

PYRO-D-Lite 10 Cue Universal Sequencer

Manual

V 1.2



This product will allow you to add unique effects with your fireworks shows using your current firing system. With this device you will be able to add sequencing programs such as: Fire All, Same time between cue delay, and different time delay between cues. The system when used as designed and cared for will provide years of use.

Congratulations in choosing the best consumer sequencer available.

Program Modes

All Fire: Upon the sequencer being triggered, it will fire all 10 cues at once.

Same Time Delay: Upon the sequencer being triggered, it will fire what ever time delay that you choose between every cue. (Time delay can be any time between .01 and 9.99 seconds)

Variable Time Delay: This advanced function allows you to program different times between every cue. In this mode you can control the tempo of the show without the need of constantly pushing buttons. (Time delay can be any time between .01 and 9.99 seconds)

Power Requirements

This device may be powered by using (2) 9V batteries. In this power mode, you will be able to fire 1 igniter per cue.

For the consumers who require a higher voltage output, you may use any external battery to power the sequencer between 12 and 24 volts. At this voltage level, you may be able to fire more than 1 igniter per cue. Use of the external battery will require the use of the 2 power adaptor plugs which are provided.

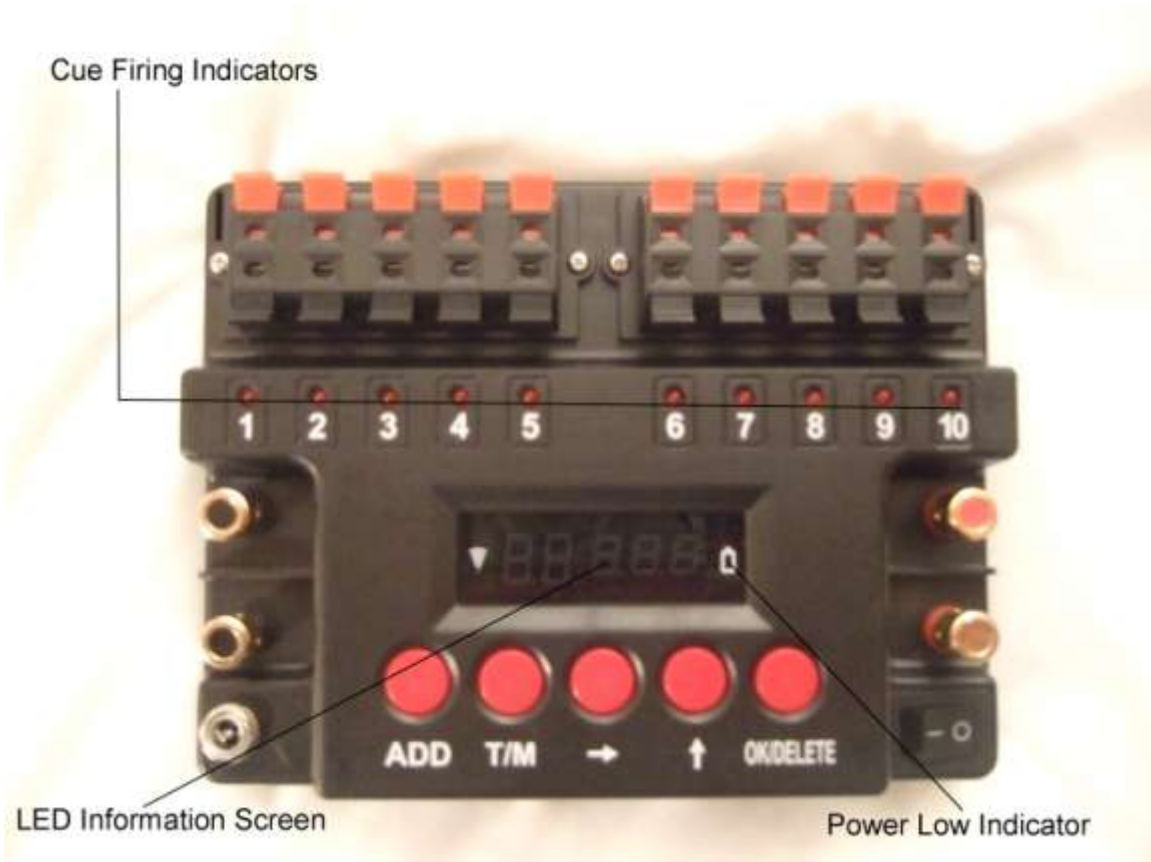
Auto Igniter Check: When you power the system on, the unit will begin to automatically run a continuity test on all cues including the output trigger. Any cues with faulty igniters or wires will indicate with the LED reading, E and the faulty cue number. If all cues pass and the output trigger is connected to a second system or sequencer, then the LED will read: PAS. You do not need to have the output trigger connected to anything unless you want it to trigger a cascading daisy chain to secondary systems.



