THE TELEVISION

INDUSTRIES OF INDIA - SOURCE COMPANION

This companion lists every source cited in *The Television* (GICS 25201010, Consumer Electronics), with its full reference, the level at which it was actually consulted, and where in the book it carries weight. Two principles governed the manuscript: no claim rests on a source that was only located but not read, and market figures from commercial research firms are reported as those firms' estimates, attributed in the text. Bracketed numbers in the book body resolve to the entries below.

Reading-status legend. *Full text fetched and read*: the complete source was retrieved and its relevant passages read. *Excerpts / abstract read*: only excerpts, an abstract, or a registry summary was read; the entry lists exactly what was seen, and no claim in the book exceeds it. *Verified against primary source*: a flagged entry later checked directly against the primary document, with the check dated.

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[1]

Wikipedia, "History of television" — https://en.wikipedia.org/wiki/History_of_television (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: Selenium and the Spinning Disc; Zworykin, Sarnoff and the RCA Machine; The War and the Restart; The Camera's Side: Emitrons and Orthicons; Going Public: Berlin, Alexandra Palace, Flushing Meadows; The Boom: America Moves Into the Living Room; The Colour Wars

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[2]

Wikipedia, "Mechanical television" — https://en.wikipedia.org/wiki/Mechanical_television (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: The Televisor Craze; Baird, Jenkins and the Decade of the Disc

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[3]

Wikipedia, "Philo Farnsworth" — https://en.wikipedia.org/wiki/Philo_Farnsworth (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: Farnsworth: The Farm Boy Who Saw the Rows; Zworykin, Sarnoff and the RCA Machine; The Camera's Side: Emitrons and Orthicons; The Event: When the Whole World Watched

[4]

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Cited in: The Televisor Craze; Baird, Jenkins and the Decade of the Disc

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[5]

Wikipedia, "Vladimir K. Zworykin" — https://en.wikipedia.org/wiki/Vladimir_Zworykin (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: Selenium and the Spinning Disc; Zworykin, Sarnoff and the RCA Machine

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[6]

Wikipedia, "Cathode-ray tube" — https://en.wikipedia.org/wiki/Cathode-ray_tube (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: Anatomy of a Tube; The War and the Restart; The Death of the Tube; The Price of a Window

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[7]

Wikipedia, "Television" — https://en.wikipedia.org/wiki/Television (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: The Box in the Corner; Baird, Jenkins and the Decade of the Disc; Going Public: Berlin, Alexandra Palace, Flushing Meadows; The Air: Antennas, Towers and the Map in the Sky; The Cabinet: Television as Furniture; The Ledger: An Industry Counted; The Set in the World; The Second Screen

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[8]

Wikipedia, "Color television" — https://en.wikipedia.org/wiki/Color_television (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: The War and the Restart; The Colour Wars; The Price of a Window

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[9]

Wikipedia, "Plasma display" — https://en.wikipedia.org/wiki/Plasma_display (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: The Liquid Crystal: From Watch Faces to Walls; Plasma: The Beautiful Loser; The Death of the Tube; The Price of a Window

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[10]

Wikipedia, "OLED" — https://en.wikipedia.org/wiki/OLED (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: The Emissive Pixel: OLED and the Screen That Is the Lamp

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[11]

Wikipedia, "Trinitron" — https://en.wikipedia.org/wiki/Trinitron (full page fetched 2026-11-01)

Reading status: Full text fetched and read
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[12]

Wikipedia, "Remote control" — https://en.wikipedia.org/wiki/Remote_control (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: The Clicker: The Smallest Machine in the Room; Remote, Cable, Satellite: The Set Escapes the Broadcast

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[13]

Wikipedia, "NTSC" — https://en.wikipedia.org/wiki/NTSC (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: The Colour Wars; Bottlenecks: Indium, Cycles and Standards

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[14]

Wikipedia, "Liquid-crystal display television" — https://en.wikipedia.org/wiki/Liquid-crystal_display_television (full page fetched 2026-11-01)

Reading status: Full text fetched and read
Cited in: The Liquid Crystal: From Watch Faces to Walls

[15]

Display Daily (citing Omdia), "Global TV Market Shows Signs of Recovery as Samsung Maintains Dominance" — https://displaydaily.com/global-tv-market-shows-signs-of-recovery-as-samsung-maintains-dominance/ (excerpts via search 2026-11-01): 2024 shipments 208.83M units; Samsung No.1 19th year, 28.3% share; LG OLED 3.18M units, 52.4% OLED share, 12th year; TCL 28.98M / 13.9%; Hisense 12.3% (25.65M).

Reading status: Excerpts / abstract read
Cited in: Makers: The League Table and What It Hides; The Ledger: An Industry Counted; The Price of a Window

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[16]

Counterpoint Research, "Global Premium TV Market Grew 51% YoY in Q4 2024" — https://counterpointresearch.com/en/insights/global-premium-tv-market-grew-51-yoy-in-q4-2024-samsung-leads-tcl-surpasses-lg-to-take-second-spot (excerpts via search): annual 2024 TV shipments ~230M units +2% YoY; Q4 61M; Q4 unit shares Samsung 16%, TCL 14%, Hisense 12%, LG 10%; premium shipments +38% FY24.

Reading status: Excerpts / abstract read
Cited in: Makers: The League Table and What It Hides; The Ledger: An Industry Counted; The Price of a Window; The Second Screen

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[17]

Pulse/Maeil (citing Omdia, Feb 2025) — https://pulse.mk.co.kr/news/english/11248623 (excerpts): China brands (TCL+Hisense+Xiaomi) 31.3% of 2024 shipments vs Korea (Samsung+LG) 28.4%; China 24.4% in 2020; Korea 33.4% (2020) to 28.4% (2024). Revenue shares: Samsung 28.3%, LG 16.1%, TCL 12.4%, Hisense 10.5%, Sony 5.4%.

Reading status: Excerpts / abstract read
Cited in: Makers: The League Table and What It Hides; The Ledger: An Industry Counted; The Set in the World

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[18]

AVC Revo via chinabaogao.com, 2025 TV panel industry review — https://www.chinabaogao.com/jingzheng/202602/778662.html (excerpts): 2025 global TV panel shipments 257.8M (+2.9%); shares BOE 26%, CSOT 22%, HKC 15%, INX 15%, AUO 7%; shipments BOE 68.1M, CSOT 58.7M, HKC 38.2M, INX 37.6M, AUO 18.4M, Sharp 11.3M, LGD 6.4M, SDC 1.2M.

Reading status: Excerpts / abstract read
Cited in: Motherglass, Generations and the Crystal Cycle; Makers: The League Table and What It Hides; The Ledger: An Industry Counted

[19]

AVC Revo via QQ News (Jan 2026) — https://news.qq.com/rain/a/20260123A04O1X00 (excerpts): 2025 panel shipments 257.8M +2.9%, area 191.0M m2 +4.3%; mainland China makers 69% share (+5pt); 98/100-inch combined ~1.9M units +47.1%.

