

# CD

## Compact disc

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The compact disc (CD) is a digital optical disc data storage format co-developed by Philips and Sony to store and play digital audio recordings. It employs the Compact Disc Digital Audio (CD-DA) standard and is capable of holding of uncompressed stereo audio. First released in Japan in October 1982, the CD was the second optical disc format to reach the market, following the larger LaserDisc (LD). In later years, the technology was adapted for computer data storage as CD-ROM and subsequently expanded into various writable and multimedia formats. As of 2007, over 200 billion CDs (including audio CDs, CD-ROMs, and CD-Rs) had been sold worldwide.

Standard CDs have a diameter of 120 millimetres (4.7 inches) and typically hold up to 74 minutes of audio or approximately 650 MiB (681,574,400 bytes...

## Candela

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Candela (symbol: cd) is the SI unit of luminous intensity. It measures the luminous power per unit solid angle emitted in a particular direction. A common wax candle has a luminous intensity of roughly 1 cd.

The word candela is Latin for candle. The old name "candle" is still sometimes used, as in foot-candle and the modern definition of candlepower.

## České dráhy

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The company was established in January 1993, shortly after the dissolution of Czechoslovakia, as a successor of the Czechoslovak State Railways. It is a member of the International Railway Union (UIC Country Code for the Czech Republic is 54), the Community of European Railway and Infrastructure Companies, and the Organization for Cooperation of Railways. With twenty-four thousand employees, ČD Group is the fifth largest Czech company by the number of employees.

## The Five Ages of the Universe

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## CD-R

*times. CD-R discs (CD-Rs) are readable by most CD readers manufactured prior to the introduction of CD-R, unlike CD-RW discs. Originally named CD Write-Once*

CD-R (Compact disc-recordable) is a digital optical disc storage format. A CD-R disc is a compact disc that can only be written once and read arbitrarily many times.

CD-R discs (CD-Rs) are readable by most CD readers manufactured prior to the introduction of CD-R, unlike CD-RW discs.

## CD-ROM

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A CD-ROM (, compact disc read-only memory) is a type of read-only memory consisting of a pre-pressed optical compact disc that contains data computers can read, but not write or erase. Some CDs, called enhanced CDs, hold both computer data and audio with the latter capable of being played on a CD player, while data (such as software or digital video) is only usable on a computer (such as ISO 9660 format PC CD-ROMs).

During the 1990s and early 2000s, CD-ROMs were popularly used to distribute software and data for computers and fifth generation video game consoles. DVDs as well as downloading started to replace CD-ROMs in these roles starting in the early 2000s, and the use of CD-ROMs for commercial software is now rare.

## Sega CD

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The Sega CD, known as Mega-CD in most regions outside North America and Brazil, is a CD-ROM accessory and format for the Sega Genesis produced by Sega as part of the fourth generation of video game consoles. Originally released in Japan on December 12, 1991, it came to North America on October 15, 1992, and the rest of the world in 1993. The Sega CD plays CD-based games and adds hardware functionality such as a faster CPU and a custom graphics chip for enhanced sprite scaling and rotation. It can also play audio CDs and CD+G discs.

Sega sought to match the capabilities of the competing PC Engine CD-ROM<sup>2</sup> System, and partnered with JVC to design the Sega CD. Sega refused to consult with their American division until the project was complete, fearful of leaks. The Sega CD was redesigned several...

## CD-i

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The Compact Disc-Interactive (CD-I, later CD-i) is a digital optical disc data storage format as well as a hardware platform, co-developed and marketed by Dutch company Philips and Japanese company Sony. It was created as an extension of CDDA and CD-ROM and specified in the Green Book specifications, co-developed by Philips and Sony, to combine audio, text and graphics. The two companies initially expected to impact the education/training, point of sale, and home entertainment industries, but the CD-i is largely remembered today for its video games.

CD-i media physically have the same dimensions as CD, but with up to 744 MB of digital data storage, including up to 72 minutes of full motion video. CD-i players were usually standalone boxes that connect to a standard television; some less common...

## CD Video

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CD Video (also known as CDV, CD-V, or CD+V) was a format of optical media disc that was introduced in 1987 that combines the technologies of standard compact disc and LaserDisc. CD-V discs are the same size as a standard 12 cm (4.7 in) audio CD, and contain up to 20 minutes' worth of CD audio that can be played on any audio CD player. It also contains up to 5 minutes of LaserDisc video information with digital CD-quality sound, which can be played back on a newer LaserDisc player capable of playing CD-V discs or CD-V-only players.

The "CD Video" brand was also used to market some 20 cm (7.9 in) and 30 cm (12 in) LaserDiscs which included a digital soundtrack but no CD-compatible content.

## CD single

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A CD single is a music single in the form of a compact disc (CD). Originally the CD single standard (as defined in the Red Book) was an 8 cm (3-inch) "mini CD" (CD3); later on the term referred to any single recorded onto a CD of any size, particularly the 12 cm (5-inch) "full-size" disc (CD5). From a technical viewpoint, a CD single is identical to any other audio CD. The format started gaining popularity in the early 1990s, but quickly declined in the early and mid 2000s, in favor of digital downloaded singles and CD albums.

Commercially released CD singles can vary in length from two songs (an A side and B side, in the tradition of 7-inch 45-rpm records) up to six songs like an EP, which would be marketed as a maxi single in some regions. Some contain multiple mixes of one or more songs...

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