

Few inventions have had as much effect on contemporary America as Television. Before 1947, the number of U.S. homes with television sets was less than 9,000. By 2010, 99.8% of U.S. homes had at least one TV set and those sets were on for an average of more than 8 hours a day. The typical American viewer spends nearly from 2.5 to almost 5 hours a day watching television. This means that this time is NOT spent engaging in other activities such as reading, socializing (visiting particular people or places), doing housework or yard work, going out, or even doing homework. Yet, we complain that there isn't enough time in a day to get everything done! (A Day still amounts to 24 hours.)

### Inventions and Television Pioneers

The **CRT** is invented in 1897 by the **German scientist**, \_\_\_\_\_, as an oscilloscope used for the medical field. *Electronic television* is based on the development of the \_\_\_\_\_ (CRT), which is the picture tube used in modern TV sets. The CRT works as light emits through the tube when electric current is forced through a vacuum tube.

The very first television systems were: \_\_\_\_\_, which scan images using a rotating disk with holes arranged in a spiral pattern. They were never actually used by the public.

---**Mechanical Television** (an earlier version of TV) is invented in England by \_\_\_\_\_ in 1927. He later develops the first color picture tube during WW II.

---In the United States, \_\_\_\_\_ invents a Mechanical Television System called \_\_\_\_\_ and claims to have transmitted the earliest moving silhouette images on June 14, 1923.

\_\_\_\_\_ invents a cathode-ray tube called the \_\_\_\_\_ in 1929 – the tube needed for TV transmissions. Zworykin also invents the \_\_\_\_\_, an early television camera.

---\_\_\_\_\_ was invented by \_\_\_\_\_, an American farm boy who conceived the basic operating principles of electronic television at 14 years of age, and later patented his ideas in a fight with RCA. Yet, television would be placed on the back burners because of the \_\_\_\_\_ and \_\_\_\_\_.

\_\_\_\_\_ had made its debut in \_\_\_\_\_, shortly before the war had begun. But the first television sets were crude and expensive, carrying a price tag of \$200 to \$1,000, plus there was little in the way of programming. Americans were still enjoying \_\_\_\_\_ in their homes, and a good radio could be bought for less than \$10.00.

---By 1946, after World War II, Americans were eager to catch up on all they had missed during the war years. The idea of "Adding sight to sound" as \_\_\_\_\_, chairman of RCA put it, began to sound appealing since during the war all kinds of consumer goods, including electronics, had been put on-hold. A rivalry between CBS and RCA will be fought for the next 20 years as to who will bring Television to the American public in the 20<sup>th</sup> Century. And **David Sarnoff** will be regarded as the \_\_\_\_\_ for all of his innovations & contributions to both Radio and TV broadcasting.

### Innovations

---Color Television

---By 1948, **Louise Parker** invents the modern changeable television receiver (for channeling)

---Cable television was 1<sup>st</sup> used in the mountains of Pennsylvania in the late 1940's. Before that **CATV** or \_\_\_\_\_ is the commonest way of receiving Television signals. (Today called Analog signals)

---The 'V' shaped TV antennae called \_\_\_\_\_ are invented by Marvin Middlemark.

---By 1950, the 1<sup>st</sup> remote control developed in 1950 by Zenith Radio Corporation, came into American homes and called the \_\_\_\_\_. Used to turn a TV on / off & change channels, but it was not wireless, and had to be attached by a bulky cable, which caused lots of accidents in the home. By 1955, Zenith engineer, Eugene Polley creates the \_\_\_\_\_, the 1<sup>st</sup> wireless TV remote control. By 1956, Dr. Robert Adler, for Zenith, dev. remote controls to use ultrasound waves, yet they're big and expensive. By the early 1960's, \_\_\_\_\_ (using ultrasonic tech.) brought the price of electronic equipment down. In the early 1980's, \_\_\_\_\_ devices replaced ultrasonic remote controls.

---Closed Captioning for TV—are captions that are hidden in the television video signal, invisible without a special decoder. Specially created for the \_\_\_\_\_

---\_\_\_\_\_ (American Broadcasting Company) 1<sup>st</sup> aired Saturday morning \_\_\_\_\_ on August 19, 1950.