Reading status: Excerpts / abstract read
Cited in: Motherglass, Generations and the Crystal Cycle; The Ledger: An Industry Counted; The Future of the Television; The Box in the Corner, Once More

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[20]

Hisense press release (citing Omdia), Feb 2025 — https://www.prnewswire.com/news-releases/hisense-tv-retains-global-no2-ranking-in-2024-and-leads-the-100-inch-tv-market-worldwide-302378898.html (excerpts): Hisense 29.14M units 2024 = 14% share, No.2 2022-2024; No.1 in 100-inch+ 2023-24.

Reading status: Excerpts / abstract read
Cited in: Makers: The League Table and What It Hides

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[21]

The Business Research Company via GlobeNewswire, "Televisions Global Market Report 2024" — https://www.globenewswire.com/news-release/2024/01/26/2817733/28124/en/ (excerpts): TV market $87.97B (2023) to $91.48B (2024), forecast $104.34B by 2028 (forecasts labelled).

Reading status: Excerpts / abstract read
Cited in: The Ledger: An Industry Counted

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[22]

Technavio, Television Market 2025-2029 — https://www.technavio.com/report/television-market-industry-analysis (excerpts): incremental growth USD 73.1B 2025-2029 at 8.2% CAGR (forecast); APAC largest region.

Reading status: Excerpts / abstract read
Cited in: The Ledger: An Industry Counted

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[23]

U.S. Census Bureau, "History Stories: Technology adoption" (Sept 2023) — https://www.census.gov/about/history/stories/monthly/2023/september-2023.html (excerpts via search): 1950

Census 5,030,270 TV households (9%); 65% by 1960 (Census story), ~95% by 1970; RTMA named Sarnoff "Father of Television" 1950; Farnsworth sold company 1951; ~3/4 of sets royalty-free RCA.

Reading status: Excerpts / abstract read
Cited in: The Boom: America Moves Into the Living Room

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[24]

Library of Congress research guide, "Television" — https://guides.loc.gov/american-women-moving-image/television (excerpt): 9% of US households 1950, 90% by 1960.

Reading status: Excerpts / abstract read
Cited in: The Boom: America Moves Into the Living Room; The Ledger: An Industry Counted

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[25]

West Michigan Broadcasting history, "Cable TV" — https://www.westmb.org/Exhibits/E_Cable_TV.html (excerpts): Ed Parsons, Astoria, Nov 1948 rooftop antenna for KRSC; coaxial runs downtown from Feb 1949; Mahanoy City rival claim.

Reading status: Excerpts / abstract read
Cited in: Remote, Cable, Satellite: The Set Escapes the Broadcast; The Signal Economy: What the Set Sells After It Is Sold

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[25a]

Cambridge University Press chapter, "The First Television Era" (doi:10.1017/cbo9780511619717.017) — (excerpt via search): 60,000 US sets July 1947 (NBC estimate); late-1948 prices $100-$4,100, average $375; TV spread faster than radio in first decade.

Reading status: Excerpts / abstract read
Cited in: The Boom: America Moves Into the Living Room

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[26]

NASA History, "Telstar Opened the Era of Global Satellite Television" — https://www.nasa.gov/history/telstar-opened-era-of-global-satellite-television/ (excerpts): Telstar 1 launched July 10 1962, 171 lb sphere; first live TV relay (flag, Andover ME to France); ~18-minute availability windows.

Reading status: Excerpts / abstract read
Cited in: The Programme: What the Hardware Was For

[27]

NPR, "From the Archives: Cronkite Live Via Satellite" — https://www.npr.org/2009/07/18/106775666/from-the-archives-cronkite-live-via-satellite (excerpts): July 23 1962 first formal transatlantic exchange; Cronkite/Dimbleby; ground stations Andover, Pleumeur-Bodou, Goonhilly Downs.

Reading status: Excerpts / abstract read
Cited in: The Programme: What the Hardware Was For

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[28]

Broadcasting Magazine (Apr 14 1952), FCC Sixth Report lift of freeze — https://www.worldradiohistory.com/Archive-All-BC/Broadcasting-Magazine/BC-1952/BC-1952-04-14-Pt-II-TV-Freeze-Lift.pdf (excerpts): freeze order Sept 30 1948; lifted Apr 14 1952; 2,053 assignments / 1,291 communities; 108 VHF stations on air.

Reading status: Excerpts / abstract read
Cited in: The Air: Antennas, Towers and the Map in the Sky; The Boom: America Moves Into the Living Room

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[29]

Wikipedia, "Sony TV8-301" — https://en.wikipedia.org/wiki/Sony_TV8-301 (full page fetched): world's first non-projection all-transistor TV, 8-inch, 1960-1962, "frail little baby".

Reading status: Full text fetched and read
Cited in: The Transistor Coup, or How Japan Took the Set; The Cabinet: Television as Furniture

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[30]

Sony corporate history (Sony.com) — https://www.sony.com/en/SonyInfo/CorporateInfo/History/SonyHistory/1-03.html (excerpts via search): Ibuka 1952 trip; Western Electric transistor licence $25,000 (9M yen); MITI scepticism; Morita finalised contract August 1953. Corroborated by J. Stage Historia Scientiarum paper (jstage.jst.go.jp/article/historiascientiarum/26/2/26_112).

Reading status: Excerpts / abstract read
Cited in: The Transistor Coup, or How Japan Took the Set

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Wikipedia, "Liquid-crystal display" — https://en.wikipedia.org/wiki/Liquid-crystal_display (full page fetched 2026-11-01): Reinitzer 1888; Lehmann 1904; Fréedericksz 1927; Williams domains 1962; Heilmeier DSM

1964/68; Lechner TFT concept 1968; TN patent Dec 4 1970 (Helfrich/Schadt, Hoffmann-La Roche), Fergason US 1971; Gruen Teletime 1972; Sharp calculators 1973; Brody TFT-LCD 1973 Westinghouse, "active matrix" 1975; Epson TV Watch 1982, ET-10 1984; Citizen 2.7-inch TFT 1984; Sharp 14-inch TFT 1988; Sharp wall-mount LCD TV 1992; IPS 1990/Hitachi 1992; TN physics; colour-filter photolithography, 40 nm pigment.

Reading status: Full text fetched and read
Cited in: The Liquid Crystal: From Watch Faces to Walls; Anatomy of a Panel

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[32]

TrendForce/WitsView press release (May 2018) — https://www.trendforce.com/presscenter/news/20180503-9987.html (excerpts): BOE Gen 10.5 fab mass production March 2018; 65/75-inch economics; 2Q18 TV panel price declines by size (32-inch -20~22%, 65-inch -14~16%).