Programming

- 1.) To set program mode you push the OK/Delete Button until the LED screen reads SA 0.00
- 2.) SA 0.00 stands for same time delay between cues. You can cycle through the number places by pushing the (Right Arrow) button. The first digit before the decimal is the whole second place. You push the (UP Button) to select a number. (ex, a 1 in this place indicates a 1 second delay between every cue) You can then push the (Right Arrow Button) again to select the next number to the right of the decimal.
- 3.) To reset any pre-programmed time code, simply push and hold the OK/Delete Button until the LED screen shows SA 0.00.
- 4.) How to set the time code where you have different time delays between cues.
 - 1) Push the OK/Delete button until you see SA 0.00.
 - 2) Push the Right Arrow button until the first 0 is flashing.
 - 3) Press the T/M button. The LED will indicate 01_0.00. The 01 indicates the 1st cue. Then scribe through the Right and UP buttons till you have a number between 0.01 and 9.99. This is the time delay between the first and second cue. When you have the number entered, press OK/Delete.
 - 4) The LED will now read: 02_0.00. This indicates you are ready to program the time delay between cues 2 and 3.
 - 5) Eventually you will see the LED indicate 10_0.00. This serves as the time delay between the 10th cue and the output trigger. (This is how you can daisy chain thousands of these sequencers together) When you enter this time and hit OK/Delete the LED will read D / DIF which stands for Delay different mode. When the system detects a voltage pulse between 6V and 30V, the sequencer program will execute.
 - 6) To Program "ALL" mode push the OK/Delete button until the LED reads SA 0.00. You then keep pushing the Right arrow button until you scribe completely through all the digits and you see the LED read "ALL" . In this mode, as soon as the system detects a volt pulse between 6V and 30V, every Cue (including the output trigger) will fire.

- 7) Dormancy MODE: This system has a built in power conservation mode by where the LED will not light. Additionally, the firing LEDs will not light during firing. The system will still fire however. The dormancy mode is there to conserve power and since you only need to see the LED and firing LEDs during programming and testing there is no need to for these lights during actual operation as you won't be near the units during the show.



Sample Setups

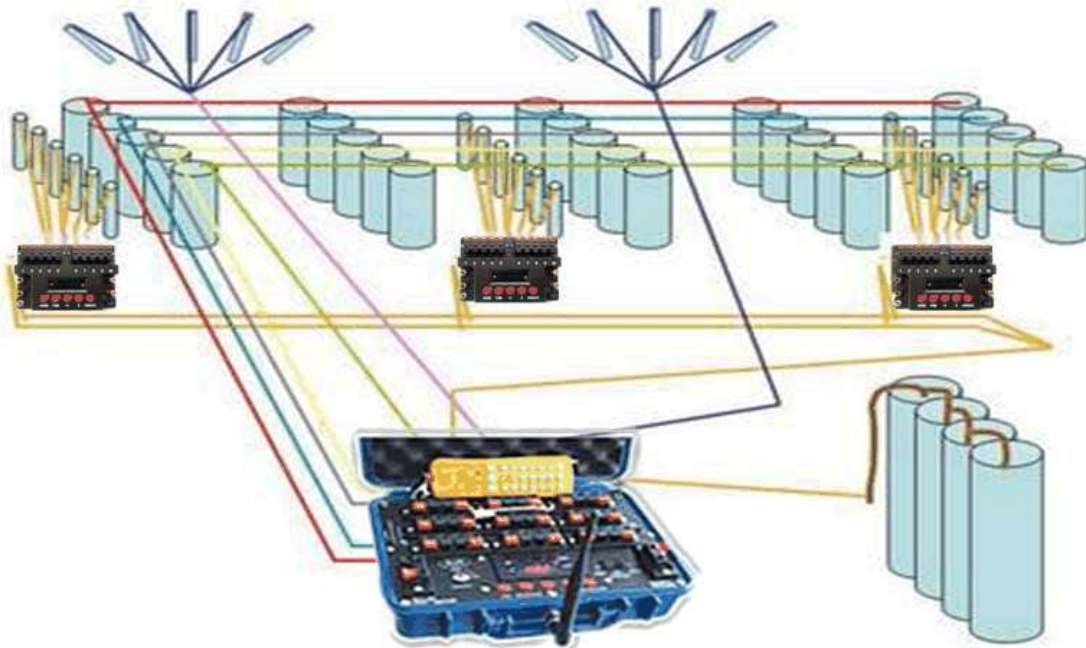
Pyro-D-Lite Universal Sequencer

← Infinite Number of Sequencers →



Firing System
Connected to the
input on the first
sequencer

Pyro-D-Lite Universal Sequencer



Trouble Shooting

1) Low Power Indicator is Flashing:

System is detecting depleted batteries or external battery connection is poor. Replace with fresh batteries or recharge external battery. If the external power port is used, ensure that there is a good connection.

2) System will only light 1 igniter per cue:

System is being powered by (2) 9 volt batteries or the 12 volt to 24 volt external power source needs to be recharged.

3) After a few minutes of being left on, the LED screen goes off:

The System is in Dormancy mode and is operating properly. The unit will fire as programmed to. **Pushing any of the program buttons will “wake up” the unit.**

4) When initially powered up, the LED is reading

E #:

The system is operating as designed and is completing the continuity checks. Number after the E indicates a faulty igniter or e-match. Replacing the indicated cue with a good e-match or igniter will fix this. When all cues pass this **test, the words, “PAS” will display.**

** If you are not connecting the external output terminals to a second sequencer or triggerable system like the pyro-d-lite 18 cue, you will see an E-10 code. This indicates that the system does not detect any device in the external output to daisy chain. (You may not have anything in this terminal depending on your needs. If you do not need to daisy chain, you may use this terminal as an 11th cue.

The firing indicator LEDs is illuminated all the time regardless of whether or not anything is connected to the cue. This indicates a burnt-out cue circuit from a high amperage direct short. The system has been destroyed due to user negligence and must be replaced.