audio Recording8. Manual Lock9.Start/Stop Recording10. Picture in Picture Mode Switch11. 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Power Off: Press the power button manually to turn off the device. The device may not be able to save the settings when the device is turned off abnormally. Custom settings may be lost when the battery power is low. Even though the screen saver is set, the screen will light up again randomly. The power supply may be unstable, please try a different car charger. Recommended reading : What About TOGUARD RM05 12" 4K Front And Rear Dash Camera? How About The TOGUARD RM03 10" 3 Channel Touch Screen Mirror Camera How About Tougard's RM02 11" Adjustable Front And Rear View Mirror Camera TOGUARD CE13 1080P Mirror Dash Cam for Cars - Use Manual - Use Guide PDF. Documents: Go to download! User Manual - (English, French, Spanish, German, Italian, Japanese) User Manual - (Russian) User Manual.1. Clock/Time Setting2. Video Recording Mode3. Photo Mode4. Playback3. Manual Lock Current Video6. Mute Audio Recording7. Power OFF8. Format memory cardSet up and Installation:1. 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the beginning of the Portuguese dominance of the Spice trade and the Indian Ocean. 1509: The Portuguese king sends Diogo Lopes de Sequeira to find Malacca, the eastern terminus of Asian trade. After initially receiving Sequeira, Sultan Mahmud Shah captures and/or kills several of his men and attempts an assault on the four Portuguese ships, which escape.[7] The Javanese fleet is also destroyed in Malacca. 1509: Krishnadevaraya ascends the throne of Vijayanagara Empire. Afonso de Albuquerque 1509–1510: The 'great plague' in various parts of Tudor England.[8] 1510: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Malacca, the capital of the Sultanate of Malacca in present-day Malaysia. 1512: Copernicus writes Commentariolus, and proclaims the Sun the center of the Solar System. 1512: The southern part (historical core) of the Kingdom of Navarre is invaded by Castile and Aragon. 1512: Qutb Shahi dynasty, founded by Quli Qutb Mulk, rules Golconda Sultanate until 1687. 1512: The first Portuguese exploratory expedition was sent eastward from Malacca (in present-day Malaysia) to search for the 'Spice Islands' (Maluku) led by Francisco Serrão. Serrão is shipwrecked but struggles on to Hitu (northern Ambon) and wins the favour of the local rulers.[9] 1513: Machiavelli writes The Prince, a treatise about political philosophy 1513: The Portuguese mariner Jorge Álvares lands at Macau, China, during the Ming dynasty. 1513: Henry VIII defeats the French at the Battle of the Spurs. 1513: The Battle of Flodden Field in which invading Scots are defeated by Henry VIII's forces. 1513: Sultan Selim I ("The Grim") orders the massacre of Shia Muslims in Anatolia (present-day Turkey). 1513: Vasco Núñez de Balboa, in service of Spain arrives at the Pacific Ocean (which he called Mar del Sur) across the Isthmus of Panama. He was the first European to do so. 1514: The Battle of Orsha halts Muscovy's expansion into Eastern Europe. 1514: Dózsa rebellion (peasant revolt) in Hungary.Martin Luther initiated the Reformation with his Ninety-five Theses in 1517. 1514: The Battle of Chaldiran, the Ottoman Empire gains decisive victory against Safavid dynasty. 1515: Ascension of Francis I of France as King of France following the death of Louis XII. 1515: The Ottoman Empire wrests Eastern Anatolia from the Safavids after the Battle of Chaldiran. 1515: The Ottomans conquer the last beyliks of Anatolia, the Duklars and the Ramadanks. 1516–1517: The Ottomans defeat the Mamluks and gain control of Egypt, Arabia, and the Levant. 1517: The Sweating sickness epidemic in Tudor England.[10] 1517: The Reformation begins when Martin Luther posts his Ninety-five Theses in Saxony. 1518: The Treaty of London was a non-aggression pact between the major European nations. The signatories were Burgundy, France, England, the Holy Roman Empire, the Netherlands, the Papal States and Spain, all of whom agreed not to attack one another and to come to the aid of any that were under attack. 1518: Mir Chakar Khan Rind leaves Baluchistan and settles in Punjab. 