

Dual Display and the 10X Probe

Set the FUNCTION button on the function generator for a square wave output and adjust the amplitude of the signal so that the peak-to-peak voltage is about 5 volts. Connect the BNC to the alligator clips cable to the TTL BNC output on function generator. Connect the 10X probe to the CH 2 input. Connect the center tip of the 10X probe to the Red alligator clip on the cable and the Black clip to the alligator clip on the 10X probe. Measure the peak-to-peak voltage of the TTL square wave signal.

AC and DC Coupling

Slide the CH 1 switch to GND position and note what happens to the signal. The GND signifies “ground”. Grounding the oscilloscope removes the input from the amplifier circuit and allows the user to “zero” oscilloscope.

Adding and subtracting signals

Set both channels to DC coupling and slide the Mode switch to display both signals. Measure the peak-to-peak voltages for each signal and record the values. slide the middle MODE switch to the CH 2 INV position observe the effect on the signal displayed on Channel 2. When the two signals are added, resultant amplitude may be larger than can be displayed on the screen.

Measuring the period of a signal

Measure the period of the waveform as displayed on the CRT face.