

## Bench Xenon Test Chamber

**B**GD 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.

### Characters

- ◆ 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 **"Closed-Loop"** 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 black panel temperature by themselves.
- ◆ With High precision Pt100 Temperature sensor. Black panel temperature is auto-controlled during the whole process
- ◆ Alarm function for protection: Over temperature of BPT, big error for irradiance, auto shut-down protection when opening door, protection for too low air pressure
- ◆ 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 drive, achieving unattended operation.

### Main Technical Parameters:

- ★ Xenon Lamp: one 1.8KW xenon lamp imported from America
- ★ Filter: Extended UV filter ( Also can choose daylight filter or window glass filter )
- ★ Irradiance monitor methods: 340nm or 420nm ( Narrow band ) or 300nm ~ 400nm ( Broad band ) ( Choose anyone before ordering )
- ★ Lamp Lifetime: Near 1,500 hours
- ★ Exposure Area: 1,000 cm<sup>2</sup> (can put 9 standard samples 150 × 70mm)
- ★ Adjustable Irradiance Range: 30W/m<sup>2</sup> ~ 100 W/m<sup>2</sup> (300~400nm) or 0.3W/m<sup>2</sup> ~ 0.8 W/m<sup>2</sup> (@340nm) or 0.5W/m<sup>2</sup> ~ 1.5 W/m<sup>2</sup> (@420nm)
- ★ Adjustable Black Panel Temperature Range: RT+20°C ~ 90°C ( Depends on environment temperature and setting irradiance value )
- ★ Interior Material of Chamber: Stainless steel –SUS 304 material
- ★ Exterior Material of Chamber: Powder coating
- ★ Overall Size: 950mm × 570mm × 540mm
- ★ Net Weight: 93KG ( 130KG Gross weight )
- ★ Power Supply: 220V 50/60HZ ( Alternative )
- ★ Max Current: 12A
- ★ Max.Power: 2.5 kW
- ★ **Ordering Information:**
- BGD 865/A---Bench Xenon Test Chamber
- BGD 8156--- American Xenon Lamps ( 1.8 kW )



Operation Menu



Scan for video