1518: Leo Africanus, also known as al-Hasan ibn Muhammad al-Wazzan al-Fasi, an Andalusian Berber diplomat who is best known for his book Descriptione dell'Africa (Description of Africa), is captured by Spanish pirates; he is taken to Rome and presented to Pope Leo X. 1518: The dancing plague of 1518 begins in Strasbourg, lasting for about one month. 1519: Leonardo da Vinci dies of natural causes in May 2.Europe at the time of the accession of Charles V in 1519 1519: Wang Yangming, the Chinese philosopher and governor of Jiangxi province, describes his intent to use the firepower of the fo-lang-ji, a breach-loading Portuguese culverin, in order to suppress the rebellion of Prince Zhu Chenhao. 1519: Barbary pirates led by Hayreddin Barbarossa, a Turk appointed to ruling position in Algiers by the Ottoman Empire, raid Provence and Toulon in southern France. 1519: Death of Emperor Maximilian; Charles I of Austria, Spain, and the Low Countries becomes Emperor of Holy Roman Empire as Charles V. Holy Roman Emperor (ruled until 1556). 1519–1522: Spanish expedition commanded by Magellan and Elcano are the first to Circumnavigate the Earth. 1519–1521: Hernán Cortés leads the Spanish conquest of the Aztec Empire. Ferdinand Magellan led the first expedition that circumnavigated the globe in 1519–1522. 1520–1566: The reign of Suleiman the Magnificent marks the zenith of the Ottoman Empire. 1520: The first European diplomatic mission to Ethiopia, sent by the Portuguese, arrives at Massawa 9 April, and reaches the imperial encampment of Emperor Dawit II in Shewa 9 October. 1520: Vijayanagara Empire forces under Krishnadevaraya defeat the Adil Shahi under at the Battle of Raichur 1520: Sultan Al Mughayat Shah of Aceh begins an expansionist campaign capturing Daya on the west Sumatran coast (in present-day Indonesia), and the pepper and gold producing lands on the east coast. 1520: The Portuguese established a trading post in the village of Lamakera on the eastern side of Solor (in present-day Indonesia) as a transit harbour between Maluku and Malacca. 1521: Belgrade (in present-day Serbia) is captured by the Ottoman Empire. 1521: After building fortifications at Tuen Mun, the Portuguese attempt to invade Ming dynasty China, but are expelled by Chinese naval forces. 1521: Philippines encountered by Ferdinand Magellan. He was later killed in the Battle of Mactan in central Philippines in the same year. 1521: Jiajing Emperor ascended the throne of Ming dynasty, China. 1521: November, Ferdinand Magellan's expedition reaches Maluku (in present-day Indonesia) and after trade with Ternate returns to Europe with a load of cloves. 1521: Pati Unus leads the invasion of Malacca (in present-day Malaysia) against the Portuguese occupation. Pati Unus was killed in this battle, and was succeeded by his brother, Sultan Trenggana. 1522: Rhodes falls to the Ottomans of Suleiman the Magnificent.[11]Sack of Rome of 1527 by Charles V's forces (painting by Johannes Lingelbach) 1522: The Portuguese ally themselves with the rulers of Ternate (in present-day Indonesia) and begin construction of a fort.[9] 1522: August, Luso-Sundanese Treaty signed between Portugal and Sunda Kingdom granted Portuguese permit to build fortress in Sunda Kelapa. 1523: Sweden gains independence from the Kalmar Union. 1523: The Cacao bean is introduced to Spain by Hernán Cortés 1524–1525: German Peasants' War in the Holy Roman Empire. 1524: Giovanni da Verrazzano is the first European to explore the Atlantic coast of North America through South Carolina and Newfoundland. 1524: Ismail I, the founder of Safavid dynasty, dies and Tahmasp I becomes king.Gun-wielding Ottoman Janissaries and defending Knights of Saint John at the siege of Rhodes in 1522, from an Ottoman manuscript 1525: Timurid Empire forces under Babur defeat the Lodi dynasty at the First Battle of Panipat, end of the Delhi Sultanate. 1525: German and Spanish forces defeat France at the Battle of Pavia, Francis I of France is captured. 1526: The Ottomans defeat the Kingdom of Hungary at the Battle of Mohács. 1526: Mughal Empire, founded by Babur. 1527: Sack of Rome with Pope Clement VII escaping and the Swiss Guards defending the Vatican being killed. The sack of the city of Rome considered the end of the Italian Renaissance. 1527: Protestant Reformation begins in Sweden. 