



**IRTRONIX**  
Global Partner in UV LED Solutions



# UV COB DRIVER SPECIFICATIONS

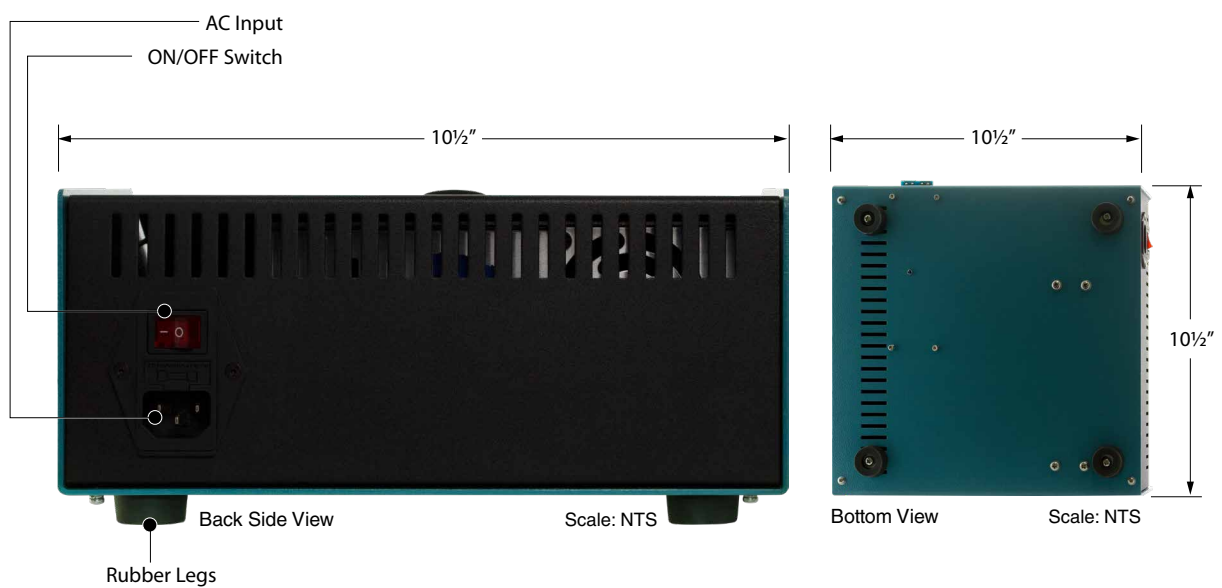
Model No. : UV1010CD

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### 1. Description

The UV1010CD is a complete system developed for the purpose of evaluating IRTRONIX 200W UVA LED COB modules. The system consists of a driver box, which houses an UL approved AC to DC power supply and the associated driver printed circuit board. The driver board in addition to driving the UV LED COB, it also drives the DC fan, which is mounted to the heatsink and UV COB assembly. The unit has four selectable current setting for the UV COB, which are 2.0A, 2.5A, 3.0A, and 3.5A from a rotary switch.

There are 2 panel mounted meters, the one on the right shows the COB voltage, and the one on the left shows the COB current, which corresponds to the rotary switch setting above. Accuracy of the current reading is within +/-4% of the setting.

Connection to the UV LED COB module and fan assembly are made with 2 cable connectors, which plug into the mating ones on the driver box. A detachable power cord is provided to connect the driver box to the AC line voltage outlet. The unit is design to accept AC line voltage from 90Vac to 264Vac with built in ON/OFF switch and protected fuse.

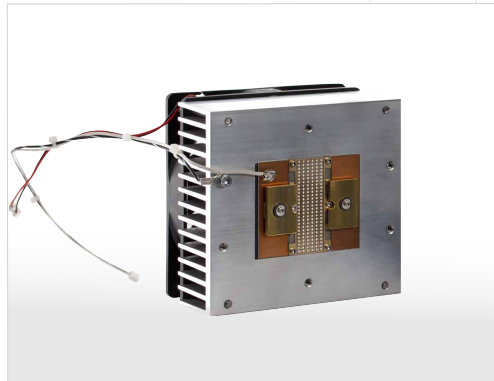
### 2. Application



UVA LED COB MODULES

Scale:NTS

### 3. Standard UV LED COB Modules



PERSPECTIVE VIEW



FRONT VIEW

### 4. Operating Procedures

**Below are steps to set up the test: (refer to the picture below for clarification)**

- 1) Connect the 2 connectors from the UV LED COB, heatsink, fan assembly to the appropriated ones on the driver box.  
**Note: Make sure the connector from the fan leads is plugged into the one marked "FAN", and the one marked COB to the cable connector from the COB module.**
- 2) Select the drive current desired from the rotary selector switch.
- 3) Make sure the AC line ON/OFF switch in the back of the box is at OFF position.
- 4) Plug in the provided AC power cord to the box.
- 5) Plug the other end of the AC power cord to the AC voltage outlet.
- 6) **Direct exposure to UV light is harmful to human, especially to the eyes, thus requires the users to wear protective glasses when working with the unit.**
- 7) Switch the AC input switch to ON position.
- 8) Note that the UV LED COB lights up and the fan is running.
- 9) The 2 panel mounted LED meters are lit up and show 59.5V (+/- 1.2V) on the right meter, and left panel meter shows the current corresponding to the current setting by the rotary switch.
- 10) Rotate the COB current setting switch to other settings and note the current meter responds accordingly.
- 11) The unit is now ready for any application testing.
- 12) After testing is complete, turn off the AC ON/OFF switch.