Reading status: Excerpts / abstract read
Cited in: Motherglass, Generations and the Crystal Cycle; The Price of a Window

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[33]

ETNews (Sept 2018, Korean) — https://www.etnews.com/20180910000161 (excerpts): BOE Hefei B9 Gen 10.5 lit Dec 2017; 2,940x3,370 mm glass; 75-inch 6-up at 94% utilisation vs Gen 8.5 MMG 80%; 65-inch 8-up; ramp 40k->60k sheets/month Jul-Sep 2018, ~90k by year-end (IHS Markit).

Reading status: Excerpts / abstract read
Cited in: Motherglass, Generations and the Crystal Cycle

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[34]

J. Soc. Inf. Display, "Gen-10 Fabs Will Create Upheaval in the Display Market" (2018) — https://doi.org/10.1002/j.2637-496x.2018.tb01084.x (excerpts): motherglass 2,940x3,370 mm; capex rises with square root of substrate size while value rises with area; "gingerbread/cut loss" analogy; ~half of announced capacity historically built; crystal cycle; Gen 10 = 8-up 65-inch, 6-up 75-inch.

Reading status: Excerpts / abstract read
Cited in: Motherglass, Generations and the Crystal Cycle; Bottlenecks: Indium, Cycles and Standards

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[35]

Basel Convention, "Ghana e-Waste Country Assessment" (2011) — http://www.basel.int/portals/4/basel%20convention/docs/ewaste/e-wasteassessmentghana.pdf (excerpts via search): informal e-waste flows to Agbogbloshie scrapyard, Accra; volumes and informal dismantling.

Reading status: Excerpts / abstract read
Cited in: The Death of the Tube; The Set in the World

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[36]

Sustainability (MDPI) 16(11):4347 (2024) — https://doi.org/10.3390/su16114347 (abstract via search): soil and groundwater impacts of informal e-waste recycling in Ghana.

Reading status: Excerpts / abstract read
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Wikipedia, "OLED" — https://en.wikipedia.org/wiki/OLED (read in full): Tang & Van Slyke Kodak 1987 two-layer device; Pioneer car stereo 1997; Kodak digicam full-colour 2003; Sony XEL-1 first OLED TV 2007; Universal Display patents.

Reading status: Held as background (not cited in the text)
Cited in: OLED, Quantum Dots and MicroLED; The Emissive Pixel: OLED and the Screen That Is the Lamp

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[38]

Samsung Newsroom (Jan 2018) — https://news.samsung.com/global/samsung-unveils-the-wall-the-worlds-first-modular-microled-146-inch-tv (excerpts): "The Wall", first modular MicroLED 146-inch display, CES Jan 2018, self-emissive.

Reading status: Excerpts / abstract read
Cited in: OLED, Quantum Dots and MicroLED; The Future of the Television

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[39]

LG newsroom (Oct 2020) + The Verge (Oct 2020; May 2024) — https://www.lg.com/global/newsroom/news/media-entertainment-solution/commercial-launch-of-lgs-long-awaited-rollable-oled-tv-marks-turning-point-in-tv-history/ ; https://www.theverge.com/2020/10/19/21524338/lg-rollable-tv-available-price-on-sale-korea ; https://www.theverge.com/2024/5/16/24158263/lg-rollable-oled-r1-r-tv-discontinued (excerpts): world's first rollable TV LG Signature OLED R launched Oct 2020 Korea at 100M won (>$87k); ~$100k US; discontinued 2024 after slow sales.

Reading status: Excerpts / abstract read
Cited in: OLED, Quantum Dots and MicroLED; The Future of the Television

[40]

Statista, global TV advertising revenue 2014-2025 (updated Mar 2026) + Statista Market Insights TV & Video Advertising — https://www.statista.com (excerpts): TV ad spend plateau/decline 2014-2025; TV & video advertising ~$339.3bn projected 2024, digital video ~$191.4bn the larger half.

Reading status: Excerpts / abstract read
Cited in: The Signal Economy: What the Set Sells After It Is Sold; The Ledger: An Industry Counted

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[41]

Roku Q4 2024 Shareholder Letter (Roku Inc., February 2025), https://image.roku.com/c3VwcG9ydC1B/4Q24-Shareholder-Letter.pdf, and Roku 2024 Form 10-K (SEC), https://www.sec.gov/Archives/edgar/data/1428439/000142843925000013/roku-20241231.htm — VERIFIED 2026-11-02 via web search of the primary documents: FY2024 total gross profit $1.8B; platform segment gross profit ~$2.0B across the year (Q4 $559.9M alone), devices segment gross profit negative in every quarter (Q4 -$47.4M). Supports "earns most of its gross profit from its platform" (indeed, more than 100%, devices being loss-making).

Reading status: Verified against primary source
Cited in: The Signal Economy: What the Set Sells After It Is Sold

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[42]

Nielsen, "Streaming Reaches Historic TV Milestone, Eclipses Combined Broadcast and Cable Viewing for First Time," press release, 17 June 2025, https://www.nielsen.com/news-center/2025/streaming-reaches-historic-tv-milestone-eclipses-combined-broadcast-and-cable-viewing-for-first-time/ — VERIFIED 2026-11-02 against the primary release: in May 2025 streaming took 44.8% of US TV usage vs broadcast 20.1% + cable 24.1% = 44.2%, first month streaming exceeded the two combined.

Reading status: Verified against primary source
Cited in: The Signal Economy: What the Set Sells After It Is Sold; The Watchers: Measuring the Audience; The Second Screen

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[43]

Indium supply: USGS Mineral Commodity Summaries, Indium — by-product of zinc refining; China largest refiner; ITO main use. (General reference, USGS annual.)

Reading status: Held as background (not cited in the text)
Cited in: Anatomy of a Panel; Bottlenecks: Indium, Cycles and Standards

[44]

ATSC/Pearl TV/Federal Register: ATSC 3.0 "NextGen TV" reached 76% of US TV households (Oct 2024); Brazil adopted ATSC 3.0-based DTV+ (Aug 2025); FCC permissive-use order (Nov 2025) — https://pearltv.com/news/broadcast-nextgen-tv-reaches-deployment-milestone-as-new-consumer-receivers-are-announced-for-next-generation-viewing/ ; https://www.atsc.org/nextgen-tv/deployments/ ; https://www.federalregister.gov/documents/2025/11/20/2025-20437/ (excerpts).

Reading status: Excerpts / abstract read
Cited in: Bottlenecks: Indium, Cycles and Standards; The Future of the Television

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[46]

NYT (Jul 18 1995) + Matsushita v. Zenith (US Supreme Court 1986) — https://www.nytimes.com/1995/07/18/us/last-us-tv-maker-will-sell-control-to-koreans.html ; https://www.govinfo.gov/content/pkg/USREPORTS-475/pdf/USREPORTS-475-574.pdf (excerpts): Zenith, last US-owned TV maker, sold majority control to LG Electronics for $350M (1995); National Union Electric 1970 anti-dumping/antitrust suit vs Japanese makers, decided for defendants 1986.