1527: The last ruler of Majapahit falls from power. This state (located in present-day Indonesia) was finally extinguished at the hands of the Demak. A large number of courtiers, artisans, priests, and members of the royalty moved east to the island of Bali; however, the power and the seat of government transferred to Demak under the leadership of Pangeran, later Sultan Fatah. 1527: June 22, The Javanese Prince Fatahillah of the Cirebon Sultanate successfully defeated the Portuguese armed forces at the site of the Sunda Kelapa Harbor. The city was then renamed Jayakarta, meaning "a glorious victory." This eventful day came to be acknowledged as Jakarta's Founding Anniversary. 1527: Mughal Empire forces defeat the Rajput led by Rana Sanga of Mewar at the Battle of Khanwa 1529: The Austrians defeat the Ottoman Empire at the siege of Vienna. 1529: Treaty of Zaragoza defined the meridian of Tordesillas attributing the Moluccas to Portugal and Philippines to Spain. 1529: Imam Ahmad Gurey defeats the Ethiopian Emperor Dawit II in the Battle of Shimbra Kure, the opening clash of the Ethiopian–Adal War. Spanish conquistadors with their Tlaxcallan allies fighting against the Otomies of Metztlitlan in present-day Mexico, a 16th-century codex 1531–1532: The Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church. 1531: The Inca Civil War is fought between the two brothers, Atahualpa and Huáscar. 1532: Francisco Pizarro leads the Spanish conquest of the Inca Empire. 1532: Foundation of São Vicente, the first permanent Portuguese settlement in the Americas. 1533: Anne Boleyn becomes Queen of England. 1533: Elizabeth Tudor is born. 1534: Jacques Cartier claims Canada for France. 1534: The Ottomans capture Baghdad from the Safavids. 1534: Affair of the Placards, where King Francis I becomes more active in repression of French Protestants. 1535: The Münster Rebellion, an attempt of radical, millennialist, Anabaptists to establish a theocracy, ends in bloodshed. 1535: The Portuguese in Ternate depose Sultan Tabariji (or Tabarijan) and send him to Portuguese Goa where he converts to Christianity and bequeaths his Portuguese godfather Jordo de Freitas the island of Ambon.[12] Hairun becomes the next sultan. 1536: Catherine of Aragon dies in Kimbolton Castle, in England.Territorial expansion of the Ottoman Empire under Suleiman (in red and orange) 1536: In England, Anne Boleyn is beheaded for adultery and treason. 1536: Establishment of the Inquisition in Portugal. 1536: Foundation of Buenos Aires (in present-day Argentina) by Pedro de Mendoza. 1537: The Portuguese establish Recife in Pernambuco, north-east of Brazil. 1537: William Tyndale's partial translation of the Bible into English is published, which would eventually be incorporated into the King James Bible. 1538: Gonzalo Jiménez de Quesada founds Bogotá. 1538: Spanish–Venetian fleet is defeated by the Ottoman Turks at the Battle of Preveza. 1539: Hernando de Soto explores inland North America. Nicolaus Copernicus 1540: The Society of Jesus, or the Jesuits, is founded by Ignatius of Loyola and six companions with the approval of Pope Paul III. 1540: Sher Shah Suri founds the Suri dynasty in South Asia, an ethnic Pashtun (Pathan) of the house of Sur, who supplanted the Mughal dynasty as rulers of North India during the reign of the relatively ineffectual second Mughal emperor Humayun. Sher Shah Suri decisively defeats Humayun in the Battle of Bilgram (May 17, 1540). 1541: Pedro de Valdivia founds Santiago in Chile. 1541: An Algerian military campaign by Charles V of Spain (Habsburg) is unsuccessful. 1541: Amazon River is encountered and explored by Francisco de Orellana. 1541: Capture of Buda and the absorption of the major part of Hungary by the Ottoman Empire. 1541: Sahib I Giray of Crimea invades Russia. 1542: The Italian War of 1542–1546 war resumes between Francis I of France and Emperor Charles V. This time Henry VIII is allied with the Emperor, while James V of Scotland and Sultan Suleiman I are allied with the French. 1542: Akbar The Great is born in the Rajput Umarkot Fort 1542: Spanish explorer Rup López de Villalobos named the island of Samar and Leyte Las Islas Filipinas honoring Philip II of Spain and became the official name of the archipelago. 1543: Ethiopian/Portuguese troops defeat the Adal army led by Imam Ahmad Gurey at the Battle of Wayna Daga; Imam Ahmad Gurey is killed at this battle. 