Fig. 1 A rough structure of the PC based oscillograph

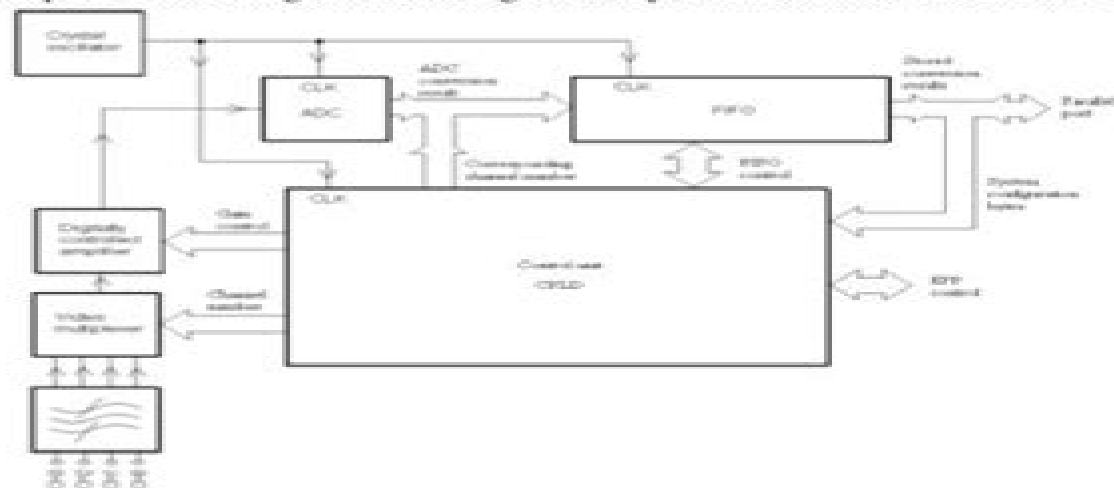Figure 2 depicts a blockdiagram of the digitizer. It presents main blocks of the device.

Figure 2. Blockdiagramm 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.

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