Reading status: Excerpts / abstract read
Cited in: The Transistor Coup, or How Japan Took the Set; Makers: The League Table and What It Hides

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[47]

Wikipedia, "Videocassette recorder" — https://en.wikipedia.org/wiki/Videocassette_recorder (full page fetched 2026-11-01): Ampex VRX-1000 1956 $50k; U-matic Sep 1971 $1,395 combo; Betamax Nov 1975 vs VHS 1976 (2hr vs 1hr); JVC licensing; ~90% US household penetration at peak; Sony v. Universal (Betamax case) 1984 5-4, time-shifting fair use; DVD 1997, TiVo 1999; VCR production ended 2016.

Reading status: Full text fetched and read
Cited in: The Cassette Rebellion: Tape Sets the Viewer Free

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[48]

Wikipedia, "High-definition television" — https://en.wikipedia.org/wiki/High-definition_television (full page fetched 2026-11-01).

Reading status: Full text fetched and read
Cited in: High Definition: The Standard That Waited for the Screen

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[49]

Wikipedia, "Digital television transition" — https://en.wikipedia.org/wiki/Digital_television_transition (full page fetched 2026-11-01).

Reading status: Full text fetched and read
Cited in: The Air: Antennas, Towers and the Map in the Sky; High Definition: The Standard That Waited for the Screen; The Death of the Tube; The Set in the World

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[50]

Wikipedia, "Rear-projection television" — https://en.wikipedia.org/wiki/Rear-projection_television (full page fetched 2026-11-01): dominant affordable large-screen to ~2006, up to 100-inch; up to 500 lb early CRT RPTV; DLP micromirror; RCA wall-mount 2003; Mitsubishi 1080p 2005; Samsung LED 2006; LaserVue 2008; Sony exit Dec 2007, Samsung 2008, Mitsubishi last to stop 2012.

Reading status: Full text fetched and read
Cited in: The Interludes: Rear-Projection and the 3D Fad

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[51]

Wikipedia, "3D television" — https://en.wikipedia.org/wiki/3D_television (full page fetched 2026-11-01): Matsushita 3D 1981; Avatar Dec 2009; CES 2010 full lineups; shipments 2.26M (2010) / 24.14M (2011) / 41.45M (2012) per DisplaySearch; decline from late 2013; ESPN 3D launched Jun 11 2010, shut 2013; production ended 2016.

Reading status: Full text fetched and read
Cited in: The Interludes: Rear-Projection and the 3D Fad

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[52]

Wikipedia, "List of most watched television broadcasts" — https://en.wikipedia.org/wiki/List_of_most_watched_television_broadcasts (full page fetched 2026-11-01): methodological caveats (organiser claims inflated, few if any broadcasts reach 1 billion); Apollo 11 ~600M estimate; coronation 1953 set sales; Senna funeral Brazil 75% reach/100% share 1994; CCTV Spring Festival Gala Guinness record claims.

Reading status: Full text fetched and read
Cited in: The Event: When the Whole World Watched; The Programme: What the Hardware Was For; The Second Screen

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[53]

Wikipedia, "Smart TV" — https://en.wikipedia.org/wiki/Smart_TV (full page fetched 2026-11-01): smart-only mid/high-end from 2015, dominant by late 2010s; 29% of $75k+ households early 2016 (Nielsen); platforms Tizen/webOS/Roku/Android; t-commerce, addressable ads; Princeton/UChicago "Watching You Watch" 2019 OTT tracking study; connected-TV ad spend ~$7bn 2019 (+38%, eMarketer); Samsung privacy-policy "Orwellian" criticism; Vizio case noted.

Reading status: Full text fetched and read
Cited in: The Set Becomes a Platform; The Watchers: Measuring the Audience; The Second Screen

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[54]

US FTC press release (Feb 6 2017) — https://www.ftc.gov/news-events/news/press-releases/2017/02/vizio-pay-22-million-ftc-state-new-jersey-settle-charges-it-collected-viewing-histories-11-million (read): Vizio $2.2M settlement; second-by-second viewing data from 11M smart TVs from Feb 2014; demographic appending; sold to third parties for ad targeting; no consent.

Reading status: Full text fetched and read
Cited in: The Set Becomes a Platform; The Watchers: Measuring the Audience

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[55]

Wikipedia, "HBO" — https://en.wikipedia.org/wiki/HBO (full page fetched 2026-11-01): launched Nov 8 1972, Teleservice Cable Wilkes-Barre PA, 365 subscribers, NHL game then "Sometimes a Great Notion"; first TV channel distributed by satellite, Sept 1975.

Reading status: Full text fetched and read
Cited in: Remote, Cable, Satellite: The Set Escapes the Broadcast; The Programme: What the Hardware Was For; The Wire Up the Valley: How Cable Began

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[56]

Wikipedia, "Direct-broadcast satellite television" — https://en.wikipedia.org/wiki/Direct-broadcast_satellite_television (full page fetched 2026-11-01): geostationary DBS, Ku-band digital; free-to-air Germany ~250 channels Astra 19.2E, analogue ceased Apr 2012; UK ~160 FTA channels; India DD Free Dish.

Reading status: Full text fetched and read
Cited in: Remote, Cable, Satellite: The Set Escapes the Broadcast; The Programme: What the Hardware Was For; The Dish: Television from Orbit; The Set in the World

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[57]

Wikipedia, "I Love Lucy" — https://en.wikipedia.org/wiki/I_Love_Lucy (full page fetched 2026-11-01): CBS 1951-57, 180 episodes; first scripted TV programme filmed on 35mm before studio audience (Karl Freund); Desilu; rerun/syndication legacy.

Reading status: Full text fetched and read
Cited in: The Boom: America Moves Into the Living Room; The Programme: What the Hardware Was For

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[58]

Wikipedia, "Army-McCarthy hearings" — https://en.wikipedia.org/wiki/Army%E2%80%93McCarthy_hearings (full page fetched 2026-11-01): April-June 1954, gavel-to-gavel on ABC and DuMont (Apr 22-Jun 17); Welch confrontation; TV coverage drove McCarthy's decline and December censure.

Reading status: Full text fetched and read
Cited in: The Boom: America Moves Into the Living Room

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[59]

Wikipedia, "405-line television system" — https://en.wikipedia.org/wiki/405-line_television_system (full page fetched 2026-11-02): BBC Television Service 1936, suspended WWII, reinstated 1946, ran to 1985, CCIR System A; Feb 1938 RCA Riverhead Long Island received BBC signal 5,000 km via ionosphere, only surviving pre-war live British TV.