1543: Copernicus publishes his theory that the Earth and the other planets revolve around the Sun 1543: The Nanban trade period begins after Portuguese traders make contact with Japan. 1544: The French defeat an Imperial-Spanish army at the Battle of Ceresole.Scenes of everyday life in Ming China, by Qiu Ying 1544: Battle of the Shirts in Scotland. The Frasers and Macdonalds of Clan Rannald fight over a disputed chieftship; reportedly, 5 Frasers and 8 Macdonalds survive. 1545: Songhai forces sack the Malian capital of Niani 1545: The Council of Trent meets for the first time in Trent (in northern Italy). 1546: Michelangelo Buonarroti is made chief architect of St. Peter's Basilica. 1546: Francis Xavier works among the peoples of Ambon, Ternate and Morotai (Moror) laying the foundations for a permanent mission. (to 1547) Henry VIII dies in the Palace of Whitehall on 28 January at the age of 55. 1547: Francis I dies in the Château de Rambouillet on 31 March at the age of 52. 1547: Edward VI becomes King of England and Ireland on 28 January and is crowned on 20 February at the age of 9. 1547: Emperor Charles V decisively dismantles the Schmalkaldic League at the Battle of Mühlberg. 1547: Grand Prince Ivan the Terrible is crowned Star of (All) Russia, therefortho becoming the first Russian tsar. 1548: Battle of Uedahara: Firearms are used for the first time on the battlefield in Japan, and Takeda Shingen is defeated by Murakami Yoshiaki. 1548: Askia Daoud, who reigned from 1548 to 1583, establishes public libraries in Timbuktu (in present-day Mali). 1548: The Ming dynasty government of China issues a decree banning all foreign trade and closes down all seaports along the coast; these Hai jin laws came during the Wokou wars with Japanese pirates. 1549: Tomé de Sousa establishes Salvador in Bahia, north-east of Brazil. 1549: Arya Penangsang with the support of his teacher, Sunan Kudus, avenges the death of Raden Kikin by sending an envoy named Rangku to kill Sunan Prawoto by Keris Kyai Santan Kober (in present-day Indonesia). The Islamic gunpowder empires: Mughal Army artillerymen during the reign of Jalaluddin Akbar 1550: The architect Mimar Sinan builds the Süleymaniye Mosque in Istanbul. 1550: Mongols led by Altan Khan invade China and besiege Beijing. 1550–1551: Valladolid debate concerning the human rights of the Indigenous people of the Americas. 1551: Fifth outbreak of sweating sickness in England. John Caius of Shrewsbury writes the first full contemporary account of the symptoms of the disease. 1551: North African pirates enslave the entire population of the Maltese island Gozo, between 5,000 and 6,000, sending them to Libya. 1552: Russia conquers the Khanate of Kazan in central Asia. 1552: Jesuit China Mission, Francis Xavier dies. 1553: Mary Tudor becomes the first queen regnant of England and restores the Church of England under Papal authority. 1553: The Portuguese found a settlement at Macau. 1554: Missionaries José de Anchieta and Manuel da Nóbrega establishes São Paulo, southeast Brazil. 1554: Princess Elizabeth is imprisoned in the Tower of London upon the orders of Mary I for suspicion of being involved in the Wyatt rebellion. 1555: The Muscovy Company is the first major English joint stock trading company. 1556: Publication in Venice of Delle Navigazioni et Viaggi (terzo volume) by Giovanni Battista Ramusio, secretary of Council of Ten, with plan La Terra de Hochelaga, an illustration of the Hochelaga.[13] 1556: The Shaanxi earthquake in China is history's deadliest known earthquake during the Ming dynasty. 1556: Georgius Agricola, the "Father of Mineralogy", publishes his De re metallica. 1556: Akbar defeats Hemu at the Second battle of Panipat. 1556: Russia conquers the Astrakhan Khanate. 1556–1605: During his reign, Akbar expands the Mughal Empire in a series of conquests (in the Indian subcontinent).Political map of the world in 1556 1556: Mir Chakar Khan Rind captures Delhi with Humayun. 1556: Pomponio Algerio, radical theologian, is executed by boiling in oil as part of the Roman Inquisition. 1557: Habsburg Spain declares bankruptcy. Philip II of Spain had to declare four state bankruptcies in 1557, 1560, 1575 and 1596. 1557: The Portuguese settle in Macau (on the western side of the Pearl River Delta across from present-day Hong Kong). 