

Fig. 1 A rough structure of the PC based oscilloscope

Figure 2 depicts a blockdiagram of the digitizer. It presents main blocks of the device.

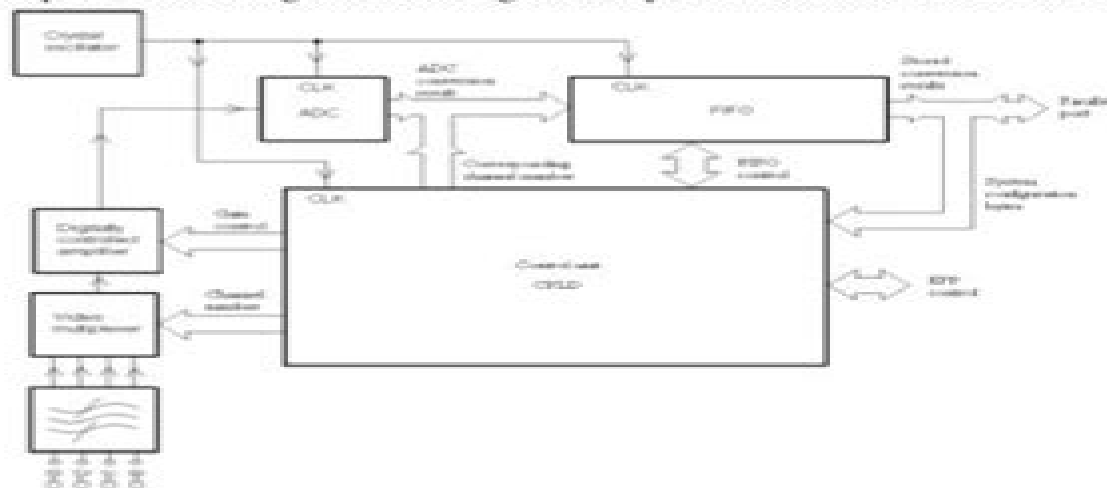


Figure 2. Blockdiagram of the digitizer

The following blocks are distinguished:

- 1) **Input filter.** It is a bandpass filter that passes frequencies within 10kHz...25MHz range. It's necessary to reject frequencies above 25MHz to avoid aliasing.
- 2) **Video multiplexer.** It selects a desired input signal for subsequent amplification and sampling. Thus, the digitizer doesn't sample all input signals simultaneously but commutates them in random order.
- 3) **Digitally controlled amplifier.** It amplifies or attenuates applied signals to ensure full dynamic range of the ADC. The highest signal/noise ratio ensues this procedure.
- 4) **ADC (Analog-to-Digital Converter).** As the name implies, it converts analog signals / voltages into corresponding digital codes to enable data storage, transfer and processing.
- 5) **Crystal oscillator.** It generates precise and stable clock frequency that substantially determines overall performance and precision.
- 6) **FIFO memory.** It stores written samples with corresponding channel number until PC reads them. It's an intermediate buffer that greatly facilitates data storage without losses while PC is busy to read data.
- 7) **CPLD.** It is necessary to control operation of the entire device and store user's settings.
- 8) **Interface with PC.** A parallel port is implemented to communicate with PC because of its simplicity. Interface with PC is required to read data from FIFO memory and load user's settings. However, parallel port doesn't offer high throughput and is often obsolete for modern computers.
- 9) **Power supply.** It generates necessary regulated voltages to supply internal analog and digital circuits of the device.

# Pc Based Oscilloscope Final Report

**SJ Ball**



## **Pc Based Oscilloscope Final Report:**

The Top Books of the Year Pc Based Oscilloscope Final Report The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Pc Based Oscilloscope Final Report : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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