

Thank you for buying the new **VariVolt Plus** fiber optic control board! The **VariVolt Plus** is the first global universal light source board that is designed to optimize both Xenon and LED Lamps. Please read this manual thoroughly before operating or installing.

**Technical data:**

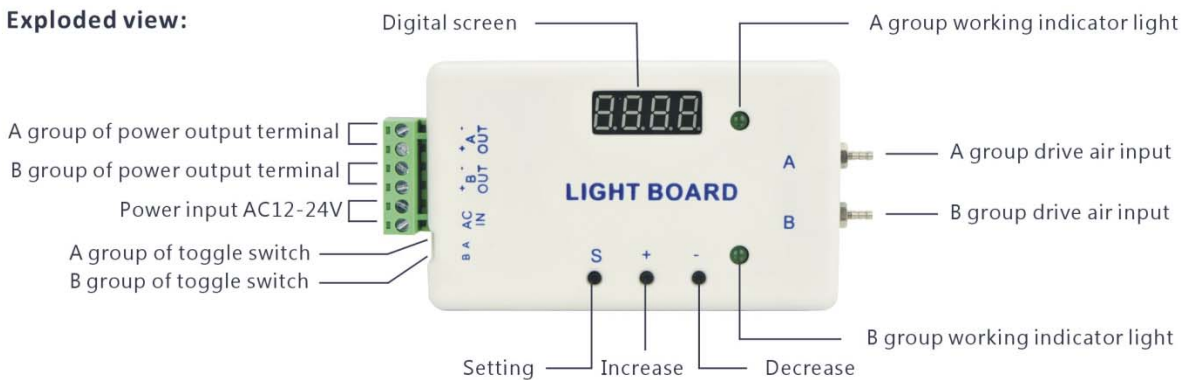
Power Input: 12-24V/AC

Power Output: 2.5-4V or 30-160mA

Dimension: L130xW67xH22mm

Weight: 123g

**Exploded view:**



**General Information**

1. The digital screen displays five groups of data.
  1. Production Batch: For example: "1401" stands for January, 2014.
  2. Input power - "A" group: For example: "A 3.5" = group A 3.5 volts
  3. Time delay - "A" group
  4. Input power - "B" group: For example: "b 130" = group B 130mA
  5. Time delay - "B" group



2. this image is of the "Toggle Switch". If you are using the Xenon lamp, the toggle switch is up toward the top. If using the LED Lamp, the toggle switch is down toward the bottom. As shown in picture, A port = Xenon and B port = LED Lamp
3. The original factory settings are:
  - a. Xenon = 3.5V (note with Xenon bulbs the concern is voltage)
  - b. LED = 130mA (note with LED bulbs the concern is AMPS)
  - c. time delay = 5 seconds.

## Operation / Installation Procedure:

Before starting installation, check the type of bulb the dentist is using Xenon or LED lamp. If Xenon, toggle the switch toward the top. If LED lamp, toggle the switch toward the bottom for the handpiece group you are installing.

1. Connect the power input to 12-24V/AC, the production batch number will display.
2. You can adjust "A" and "B" output voltage (if Xenon is selected) or current (if LED is selected)

**Setting the Voltage or Current:** Press the settings "S" button until the voltage or current appears on the screen. When the reading appears you can adjust the voltage from 2.5 to 4 volts or from 30 – 160mA using the adjustment screw for the appropriate port.

**Setting the time delay:** Press the settings "S" button until the time delay appears. Use the adjustments screw for the appropriate group to increase or decrease the time delay.

**The adjustment sequence ("S" button) is:** "A (or B) port power output, A (or B) port time delay.

After finishing each adjustment period, press the "Setting" button to confirm.

**Connecting the tubing / signal air:** Using an in-line "T" splice the drive line of the handpiece tubing, insert the "T" and connect a 1/16" supply line tubing from the "T" to the "A" or "B" input on the VariVolt Plus control board, this is the "signal air". The A or B will correspond to A and B control group respectively. Connect the power lead wires of the fiberoptic tubing to the power leads on the power pack, one lead to + and one lead to -. **Note: halogen/xenon bulbs do not have a polarity, LED bulbs do. If the LED bulb does not light up reverse the + and – connections and try it again.** Try and make all connections the same in one office as to not cause confusion for the dentist when replacing bulbs.

Control board has a 1 year limited warranty.

### Control Board:

Manufactured in China for Vector R & D Inc.

### Power Adapter:

AC 120v 60Hz  
Output AC 12v 1000mA  
cUL listed E1400898, Rohs  
Made in China