



**SNS COLLEGE OF TECHNOLOGY  
(AN AUTONOMOUS INSTITUTION)  
COIMBATORE-641 035.**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

# **DIGITAL STORAGE OSCILLOSCOPE**



**WH**

It stores a signal  
converting the si  
into binary numb  
which are stored  
digital memory a  
to recreate a con  
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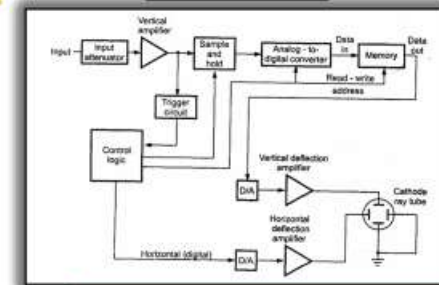
**WHAT IS DSO?**



It stores a signal by converting the signals into binary numbers which are stored in digital memory are use to recreate a composite waveform

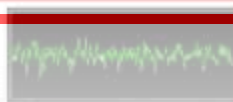


**BLOCKDIAGRAM**



- 1. Signal Input: Co
- 2. ADC Conversion
- 3. Sampling: Regu
- 4. Storage: Digital
- 5. Display: Proces
- 6. Triggering: Cap
- 7. Signal Processi
- 8. User Interface:
- 9. Output: Proces

new era memory (highly  
of electronic a computer  
171013W



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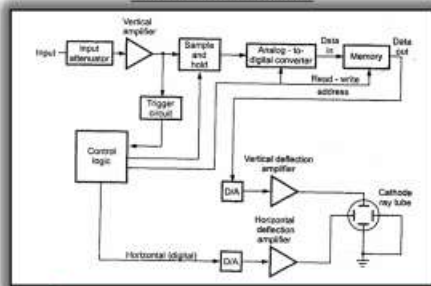
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

# DIGITAL STORAGE OSCILLOSCOPE

### BLOCKDIAGRAM



### WORKING

1. Signal Input: Connect the probe to the circuit.
2. ADC Conversion: Analog signals become digital through ADC.
3. Sampling: Regular intervals create a digital waveform.
4. Storage: Digital samples are stored for analysis.
5. Display: Processed data is shown on the screen.
6. Triggering: Captures specific signal events.
7. Signal Processing: Applies DSP techniques for measurements.
8. User Interface: Adjust settings through a user-friendly interface.
9. Output: Processed waveform is displayed for analysis.

### Advantage

- Infinite storage time
- Easy to operate
- Signal processing is possible

### Application

- Used to analyse tv waveform
- It can be used to measure AC as well as DC voltage & current