1557: The Ottomans capture Massawa, all but isolating Ethiopia from the rest of the world. 1558: Elizabeth Tudor becomes Queen Elizabeth I at age 25. 1558–1603: The Elizabethan era is considered the height of the English Renaissance. 1558–1583: Livonian War between Poland, Grand Principality of Lithuania, Sweden, Denmark and Russia. 1558: After 200 years, the Kingdom of England loses Calais to France. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: Sultan Hairun of Ternate (in present-day Indonesia) protests the Portuguese's Christianisation activities in his lands. Hostilities between Ternate and the Portuguese. The Mughal Emperor Akbar shoots the Rajput warrior Jaimal during the Siege of Chittorgarh in 1567 1560: Ottoman navy defeats the Spanish fleet at the Battle of Djerba. 1560: Elizabeth Bathory is born in Nyírbátor, Hungary. 1560: By winning the Battle of Okkehazama, Oda Nobunaga becomes one of the pre-eminent warlords of Japan. 1560: Jeanne d'Albret declares Calvinism the official religion of Navarre. 1560: Lazarus Church, Macau 1561: Sir Francis Bacon is born in London. 1561: The fourth battle of Kawanakajima between the Uesugi and Takeda at Hachimanbara takes place. 1561: Guido de Bres draws up the Belgic Confession of Protestant faith. 1562: Mughal emperor Akbar reconciles the Muslim and Hindu factions by marrying into the powerful Rajput Hindu caste. 1562–1598: French Wars of Religion between Catholics and Huguenots. 1562: Massacre of Wassy and Battle of Dreux in the French Wars of Religion. 1562: Portuguese Dominican priests build a palm-trunk fortress which Javanese Muslims burned down the following year. The fort was rebuilt from more durable materials and the Dominicans commenced the Christianisation of the local population.[12] 1563: Plague outbreak claimed 80,000 people in Elizabethan England. In London alone, over 20,000 people died of the disease. 1564: Galileo Galilei born on February 15 1564: William Shakespeare baptized 26 April 1565: Deccan sultanates defeat the Vijayanagara Empire at the Battle of Talikota. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Estácio de Sá establishes Rio de Janeiro in Brazil. 1565: The Hospitallers, a Crusading Order, defeat the Ottoman Empire at the siege of Malta (1565). 1565: Miguel López de Legazpi establishes in Cebu the first Spanish settlement in the Philippines started a period of Spanish colonization that would last over three hundred years. 1565: Spanish navigator Andrés de Urdaneta discovers the maritime route from Asia to the Americas across the Pacific Ocean, also known as the tomaníavej. 1565: Royal Exchange is founded by Thomas Gresham. 1566: Suleiman the Magnificent, ruler of the Ottoman Empire, dies on September 7, during the battle of Szigetvár. 1566: Siege of Valenciennes during the Dutch War of Independence in 1567 1566–1648: Eighty Years' War between Spain and the Netherlands. 1566: Da le Balie Contrade d'Oriente, composed by Cipriano de Rore. 1567: After 45 years' reign, Jiajing Emperor died in the Forbidden City. Longjing Emperor ascended the throne of Ming dynasty. 1567: Mary, Queen of Scots, is imprisoned by Elizabeth I. 1568: The Transylvanian Diet, under the patronage of the prince John Sigismund Zápolya, the former king of Hungary, inspired by the teachings of Ferenc Dávid, the founder of the Unitarian Church of Transylvania, promulgates the Edict of Torda, the first law of freedom of religion and of conscience in the World. 1568–1571: Morisco Revolt in Spain. 1568–1600: The Azuchi-Momoyama period in Japan. 1568: Hadiwijaya sent his adopted son and son-in-law Sutawijaya, who would later become the first ruler of the Mataram dynasty of Indonesia, to kill Arya Penangsang. 1569: Rising of the North in England. 1569: Mercator 1569 world map published by Gerard Mercator. 1569: The Polish–Lithuanian Commonwealth is created with the Union of Lublin which lasts until 1795. 1569: Peace treaty signed by Sultan Hairun of Ternate and Governor Lopez De Mesquita of Portugal. The Battle of Lepanto 1570: Ivan the Terrible, tsar of Russia, orders the massacre of inhabitants of Novgorod. 1570: Pope Pius V issues Regnans in Excelsis, a papal bull excommunicating all who obeyed Elizabeth I and calling on all Catholics to rebel against her. 1570: Sultan Hairun of Ternate (in present-day Indonesia) is killed by the Portuguese.