Reading status: Full text fetched and read
Cited in: Anatomy of a Tube; The War and the Restart; Going Public: Berlin, Alexandra Palace, Flushing Meadows; The Colour Wars

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[60]

Wikipedia, "Television licence" — https://en.wikipedia.org/wiki/Television_licence (full page fetched 2026-11-02): UK first compulsory wireless licence for BBC; two-thirds of European and half of Asian/African countries use TV licences, rare in Americas; UK colour £180/yr vs monochrome £60.50/yr from 1 Apr 2026; licence ~75% of BBC domestic funding, BBC Studios commercial arm; UK radio licence abolished 1971; Canada 1922-1953 receiving licences ($1 to $2.50), replaced by 15% excise tax on TV sets/tubes/parts to fund CBC, phased out 1958; Japan NHK jushin-ryo ¥14,205 terrestrial / ¥24,740 satellite, 2006 non-payment "epidemic", no sanction, anti-NHK party founded 2013; abolitions: Netherlands 2000, Sweden 2019, Norway 2020, France and Denmark 2022, Slovakia 2023; Albania collects via electricity bill; Austria ~2.5% evasion.

Reading status: Full text fetched and read
Cited in: The Meter on the Set: Paying for Television

[61]

Wikipedia, "Telstar" — https://en.wikipedia.org/wiki/Telstar (full page fetched 2026-11-02): Telstar 1 launched 10 Jul 1962 on Thor-Delta, first privately sponsored space launch (Bell Labs paid NASA per launch); 34.5-inch sphere, 170 lb, 14 W solar; 6 GHz up / 4 GHz down traveling-wave-tube transponder, one TV channel; 2h37m elliptical orbit, ~30 min transatlantic windows; Andover, Maine horn antenna 177 ft, 380 tons, radome 14 storeys; first TV pictures 11 Jul 1962 (flag at Andover to Pleumeur-Bodou); first public live transatlantic TV 23 Jul 1962 (Cronkite, Huntley, Dimbleby; Statue of Liberty, Eiffel Tower; Phillies-Cubs fill; Kennedy dollar remarks); AT&T-Bell Labs-NASA-GPO-France agreement; ground stations US, UK (Goonhilly), France, Canada, West Germany, Italy.

Reading status: Full text fetched and read
Cited in: The Dish: Television from Orbit

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[62]

Wikipedia, "Digital signage" — https://en.wikipedia.org/wiki/Digital_signage (full page fetched 2026-11-02): DOOH advertising segment; networked CMS vs standalone playback; LCD/LED/OLED displays, video walls, kiosks; audience-measurement cameras estimating demographics/dwell/attention with anonymisation claims; context-aware content (weather, time, emergencies).

Reading status: Full text fetched and read
Cited in: The Ambient Screen: Television Leaves the House

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[63]

Wikipedia, "Electronic program guide" — https://en.wikipedia.org/wiki/Electronic_program_guide (full page fetched 2026-11-02): United Video Satellite Group launched first North American EPG cable channel 1981 (listings 90 min ahead, data by satellite to headend computers), renamed Prevue Guide, later TV Guide Channel; SuperGuide 1986 interactive for home satellite, integrated into Uniden 4800 March 1990 with one-touch tune and VCR IR control; searchable-EPG patent June 1988; TV Guide On Screen (TV Guide Magazine/Liberty Media JV) launched late 1995 in General Instrument CFT2200; Scientific Atlanta 8600X 1993; data via VBI, ETSI ETS 300 707, ATSC PSIP; listings aggregators Gracenote (Nielsen), TiVo Corp; Western Europe 59M EPG households end-2008 (36%), UK 96% EPG usage 2010; TV Guide Network rebranded Pop Jan 2015.

Reading status: Full text fetched and read
Cited in: The Grid: The Schedule Made Visible

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[64]

Wikipedia, "Funai"; "TPV Technology"; "Vestel" — https://en.wikipedia.org/wiki/Funai , /wiki/TPV_Technology , /wiki/Vestel (full pages fetched 2026-11-02): Funai licensed Philips/Magnavox/Emerson/Sanyo TV brands in North America, main Walmart/Sam's Club electronics supplier (2M+ flat panels/yr for Black Friday); last VCR maker, ended July 2016; 2008 seven-year Philips NA TV license; quasi-bankruptcy approved Oct 24 2024, liabilities ~81.9bn yen vs 1.4bn assets (Apr 2025); Skyworth took over Philips-brand US TVs from Funai (Jul 2025). TPV: world's largest monitor maker (~33% share), owns AOC, Philips monitor/entry-TV license since 2005, 6.1M monitors/month capacity 2010. Vestel: Turkish ODM, "unknown TV giant" (Businessweek 2011), largest European TV producer 2006 with quarter of market (8M+ units), Vestel City 1.3M m2, 10M TVs/yr capacity 2021.

Reading status: Full text fetched and read
Cited in: The Invisible Makers: Who Actually Builds the Set; The Price of a Window

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[65]

Wikipedia, "TV Guide" — https://en.wikipedia.org/wiki/TV_Guide (full page fetched 2026-11-02): national launch Apr 3 1953 (Walter Annenberg/Triangle, from Lee Wagner's 1948 TeleVision Guide and bought-out regional listings magazines); first issue 1.56M copies in 10 cities, Desi Arnaz Jr. cover, 15 cents; digest format 52 years; most-read US magazine by the 1960s; peak circulation almost 20M (1970); 140 local editions; checkout-counter sales; sold to News Corp Aug 1988 for $3B (most expensive publication transaction then); VCR Plus+ codes added 1990; sold to United Video Satellite Group Jun 1998 for $800M + $1.2B stock; 2005 digest abandoned, 140 local editions cut to 2 timezone editions (Oct 17 2005); circulation under 3M by 2007; Oct 2008 Macrovision sold the magazine for $1 + $9.5M loan while the website went for $300M.

Reading status: Full text fetched and read
Cited in: The Listings: The Paper Schedule

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[66]

Wikipedia, "Teletext"; "Closed captioning" — https://en.wikipedia.org/wiki/Teletext , /wiki/Closed_captioning (full pages fetched 2026-11-02): teletext created in UK early 1970s (John Adams, Philips VDU designer, for hearing-impaired captioning); data hidden in VBI as numbered pages; ORACLE first live broadcast demo 50 pages, Crystal Palace, 9 Apr 1973; Ceefax launched 23 Sep 1974 (editorial team of nine, 30 pages, 100-page "full magazine" by 1975); 1974 common 24x40 standard; TI UK first commercial decoders May 1975; teletext TVs ~GBP1000 in 1976, ~3,000 sold by Aug 1977, ~14,000 by Dec 1979; mass adoption after 1981 campaign; West Germany and Netherlands 1980; WST (CCIR System B) dominant Europe, decoders in almost all sets; US NABTS and France Antiope mostly closed by early 1990s.

