

## **Bench Xenon Test Chamber : 1.8 KW Xenon Lamp; 1,000cm<sup>2</sup> exposure area**

**BGD 865-A**

### **Product Description**

BGD 865 is a small, simple and economic xenon test chamber. It uses a low power air-cooling xenon lamp to produce enough big irradiance energy in a small space. Moreover, through a special catoptrical system to ensure every exposure sample get the homogeneous irradiance distribution.

BGD 865 is equipped with extended UV filters, thus permit UV which is below the normal cut-on of natural sunlight to pass equal to simulate sunlight which doesn't come through atmosphere. They are used to produce faster or more severe test results. This test is called as "Artificial Accelerated Weathering Test"

Operator can set all required test parameters Irradiance, test time, BPT etc through the touch screen, and can check its running status at any time. All running parameters can be exported to computer through the USB interface.



### **Standards**

Please note that this test chambers intended use is for reference testing only.

### **Technical Specification**

- Small Size, easy to install, use and practically maintenance-free.
- The xenon light source correspond with international standards; ensure reproducibility and comparability of testing results.
- Irradiance energy can be accurately controlled. The "**Sun Eye**" control system can automatically compensate the change of light intensity caused by ageing or other factors.
- Users can easily calibrate and adjust the irradiance or the blackboard temperature by themselves.
- With High precision Pt100 Temperature sensor. Blackboard temperature is auto-controlled during the whole process
- Alarm function for protection Over temperature, over heating load, big error for irradiance, auto shut-down protection when opening door.
- Touch screen and user-friendly operation interface allow operator to set the test parameters and monitor all the test process easily.
- Specimen mounting and evaluation is fast and easy With unique slide-out specimen tray
- Real-time data can be collected and recorded. The incidental USB connector allow users to copy the test data into a USB

**Bench Xenon Test Chamber : 1.8 KW Xenon Lamp;  
1,000cm<sup>2</sup> exposure area  
BGD 865-A**

drive, achieving unattended operation.

## **Bench Xenon Test Chamber : 1.8 KW Xenon Lamp; 1,000cm<sup>2</sup> exposure area**

**BGD 865-A**

### **Main Technical Parameters**

---

- Xenon Lamp one 1.8KW xenon lamp USA
- Filter Extended UV filter Optional: choose daylight filter or window glass filter
- Irradiance monitor Methods 340nm or 420nm Narrow band or 300nm 400nm Broad band Choose before ordering
- Lamp Lifetime Approx. 1,500 hours
- Exposure Area 1,000 cm<sup>2</sup> (can put 9 standard samples 150×70mm)
- Adjustable Irradiance Range
- Lamp (USA) 50W/m<sup>2</sup> 120W/m<sup>2</sup> 300nm 400nm or 0.3 W/m<sup>2</sup> 1.0 W/m<sup>2</sup> @ 340nm or 0.5 W/m<sup>2</sup> 1.8 W/m<sup>2</sup> @ 420nm
- Interior Material of Chamber Stainless steel -SUS 304 material
- Exterior Material of Chamber Powder coating
- Overall Size 950×530×540mm L×W×H
- Net Weight 93KG 130KG Gross weight
- Power Supply 220V 50/60HZ Alternative Max. Current 16A Max.Power 2.6 KW
- Ordering Information:
  - BGD 865/A: Bench Xenon Test Chamber Equipped with American lamp
  - BGD 865: Bench Xenon Test Chamber Equipped with Chinese lamp)

### **Accessoires**

---

- BGD 8140 - Calibration Radiometer (Xenon) 340 nm
- BGD 8141 - Calibration Radiometer (Xenon) 420 nm
- BGD 8142 - Calibration Radiometer (Xenon) 300-400 nm
- BGD 8156 - American Xenon lamp, Air-cooled, 1.8KW

### **Disclaimer**

---

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development