

# Light Studio Guide

- ✓ Setting Background (for Sine, Triangle, and Pulse) and/or Intensity (for Continuous)
  - Light intensity is set in %.
  - Tune the knob or enter the digital value.
  - The absolute value is counted automatically (depending on calibration) and displayed.

- ✓ Setting Amplitude, Period, and Width
  - Amplitude is set in %.
  - Period is set in time units (seconds, minutes, hours).
  - Width is set in %.
  - Width is active for the Pulse mode only.

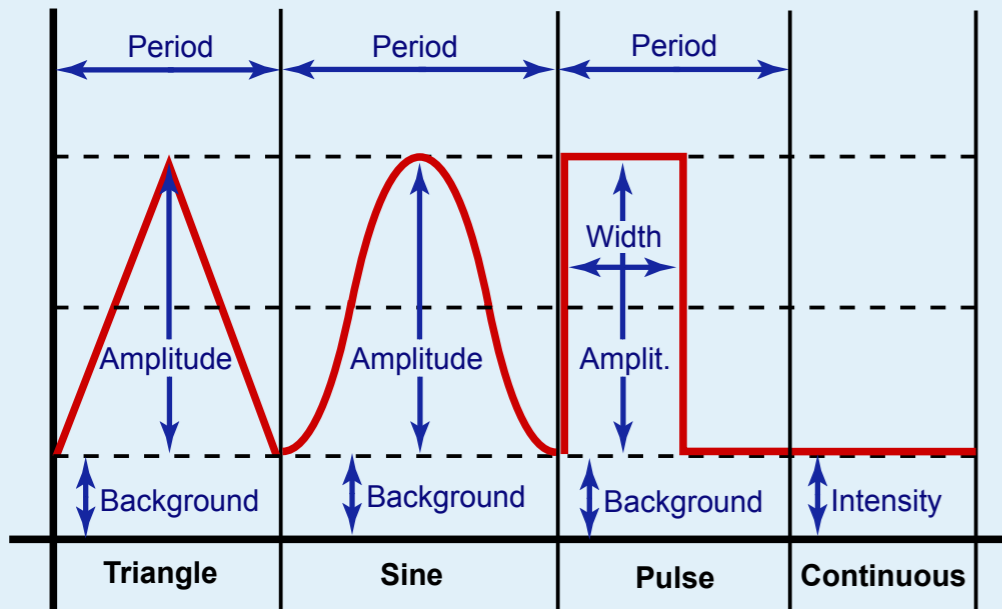
- ✓ Creating a Protocol
  - Enter time in minutes.
  - Three different timing steps can be programmed.
  - Check the box to activate steps 2 and 3.
  - Each step can be repeated.
  - Enter the number of repetitions or check the box "Repeat forever".

- ✓ Starting Experiment
  - Separately for each single light.
  - For all lights at the same time.

- ✓ Up to four independent light sources can be controlled:
  - Light 1
  - Light 2
  - Light 3
  - Light 4

- ✓ Four light modes are available:
  - Continuous
  - Sine
  - Triangle
  - Pulse

## Light Curve and Symbol Visualization



- ✓ Calibration startup:
  - Use if changing the distance between the sample and the light source. The default distance = 20 cm.

- ✓ Status bar:
  - The color of rectangles reflects the actual light intensity of the corresponding light source.

The screenshot shows the Light Studio 1.4 software interface. The interface is divided into four sections for Light 1, Light 2, Light 3, and Light 4. Each section contains settings for mode, background/intensity, amplitude, period, width, and a protocol table. A status bar at the bottom shows light devices connected and a Calibrate button.

Light	Mode	Background/Intensity	Amplitude [%]	Period [s]	Width [%]	On [min]	Off [min]	Repeat
Light 1 - In Progress	Sine	50%	50	10	50	10	10	1
Light 2	Pulse	25%	50	10	50	2	2	1
Light 3	Continuous	0%	50	10	50	2	2	1
Light 4	Continuous	0%	50	10	50	2	2	1