Reading status: Full text fetched and read
Cited in: The Hidden Pages: Teletext and the First Data Broadcast

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[67]

Wikipedia, "CNN" — https://en.wikipedia.org/wiki/CNN (full page fetched 2026-11-02): launched 6:00pm ET June 1 1980, Ted Turner and Reese Schonfeld; first 24-hour news channel and first all-news US TV channel; first newscast David Walker and Lois Hart; first 200 employees incl. Bernard Shaw; 42 bureaus (12 domestic, 31 international... as listed); 68,974,000 US subscriber households Dec 2023 (Nielsen), down from 80M March 2021; Time Warner acquired Turner Broadcasting 1996; June 27 2024 hosted Trump-Biden debate, CNN said largest audience in its history.

Reading status: Full text fetched and read
Cited in: The Clock: News Without a Bedtime

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[68]

Wikipedia, "Television advertisement" — https://en.wikipedia.org/wiki/Television_advertisement (full page fetched 2026-11-02): first US paid TV ad July 1 1941, WNBT New York, Bulova, $4-$9, test-pattern clock before Dodgers-Phillies; first UK TV ad ITV Sept 22 1955 (Gibbs SR toothpaste); first Asian TV ad NTV Tokyo Aug 28 1953 (Seiko clock); ad-skipping studies from VCR era 1980s, DVR/TiVo fast-forward; Fox/NBC one-minute "prime pods" 2018; licensed pop music in US ads from 1985 (Burger King/Aretha "Freeway of Love", 1987 Nike/Beatles "Revolution"); clearance bodies (Clearcast UK).

Reading status: Full text fetched and read
Cited in: The Thirty Seconds: Advertising, the Industry's Fuel

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[69]

Wikipedia, "Broadcast syndication" — https://en.wikipedia.org/wiki/Broadcast_syndication (full page fetched 2026-11-02): three types (first-run, off-network/rerun, public broadcasting); off-network entry at ~4 seasons / 80-100 episodes (65 for some genres); deficit financing model (produce at a loss, profit in syndication); cash/barter licensing; Ziv Television Programs first major first-run syndicator (The Cisco Kid shot in colour early; Sea Hunt, Highway Patrol); networks began syndicating reruns late 1950s; distribution on 16mm film prints until ~1980; more stations than networks after All-Channel Receiver Act; top syndicated shows reach up to 98% of US market; sitcoms trimmed 22 to 20 minutes in syndication; in-season syndication fear disproven (Law & Order).

Reading status: Full text fetched and read
Cited in: The Aftermarket: The Rerun as Property

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[70]

Wikipedia, "TV format" — https://en.wikipedia.org/wiki/TV_format (page fetched 2026-11-02): format = licensed concept/branding remade locally; popular because proven idea lowers risk and audiences prefer local versions; game shows and reality genres dominate; Who Wants to Be a Millionaire? recreated in 108 territories; Idol versions in 42 territories, 129+ series, ~3 billion votes; leading format firms include Warner Bros. International Television Production, ITV Studios, Talpa, Endemol Shine, Fremantle.

Reading status: Held as background (not cited in the text)
Cited in: The Format: Selling the Recipe

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[71]

Wikipedia, "Sports broadcasting" — https://en.wikipedia.org/wiki/Sports_broadcasting (full page fetched 2026-11-02): Marconi's 1899 America's Cup radio report as first sports broadcast; first radio boxing broadcast Pittsburgh 1921; first live televised sport Epsom Derby June 3 1931; first colour sportscast 1951 Dodgers-Braves baseball; BBC barred from broadcasting sport before 7pm to protect newspaper sales; 1927 BBC football commentary with Radio Times numbered pitch grids; Hockey Night in Canada on CBC TV October 1952, still top-rated; Canadian simultaneous substitution rule (US feeds blacked out and replaced when showing same programme).

Reading status: Full text fetched and read
Cited in: The Game: How Sport Built the Box

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[72]

Wikipedia, "CES (trade show)" — https://en.wikipedia.org/wiki/CES_(trade_show) (full page fetched 2026-11-02): first CES June 24-28 1967, New York, spun off the Chicago Music Show; 17,500 attendees, 100+ exhibitors (200 per another count), kickoff speaker Motorola's Bob Galvin; twice yearly 1978-1994 (Winter CES Las Vegas, Summer CES Chicago); annual, Las Vegas only, from 1998; up to 18 days to set up, run and break down; 141,000 attendees 2025; 1970 CES: Philips N1500 first home VCR, $900 with tuner vs $50,000+ studio machines.

Reading status: Full text fetched and read
Cited in: The Bazaar: The Industry's January

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[73]

Wikipedia, "Dubbing" — https://en.wikipedia.org/wiki/Dubbing (full page fetched 2026-11-02): dubbing adopted partly for political reasons in Fascist Italy and Francoist Spain (ideology, standardised national language over dialects); post-Nazi Germany dubs downplayed the past (Notorious: Nazi plot became drug smugglers); film-loop "looping" replaced by videotape then digital ADR; voice actors often uncredited/anonymous (SAG pseudonyms); Iran "Golden Age of Dubbing" 1960s-70s; AI dubbing: YouTube multi-language audio launched Sept 2025 after two-year pilot, Amazon Prime Video AI-dub tests March 2025 with quality/job criticism; visual dubbing (Wav2Lip 2020); 2023 SAG-AFTRA contract permits lip/facial adjustment to match dubbed audio with human voice actors.

Reading status: Full text fetched and read
Cited in: The Second Voice: The Dubbing Trade

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[74]

Wikipedia, "Cable television in the United States" — https://en.wikipedia.org/wiki/Cable_television_in_the_United_States (full page fetched 2026-11-02): US cable from 1948; John Walson's Mahanoy City PA claim (Congress/NCTA recognised spring 1948; scholarship suggests late 1950); Ed Parsons, Astoria OR, first system with coax, amplifiers and community antenna (KRSC Seattle 125 miles, Hotel Astoria roof, Nov 1948; $125 setup + $3/month; acknowledged father of CATV May 1968); Robert Tarlton's Lansford PA retailer group 1950, first commercial system; FCC freeze 1948-52 drove CATV demand; first FCC contact with CATV Aug 1 1949 letter to Parsons; 53M households by 1989, 60% by 1992; HBO launched Nov 8 1972 Wilkes-Barre via microwave, first satellite-delivered cable network 1975.

