

Upowertek Programmable LED Driver Introduction

Make Smart Lighting Simple and Reliable

November, 2021

Cable Programming System

uPowerTek



Cable Programmer



**Cable Programmable LED driver
30-800W**



◆ **Programmability:**

Either the output current or the timing, CLO scheme can be set by PC software

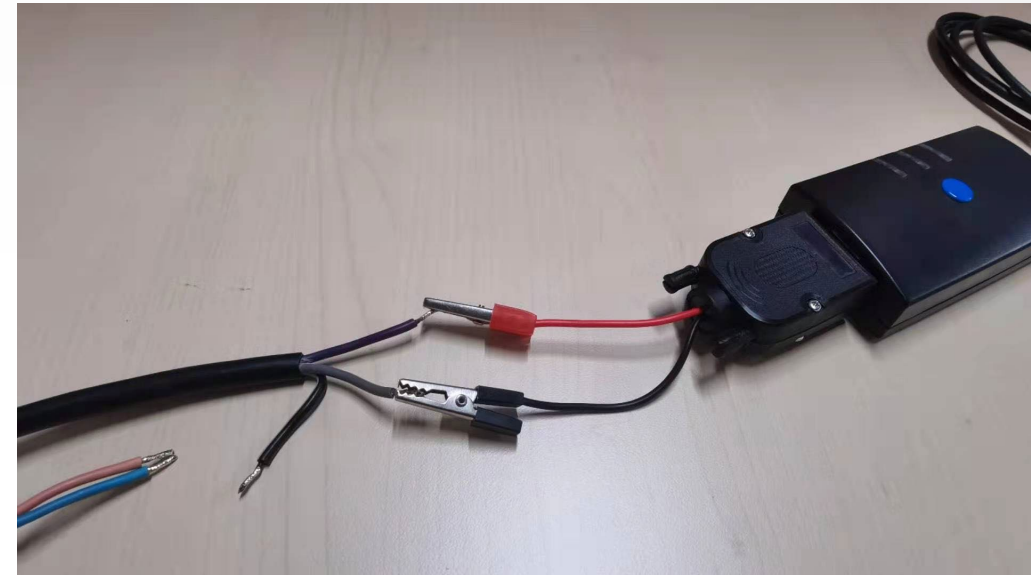
◆ **Adjustable Current with Constant Power**

Allows user to decrease the output current setting without sacrificing the output power capability

◆ **Timing&CLO(constant lumen output) Scheme**

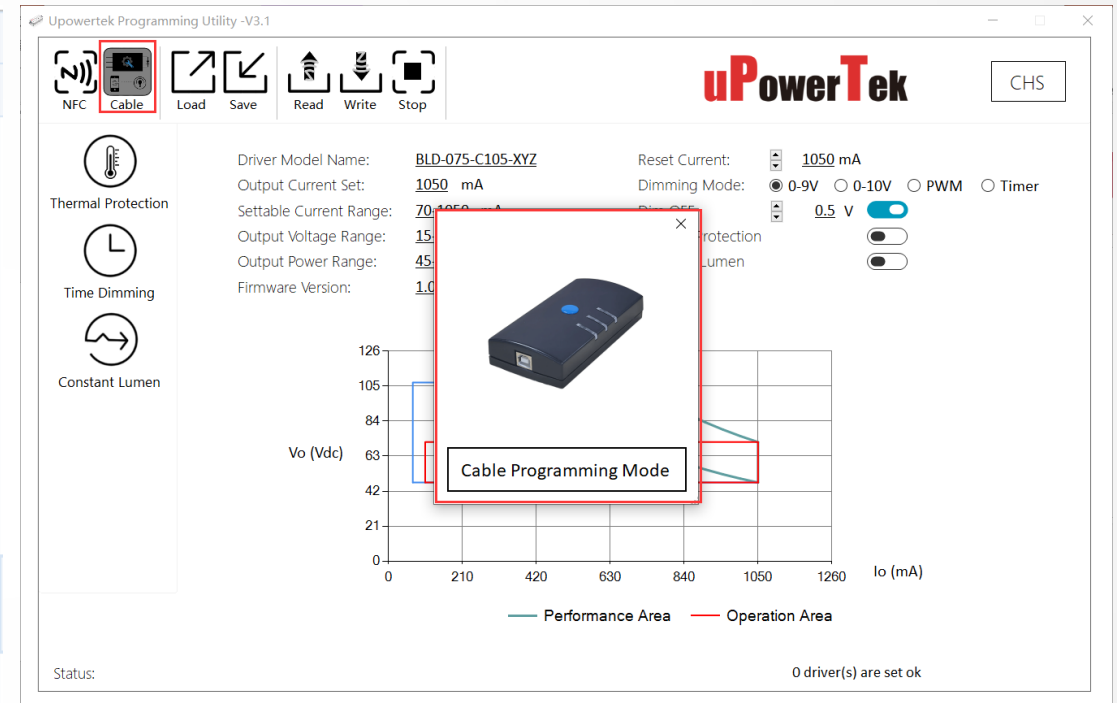
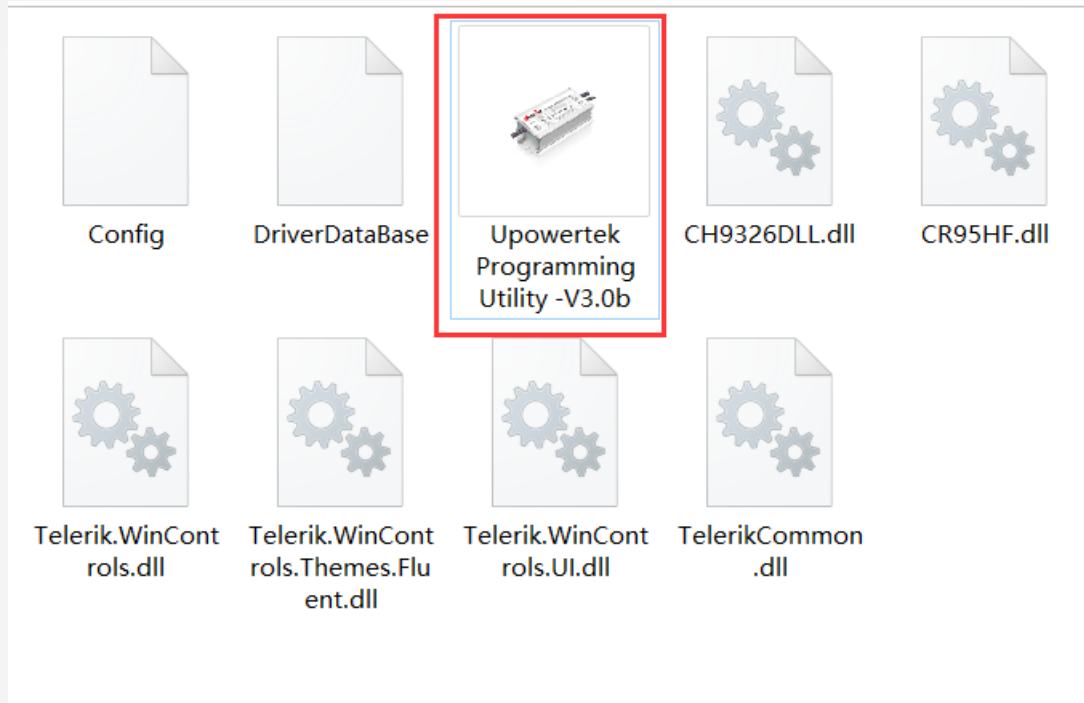
Allows user to set the timing/CLO profile of LED driver