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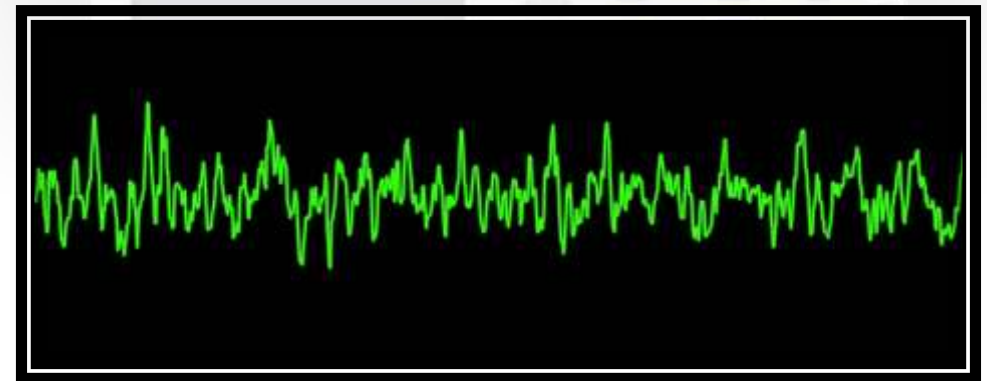
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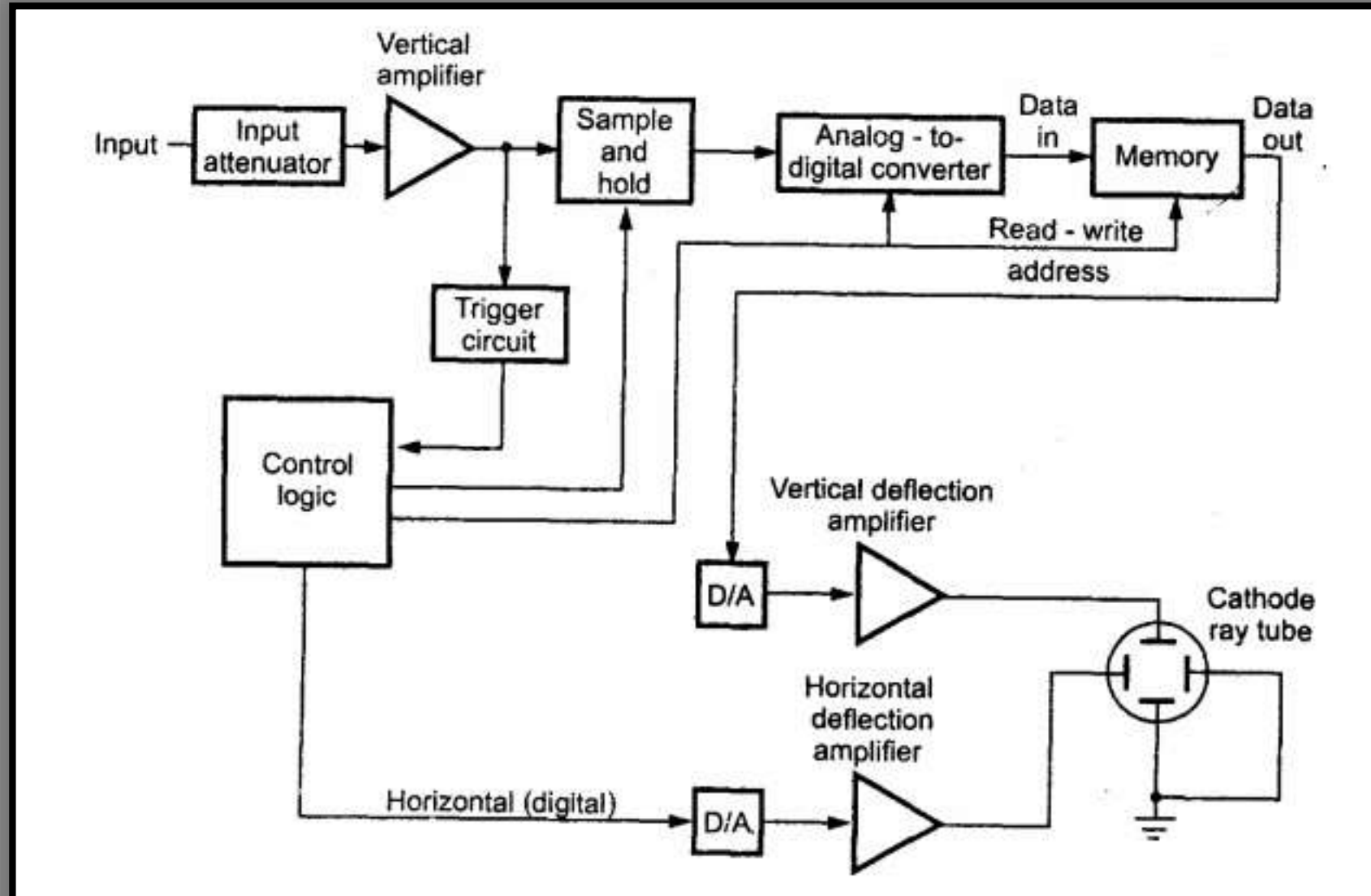
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