Reading status: Full text fetched and read
Cited in: The Wire Up the Valley: How Cable Began

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[75]

Wikipedia, "Financial Interest and Syndication Rules" — https://en.wikipedia.org/wiki/Financial_Interest_and_Syndication_Rules (full page fetched 2026-11-02): FCC 1970 rules barred Big Three networks from owning prime-time programming and from syndication stakes; spin-offs: CBS Enterprises renamed Viacom 1971 and spun off, ABC Films sold to executives March 1973 (later Worldvision), NBC Films sold to NTA March 1973 for $7.5M; rules eliminated 1993; network-produced prime-time shows went 0 of 66 (1987-88) to 6 of 67 (1992-93), jumping to 11 the season after repeal and 20 by 2001-02.

Reading status: Full text fetched and read
Cited in: The Rulebook's Teeth: Fin-Syn and the Unbundled Networks

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[76]

Wikipedia, "Saturday-morning cartoon" — https://en.wikipedia.org/wiki/Saturday-morning_cartoon (full page fetched 2026-11-02): 1950s shift of animation from theatres to TV after Paramount Decree; until 1963 the block was theatrical reruns; Fred Silverman's 1966-67 CBS 4.5-hour cartoon block took first place; superhero wave (Space Ghost, Superman); 1968 violence concerns, network censors; Action for Children's Television pressure removed action shows by 1972; 1973 ACT/NAB compromise 12 ad minutes/hour; 1978 FTC considered preschool ad ban, dropped; Fowler FCC from May 1981 deregulation, rules loosened by 1982; Pac-Man first video-game cartoon, then "half-hour toy commercials" (He-Man, Transformers, TMNT); 1988 Children's Television Act vetoed by Reagan; from 1992 Big Three swapped cartoons for weekend news; 2004 Nickelodeon+Cartoon Network 88% of child ad impressions vs Kids WB 7%; last broadcast blocks ended 2014 (CW Vortexx) and 2016 (NBC Kids).

Reading status: Full text fetched and read
Cited in: The Toy Aisle: A Short History of Saturday Morning

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[77]

Wikipedia, "FCC fairness doctrine" — https://en.wikipedia.org/wiki/FCC_fairness_doctrine (full page fetched 2026-11-02): policy 1949-1987; required coverage of controversial public issues with contrasting viewpoints (not equal time; equal-time rule for candidates is separate, still in force); Mayflower Doctrine 1941 banned editorializing, repealed by 1949 Editorializing Report; used by Kennedy/Johnson/Nixon administrations against opponents; Red Lion v. FCC 1969 upheld 8-0 (spectrum scarcity rationale, Justice White); WLBT license revocation ordered 1969 over segregationist censorship; Fowler FCC 1985 report against; abolished 4-0 on Aug 4 1987 (Syracuse Peace Council), upheld Feb 1989; formally struck from Federal Register Aug 2011; demise cited as factor in rising polarization.

Reading status: Full text fetched and read
Cited in: The Watchdog's Bargain: Fairness and the Licenced Word

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[78]

Wikipedia, "Test card" — https://en.wikipedia.org/wiki/Test_card (full page fetched 2026-11-02): physical/electronic calibration images; RCA Indian-head pattern used in North America from 1940s to 1970s with labelled alignment elements; electronic cards named for their generators (Philips PM5544, Grundig VG1000, Telefunken FuBK) or organizations (SMPTE/EBU colour bars); 24-hour schedules made them rare; BBC test-card music was library music licensed on favourable terms, with the B-B-C celesta ident.

Reading status: Full text fetched and read
Cited in: The Standby Image: The Test Card

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[79]

Wikipedia, "Chroma key" — https://en.wikipedia.org/wiki/Chroma_key (full page fetched 2026-11-02): compositing by colour hue; blue screen developed at RKO in the 1930s (Linwood Dunn travelling mattes, Flying Down to Rio 1933); Larry Butler's genie in The Thief of Bagdad (1940) first proper bluescreen travelling matte, won the effects Oscar; Arthur Widmer's work from 1950 (The Old Man and the Sea, 1958); Petro Vlahos refinement Oscar 1964; US/UK networks moved to green backdrops for newscasts in the early 1970s; green chosen over blue because presenters wore blue and the green channel carried more signal strength; standard for live weather maps; wardrobe collisions erase clothing.

Reading status: Full text fetched and read
Cited in: The Colour That Isn't There: The Green Screen

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[80]

Wikipedia, "Microwave transmission" — https://en.wikipedia.org/wiki/Microwave_transmission (full page fetched 2026-11-02): microwave radio relay widely used in the 1950s-60s for long-distance telephone and television; line-of-sight hops of 30-50 miles, relay stations on mountaintops and tall buildings; AT&T Long Lines TDX connected New York-Boston in 1947 with eight relay stations; improved TD2 deployed across the US through the 1950s,

carrying the majority of long-distance telephone traffic and television network signals; communication satellites took over the television market in the 1970s-80s and long-distance fibre in the 1980s-90s, and most relay networks are now abandoned.

Reading status: Full text fetched and read
Cited in: The Hilltop Relays: The Network's Steel Backbone

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[81]

Wikipedia, "Sign-on and sign-off" — https://en.wikipedia.org/wiki/Sign-on_and_sign-off (full page fetched 2026-11-02): the daily start-up and closedown sequences of broadcast stations; closedown rituals included a prayer or sermonette, a statement of commitment to a recognized code (in the US, the NAB Television Code until 1983) and a montage set to the national anthem; the spread of 24-hour broadcasting displaced the sign-off, its hours sold to infomercials, reruns and teletext simulcasts; some stations keep a formal start-up in the early morning to open the broadcast logging day.

Reading status: Full text fetched and read
Cited in: The Goodnight: Sign-Off and the Sleeping Signal

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[82]

Wikipedia, "Television station" — https://en.wikipedia.org/wiki/Television_station (full page fetched 2026-11-02): Fernsehsender Paul Nipkow in Berlin the first regular television service (22 March 1935 to 1944); station vs network vs channel terminology; owned-and-operated vs affiliate; local insertion of commercials, idents and emergency alerts; US Big Three/Big Four; CW supplies fifteen hours of primetime a week, MyNetworkTV ten.

Reading status: Full text fetched and read
Cited in: The Fourth Leg: Fox and the New Networks

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[83]

Wikipedia, "Television network" — https://en.wikipedia.org/wiki/Television_network (full page fetched 2026-11-02): chain broadcasting in the 1940s; January 1949 DuMont's WDTV Pittsburgh linked the Midwest and East Coast networks by coaxial cable; by 1951 the four networks stretched coast to coast on AT&T Long Lines microwave; early networks fed only a few hours a week, mostly 8-11 pm Eastern; FCC Prime Time Access Rule limited network hours, pushing stations to syndication; FCC ownership caps produced independently owned affiliates under franchise contracts with O&Os in major cities; DuMont shut down 1956; Fox launched 9 October 1986 from the Metromedia stations, fourth major network by 1994; WB and UPN launched January 1995, consolidated as The CW September 2006; a network feed can reach 200-plus stations.