[12] Babullah becomes the next Sultan. 1570: 20,000 inhabitants of Nicosia in Cyprus were massacred and every church, public building, and palace was looted. Cyprus fell to the Ottoman Turks the following year. 1571: Pope Pius V completes the Holy League as a united front against the Ottoman Turks, responding to the fall of Cyprus to the Ottomans. 1571: The Spanish-led Holy League navy destroys the Ottoman Empire navy at the Battle of Lepanto. 1571: Crimean Tatars attack and sack Moscow, burning everything but the Kremlin. 1571: American Indians kill Spanish missionaries in what would later be Jamestown, Virginia. 1571: Spanish conquistador Miguel López de Legazpi establishes Manila, Philippines as the capital of the Spanish East Indies. 1572: Brielle is taken from Habsburg Spain by Protestant Watergeuzen in the Capture of Brielle, in the Eighty Years' War. 1572: Spanish conquistadores apprehend the last Inca leader Tupak Amaru at Vilcabamba, Peru, and execute him in Cuzco. 1572: Jeanne d'Albret dies aged 43 and is succeeded by Henry of Navarre. 1572: Catherine de' Medici instigates the St. Bartholomew's Day massacre which takes the lives of Protestant leader Gaspard de Coligny and thousands of Huguenots. The violence spreads from Paris to other parts of the countryside. 1572: first edition of the epic The Lusads of Luiz Vaz de Camões, three years after the author returned from the East.[14] 1572: The 9 years old Taizū, Zhu Yijun asceded the throne of Ming dynasty, known as Wanli Emperor. 1573: After heavy losses on both sides the siege of Haarlem ends in a Spanish victory.St. Bartholomew's Day massacre of French Protestants 1574: in the Eighty Years' War the capital of Zeeland, Middelburg declares for the Protestants. 1574: After a siege of 4 months the siege of Leiden ends in a comprehensive Dutch rebel victory. 1575: Oda Nobunaga finally captures Nagashima fortress. 1575: Following a five-year war, the Ternateans under Sultan Babullah defeated the Portuguese. 1576: Tahmasp I, Safavid shah, dies. 1576: The Battle of Haldighati is fought between the ruler of Mewar, Maharana Pratap and the Mughal Empire's forces under Emperor Akbar led by Raja Man Singh. 1576: Sack of Antwerp by badly paid Spanish soldiers. 1577–1580: Francis Drake circles the world. 1577: Ki Ageng Pemanahan built his palace in Pasargade or Kotagede. 1578: King Sebastian of Portugal is killed at the Battle of Alcazarquivir. 1578: The Portuguese establish a fort on Tidore but the main centre for Portuguese activities in Maluku becomes Ambon.[12] 1578: Sonam Gyatso is conferred the title of Dalai Lama by Tumed Mongol ruler, Altan Khan. Recognised as the reincarnation of two previous Lamas, Sonam Gyatso becomes the third Dalai Lama in the lineage.[15] 1578: Governor-General Francisco de Sande officially declared war against Brunei in 1578, starting the Castilian War of 1578. 1579: The Union of Utrecht invites the northern Netherlands, a foundation for the later Dutch Republic. 1579: The Union of Arras unifies the southern Netherlands, a foundation for the later states of the Spanish Netherlands, the Austrian Netherlands and Belgium.The Irish Gaelic chieftain's feast, from The Image of Ireland 1579. The British navigator Sir Francis Drake passes through Maluku and transit in Ternate on his circumnavigation of the world. The Portuguese establish a fort on Tidore but the main centre for Portuguese activities in Maluku becomes Ambon.[16] The fall of Spanish Armada 1580: Drake's royal reception after his attacks on Spanish possessions influences Philip II of Spain to build up the Spanish Armada. English ships in Spanish harbours are impounded. 1580: Spain unifies with Portugal under Philip II. The struggle for the throne of Portugal ends the Portuguese Empire. The Spanish and Portuguese crowns are united for 60 years, i.e. until 1640. 1580–1587: Nagasaki comes under control of the Jesuits. 1581: Dutch Act of Abjuration, declaring abjuring allegiance to Philip II of Spain. 1581: Bayinnaung dies at the age of 65. 1582: Oda Nobunaga commits seppuku during the Honnō-ji Incident coup by his general, Akechi Mitsuhide. 1582: Pope Gregory XIII issues the Gregorian calendar. The last day of the Julian calendar was Thursday, 4 October 1582 and this was followed by the first day of the Gregorian calendar, Friday, 15 October 1582 1582: Yermak Timofeyevich conquers the Siberia Khanate on behalf of the Stroganovs. 