1. Wiring



- ◆ Connect the programmer to computer by USB cable
- ◆ Connect the dimming wire +(Purple) and – (Gray) of the LED driver to the cable programmer (Red +, Black -)

2. Open Software



- ◆ Download PC Software at <https://www.upowertek.com/download-2/>
- ◆ Click Upowertek Programming Utility –V3.1 in Windows 7/8/10 System
- ◆ The GUI start and notify you the programming mode (cable programming or NFC programming)
- ◆ Click “Cable” button if it’s not Cable programming mode.

3. Read the Spec of the LED Driver

- ◆ Click “Read” button, there will be a green check mark after the operation.
- ◆ Then the software will show the correct model number and output current.
- ◆ Click Stop button after reading Ok.

The screenshot shows the 'Upowertek Programming Utility -V3.1' window. The 'Read' button in the top toolbar is highlighted with a red box. The main interface displays the following specifications:

Driver Model Name:	BLD-075-C105-XYZ	Reset Current:	1050 mA
Output Current Set:	1050 mA	Dimming Mode:	0-9V (selected), 0-10V, PWM, Timer
Settable Current Range:	70-1050 mA	Dim OFF:	0.5 V (selected), [toggle]
Output Voltage Range:	15-25 Vdc	Thermal Protection:	[toggle]
Output Power Range:	45-75 Watt	Constant Lumen:	[toggle]
Firmware Version:	1.0		

Below the specifications is a graph of Output Voltage (Vo) in Vdc versus Output Current (Io) in mA. The graph shows two regions: a 'Performance Area' (green line) and an 'Operation Area' (red rectangle). The Performance Area starts at approximately 105V at 0mA and drops to about 45V at 1050mA. The Operation Area is a rectangle from 0 to 1050mA and 45V to 65Vdc.

At the bottom left, the status bar reads: "Status: Error, No Programmer detected".

4. Set Output Current

- ◆ Set the output current in the “Reset Current” function area

Upowertek Programming Utility -V3.1

NFC Cable Load Save Read Write Stop

uPowerTek CHS

Driver Model Name: BLD-075-C105-XYZ

Output Current Set: 1050 mA

Settable Current Range: 70-1050 mA

Output Voltage Range: 56 - 94 Vdc

Output Power Range: 45 - 75 Watt

Firmware Version: 1.0

Reset Current: 800 mA

Dimming Mode: 0-9V 0-10V PWM Timer

Dim OFF: 0.5 V

Thermal Protection:

Constant Lumen:

Thermal Protection

Time Dimming

Constant Lumen

Vo (Vdc)

Io (mA)

— Performance Area — Operation Area

Status: Error, No Programmer detected

5. Write the Spec

- ◆ Click “Write” button and complete the programming.
- ◆ If there are lots of drivers need to be set, disconnect the wire and connect another LED driver, then click “Write” button

Upowertek Programming Utility -V3.1

NFC Cable Load Save Read **Write** Stop

uPowerTek CHS

Thermal Protection
 Time Dimming
 Constant Lumen

Driver Model Name: BLD-075-C105-XYZ
 Output Current Set: 1050 mA
 Settable Current Range: 70-1050 mA
 Output Voltage Range: 56 - 94 Vdc
 Output Power Range: 45 - 75 Watt
 Firmware Version: 1.0

Reset Current: 800 mA
 Dim Mode: 0-9V 0-10V PWM Timer
 Dim OFF: 0.5 V
 Thermal Protection:
 Constant Lumen:

Vo (Vdc) vs Io (mA) graph showing Performance Area (blue line) and Operation Area (red box).

Status: No programmer detected

Thank you for your attention!

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