Reading status: Full text fetched and read
Cited in: The Webbing: Chain Broadcasting and the Affiliate Compact; The Fourth Leg: Fox and the New Networks

[84]

Wikipedia, "Videotape" — https://en.wikipedia.org/wiki/Videotape (full page fetched 2026-11-02): Bing Crosby Enterprises' first videotape demonstration, Los Angeles, 11 November 1951 (Mullin and Johnson, modified Ampex 200, quarter-inch tape at 360 ips, "blurred and indistinct"); BBC VERA 1952-58; RCA Simplex colour demonstration at Princeton, 1 December 1953; Ampex quadruplex two-inch transverse four-head introduced 14 April 1956 at the NAB convention, Chicago; CBS first used the Ampex VRX-1000 at Television City on 30 November 1956 for a delayed Pacific broadcast of Douglas Edwards and the News; Truth or Consequences first all-time-zones prerecorded broadcast, 22 January 1957; Ampex colour VTR 1958 (RCA cross-licence); Sony U-matic prototype 1969, commercial September 1971; Betacam 1982; Sony D-1 1986; Funai, the last VCR manufacturer, ended production July 2016.

Reading status: Full text fetched and read
Cited in: The Magnetic Memory: Videotape and the End of Liveness

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[85]

Wikipedia, "Set-top box" — https://en.wikipedia.org/wiki/Set-top_box (full page fetched 2026-11-02): the box as decoder/converter appliance; UHF converters before the All-Channel Receiver Act of 1962; cable converters and premium-channel descramblers; digital-terrestrial converter boxes around the US analogue shutdown of 2009; the FCC's July 2007 rule letting consumers buy third-party boxes; professional IRDs; hybrid HbbTV and streaming boxes.

Reading status: Full text fetched and read
Cited in: The Box on the Box: The Set-Top as Tollbooth

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[86]

Wikipedia, "Video coding format" — https://en.wikipedia.org/wiki/Video_coding_format (full page fetched 2026-11-02): practical compression from motion-compensated DCT; H.120 (CCITT, 1984) first standard but unusable; H.261 (1988) videoconferencing; MPEG-1 (1991, VHS-quality); MPEG-2/H.262 (1994-95, DVD and digital broadcast); H.264/AVC (2003; most widely used format as of 2019); HEVC/H.265 (2013); patent pools and submarine-patent risk motivating royalty-free formats.

Reading status: Full text fetched and read
Cited in: The Squeeze: How the Codec Remade the Pipe

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[87]

Wikipedia, "Digital video recorder" — https://en.wikipedia.org/wiki/Digital_video_recorder (full page fetched 2026-11-02): Sony DVR-1000 (1987) first commercial digital VCR; Tektronix Profile PDR100 disk recorder

(1995), used by TV4 Stockholm (1996) and NBC at the Atlanta Olympics, engineering Emmy 1996; Stanford disk-DVR prototype (1998); TiVo and ReplayTV launched at CES January 1999, TiVo first units shipped 31 March 1999, ReplayTV best-of-show with Andreessen on the board, US penetration under 100,000 by end-1999 (Forrester via Ad Age); lawsuits stripped ReplayTV's commercial skip; pause-live-TV and chasing playback; DVR functions absorbed into operator set-tops; Fox's 2012 suit against Dish's ad-skipping Hopper.

Reading status: Full text fetched and read
Cited in: The Time Shifter: The DVR and the Unscheduled Audience

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[88]

Wikipedia, "Closed-circuit television" — https://en.wikipedia.org/wiki/Closed-circuit_television (full page fetched 2026-11-02): CCTV as transmission to a limited set of monitors, distinct from broadcast; Siemens system at Test Stand VII, Peenemünde, 1942, to observe V-2 launches; early systems unrecordable, needing constant monitoring; VCR recording from the 1970s spread surveillance; digital multiplexing in the 1990s; Olean, New York, first US city with crime-fighting street cameras, September 1968; growth of state surveillance and body-worn cameras.

Reading status: Full text fetched and read
Cited in: The Watching Set: Television as Surveillance

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[89]

Wikipedia, "MTV" — https://en.wikipedia.org/wiki/MTV (full page fetched 2026-11-02): launched 1 August 1981 at 12:01am under Warner-Amex Satellite Entertainment; first video "Video Killed the Radio Star" by the Buggles; "I Want My MTV!" campaign 1982 (George Lois); rock-format exclusion of black artists (Rick James' "Super Freak") broken open by Michael Jackson's videos; Spring Break broadcasts from 1986; Ted Turner's Cable Music Channel (1984) sold to MTV after a month; competitors from HBO's Video Jukebox to NBC's Friday Night Videos.

Reading status: Full text fetched and read
Cited in: The Jukebox Channel: MTV and the Formatting of Youth

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[90]

Wikipedia, "Reality television" — https://en.wikipedia.org/wiki/Reality_television (full page fetched 2026-11-02): Candid Camera on television from 1948; Granada's Seven Up! (1964) and Apted's continuing Up series; PBS's 12-part An American Family (1973, filmed 1971, the Loud family); The Family (UK, 1974); Nummer 28 (Netherlands, 1991) originating strangers-in-a-house plus confessional conventions; MTV's The Real World a year later; Avid non-linear editing (1989) as enabler (Charlie Brooker's argument); Big Brother with around 50 international versions; Survivor; mid-2010s Korean formats travelling West (Grandpas Over Flowers to NBC's Better Late Than Never).

Reading status: Full text fetched and read
Cited in: The Unscripted Turn: Reality and the Price of People

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[91]

Wikipedia, "Shopping channel" — https://en.wikipedia.org/wiki/Shopping_channel (full page fetched 2026-11-02): teleshopping channels built on live presentation and demonstration; the format popularized in the US in the 1980s when Lowell "Bud" Paxson and Roy Speer's local Home Shopping Club expanded nationally (becoming HSN); QVC as the great rival (QVC agreed to buy HSN in 2017); the shift from telephone ordering to online; international peers from QVC UK to Taiwan's Momo and Canada's TSC.

Reading status: Full text fetched and read
Cited in: The Store in the Screen: Home Shopping and the Transactional Channel

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[92]

Wikipedia, "Product placement" — https://en.wikipedia.org/wiki/Product_placement (full page fetched 2026-11-02): embedded marketing as compensated brand reference; 19th-century origins (shipping lines lobbying for mention in Jules Verne's Around the World in Eighty Days, 1873); Lumière films of 1896 made at a Lever Brothers representative's request featuring Sunlight soap (per Jean-Marc Lehu); automobiles and consumer electronics the common categories; vertically integrated firms promoting their own divisions; 21st-century growth on television as a counter to DVR ad-skipping.

Reading status: Full text fetched and read
Cited in: The Brand in the Story: Product Placement and the Unskippable Ad