1583: Denmark builds the world's first theme park, Bakken. 1583: Death of Sultan Babullah of Ternate. 1584–1585: After the siege of Antwerp, many of its merchants flee to Amsterdam. According to Luc-Normand Telier, "At its peak, between 1510 and 1557, Antwerp concentrated about 40% of the world trade...It is estimated that the port of Antwerp was earning the Spanish crown seven times more revenues than the Americas." [17] 1584: Ki Ageng Pemanahan died. Sultan Pajang raised Sutawijaya, son of Ki Ageng Pemanahan as the new ruler in Mataram, titled "Loring Ngabehi Market" (because of his home in the north of the market). 1585: Akbar annexes Kashmir and adds it to the Kabul SubahPortuguese fusta in India from a book by Jan Huygen van Linschoten 1585: Colony at Roanoke founded in North America. 1585–1604: The Anglo-Spanish War is fought on both sides of the Atlantic. 1585: Queen of Scots is executed by Elizabeth I. 1587: The reign of Abbas I marks the zenith of the Safavid dynasty. 1587: Troops that would invade Pajang Mataram Sultanate storm ravaged the eruption of Mount Merapi. Sutawijaya and his men survived. 1588: Mataram into the kingdom with Sutawijaya as Sultan, titled "Senapati Ingalaga Sayidin Panatagama" means the warlord and cleric Manager Religious Law. 1588: England repulses the Spanish Armada. 1589: Spain repulses the English Armada. 1589: Catherine de' Medici dies at aged 69. Abu'l-Fazl ibn Mubarak presenting Akbarnama to Mughal Azam Akbar. Mughal miniature 1590: Siege of Odawara: the Go-Hōjō clan surrender to Toyotomi Hideyoshi, and Japan is unified. 1591: Gazi Giray leads a huge Tatar expedition against Moscow. 1591: In Mali, Moroccan forces of the Sultan Ahmad al-Mansur led by Judar Pasha defeat the Songhai Empire at the Battle of Tondibi. 1592–1593: John Stow reports 10,675 plague deaths in London, a city of approximately 200,000 people. 1592–1598: Korea, with the help of Ming dynasty China, repels two Japanese invasions. 1593–1606: The Long War between the Habsburg monarchy and the Ottoman Turks. 1594: St. Paul's College, Macau, founded by Alessandro Valignano. 1595: First Dutch expedition to Indonesia sets sail for the East Indies with two hundred and forty-nine men and sixty-four cannons led by Cornelis de Houtman.[18] 1596: Birth of René Descartes. 1596: June, de Houtman's expedition reaches Banten the main pepper port of West Java where they clash with both the Portuguese and Indonesians. It then sails east along the north coast of Java losing twelve crew to a Javanese attack at Sidayu and killing a local ruler in Madura.[18] 1597: Romeo and Juliet is published. 1597: Cornelis de Houtman's expedition returns to the Netherlands with enough spices to make a considerable profit.[18] 1598: The Edict of Nantes ends the French Wars of Religion. 1598: Abbas I moves Safavids capital from Qazvin to Isfahan in 1598. 1598–1613: Russia descends into anarchy during the Time of Troubles. 1598: The Portuguese require an armada of 90 ships to put down a Solorese uprising.[12] (to 1599) 1598: More Dutch fleets leave for Indonesia and most are profitable.[18]1598: period screen depicting the Battle of Sekigahara 1598: The province of Santa Fe de Nuevo México is established in northern New Spain. The region would later become a territory of Mexico, the New Mexico Territory in the United States, and the US State of New Mexico. 1598: Death of Toyotomi Hideyoshi, known as the unifier of Japan. 1599: The Mali Empire is defeated at the Battle of Jenné. 1599: The van Neck expedition returns to Europe. The expedition makes a 400 per cent profit.[18] (to 1600) 1599: March, Leaving Europe the previous year, a fleet of eight ships under Jacob van Neck was the first Dutch fleet to reach the 'Spice Islands' of Maluku.[18] 1600: Giordano Bruno is burned at the stake for heresy in Rome.Siege of Filakovo castle during the Long Turkish War 1600: Battle of Sekigahara in Japan. End of the Warring States period and beginning of the Edo period. 1600: The Portuguese win a major naval battle in the bay of Ambon.[19] Later in the year, the Dutch join forces with the local Hituese in an anti-Portuguese alliance, in return for which the Dutch would have the sole right to purchase spices from Hitu.