

2. Introduction to the Oscilloscope

Introduction

In this experiment you will be introduced to the oscilloscope – a piece of equipment that is found in the majority of science research laboratories. You will learn how to operate its controls and make simple measurements of a signal waveform.

Oscilloscope Overview

An oscilloscope is an instrument that measures the potential difference (voltage) across a component as a function of time. It is used to record data from electrical sensors, visualize the waveform generated by instruments and to troubleshoot and fix electronic devices.

These days, most oscilloscopes are digital and allow information to be stored on the oscilloscope itself or on a computer. They are capable of displaying two or more signals (channels) at the same time. The input connectors (CH 1 and CH 2) are BNC (Bayonet Neill-Concelman) connectors. In this experiment we will use the Rigol DS1052E digital oscilloscope. The waveforms that we will be analysing will be produced by a function generator (BK Precision function generator) connected to the oscilloscope.



Figure 1: The Rigol DS1052E digital oscilloscope.

Army Oscilloscope Manual

Mark Steyvers

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

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