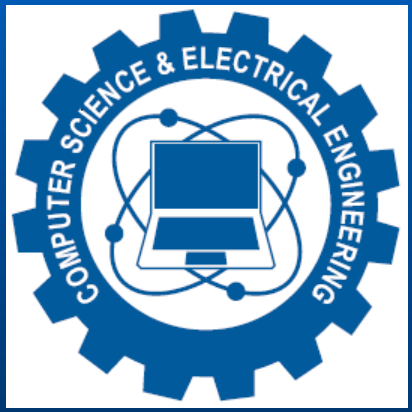
Oscilloscope



What is an oscilloscope?

- **electronic test equipment that allows observation of constantly varying voltages, as a two-dimensional graph of one or more voltages using the vertical or *y*-axis and plotted as a function of time (horizontal or *x*-axis).**
- **used to observe the exact wave shape of an electrical signal to allow for the measurement of *peak-to-peak* voltage of a waveform, the *frequency* of periodic signals, the time between pulses, the time taken for a signal to rise to full amplitude (*rise time*), and relative timing of several related signals.**

Controls


POWER
TRACE ROTATION
INTENSITY
FOCUS
CAL .5V
TIME/DIV
XY
SWP VAR
MAG UNCAL
CAL
POSITION
PULL ×10 MAG
MODE
AUTO
NORM
TV-V
TV-H
LEVEL
PULL (–) SLOPE
SOURCE
INT
LINE
EXT
TRIG IN
300V pk MAX
VAR
PULL ×5 GAIN
VOLTS/DIV
CAL
POSITION
DC BAL
MODE
CH2
ALT
CHOP
ADD
CH1
INT TRIG
CH1
CH2
VERT MODE
POSITION
PULL INVERT
DC BAL
VAR
PULL ×5 GAIN
VOLTS/DIV
CAL
CH1 OR X
CH2 OR Y
INPUT
300V pk MAX
AC
GND
DC
INPUT
300V pk MAX
AC
GND
DC

Control Descriptions

- ***Power*** **button: turns the device on/off**
- ***Focus*** **knob: sharpens the image on screen**
- ***Intensity*** **knob: brightens/dims the screen**
- ***Time/Div*** **switch: calibrates the internal horizontal sweep to the external waveform for visual measurement.**
- ***Horizontal Positioning*** **knob: positions the image horizontally.**
- ***Horizontal Trigger Mode*** **switch: sets the triggering mode.**

Control Descriptions

- ***Horizontal Trigger Source*** **switch: selects the trigger source.**
- ***Horizontal Trigger Level*** **knob: selects when the trigger will occur when in trigger source is external.**
- **Ch1 *Input* Port: input voltage connection for Ch1**
- **Ch1 *Volts/Div* knob: calibrates the internal vertical sweep to the external waveform for visual measurement.**
- ***Vertical Positioning*** **knob: positions the image vertically.**

Control Descriptions

- ***AC/DC*** **coupling switch: selects AC or DC.**
- ***Mode*** **knob: selects which channel will be displayed.**
- ***INT TRIG*** **(Internal Trigger Source) switch : selects which channel will trigger the vertical sweep.**