[19] 1600: Elizabeth I grants a charter to the British East India Company beginning the English advance in Asia. 1600: Michael the Brave unifies the three principalities: Wallachia, Moldavia and Transylvania after the Battle of Selișmară from 1599. For later events, see Timeline of the 17th century. Polybius' The Histories translated into Italian, English, German and French.[20] Mississippiian culture disappears. Medallion rug, variant Star Ushak style, Anatolia (modern Turkey), is made. It is now kept at the Saint Louis Art Museum. Hernan Cortes (1485–1547) Henry VIII. (1491–1547) King of England and Ireland Don Fernando Alvarez de Toledo (1507–1582) Suleiman the Magnificent, Sultan of the Ottoman Empire (1520–1566) Ivan IV the Terrible (1530–1566) Oda Nobunaga (1534–1582) Sir Francis Drake (c. 1540 – 1596) Alberico Gentili, (1552–1608) the Father of international law Philip II of Spain, King of Spain (1556–1598) Akbar the Great, Mughal emperor (1556–1605) Related article: List of 16th century inventions. The Columbian Exchange brought many plants, animals and diseases to the Old and New Worlds. Introduction of the spinning wheel revolutionizes textile production in Europe. The letter ɹ is introduced into the English alphabet. 1500: First portable watch is created by Peter Henlein of Germany.The Iberian Union in 1598, under Philip II, King of Spain and Portugal 1513: Juan Ponce de León sights Florida and Vasco Núñez de Balboa sights the eastern edge of the Pacific Ocean. 1519–1522: Ferdinand Magellan and Juan Sebastián Elcano led the first circumnavigation of the world. 1519–1540: In America, Hernando de Soto expeditions map the Gulf of Mexico coastline and ways. 1525: Modern square root symbol (√) 1540: Francisco Vázquez de Coronado sights the Grand Canyon. 1541–42: Francisco de Orellana sails the length of the Amazon River. 1542–43: Firearms are introduced into Japan by the Portuguese. 1543: Copernicus publishes his theory that the Earth and the other planets revolve around the Sun 1545: Theory of complex numbers is first developed by Gerolamo Cardano of Italy. 1558: Camera obscura is first used in Europe by Giambattista della Porta of Italy. 1559–1562: Spanish settlements in Alabama/Florida and Georgia confirm dangers of hurricanes and local native warring tribes. 1565: Spanish settlers outside New Spain (Mexico) colonize Florida's coastline at St. Augustine. 1565: Invention of the graphite pencil (in a wooden holder) by Conrad Gessner. Modernized in 1812. 1568: Gerardus Mercator creates the first Mercator projection map. 1572: Supernova SN 1572 is observed by Tycho Brahe in the Milky Way. 1582: Gregorian calendar is introduced in Europe by Pope Gregory XIII and adopted by Catholic countries. c. 1583: Galileo Galilei of Pisa, Italy identifies the constant swing of a pendulum, leading to development of reliable timekeepers. 1585: earliest known reference to the 'sailing carriage' in China. 1589: William Lee invents the stocking frame. 1591: First flush toilet is introduced by Sir John Harrington of England, the design published under the title "The Metamorphosis of Ajax". 1593: Galileo Galilei invents a thermometer. 1596: William Barents discovers Spitsbergen. 1597: Opera in Florence by Jacopo Peri. Entertainment in the 16th century ~ a b Modern reference works on the period tend to follow the introduction of the Gregorian calendar for the sake of clarity; thus NASA's lunar eclipse catalogue states "The Gregorian calendar is used for all dates from 1582 Oct 15 onwards. Before that date, the Julian calendar is used". For dates after 15 October 1582, care must be taken to avoid confusion of the two styles. ~ de Vries, Jan (14 September 2009). "The limits of globalization in the early modern world". The Economic History Review. 63 (3): 710–733. CitSeerX 10.1.1.186.8662. doi:10.1111/j.1468-0289.2009.00497.x. JSTOR 40929823. SZCID 219969369. SSRN 1635517. ~ Singh, Sarina; Lindsay Brown; Paul Clammer; Rodney Cocks; John Mock (2008). Pakistan & the Karakoram Highway. Vol. 7, illustrated. Lonely Planet. p. 137. ISBN 978-1-74104-542-0. Retrieved 23 August 2010. ~ Babur (2006). Babur Nama. Penguin Books. p. vii. ISBN 978-0-14-400149-1. ~ "16th Century Timeline (1501 to 1600)". smltha.com. 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