

Xenon Test Chamber: 6.5KW; PLC auto-control; Atlas xenon lamp

BGD 862 PLUS

Product Description

BGD 862 Plus is a multifunctional, large xenon light accelerated weathering tester equipped with a high-power (6.5KW), water-cooled xenon lamp, providing an exposure area of 6,500cm²

- Complies with all international standards for xenon testing
- Equipped with xenon arc lamp, filter, and components from USA brands, ensuring consistent and reliable test results comparable to imported machines
- Features an automatic rotating drum-type sample rack with a three-floor structure to maximize exposure uniformity across all specimens
- The large exposure area of 6,500cm² accommodates samples of various shapes and sizes • Allows setting the cumulative energy (total irradiance energy) obtained by the sample to complete a test procedure
- Incorporates an advanced cooling system for the xenon lamp and an intelligent air system
- Offers operation windows in both Chinese and English
- Remote Monitoring and Cloud Data Services
- Enables remote monitoring of all Xenon Test Chamber running conditions and stores data in Cloud Server for convenient data management
- The mobile app allows users to monitor the instrument's operation at any time



Standards

- ISO 11341 "Paints and varnishes - Artificial weathering and exposure to artificial radiation - Exposure to filtered xenon-arc radiation"
- ISO 12040 "Graphic Technology - Prints and Printing Inks - Assessment of Light Fastness Using Filtered Xenon Arc Light"
- ISO 16474-1 "Paints and varnishes -- Methods of exposure to laboratory light sources -- Part 1: General guidance"
- ISO 16474-2 "Paints and varnishes -- Methods of exposure to laboratory light sources -- Part 2: Xenon-arc lamps"
- ASTM D3451 "Standard Guide for Testing Coating Powders and Powder Coatings"
- ASTM D3794 "Standard Guide for Testing Coil Coatings" • ASTM D4303 "Standard Test Methods for Lightfastness of Pigments Used in Artists' Paints"

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- ASTM D5010 "Standard Guide for Testing Printing Inks and Related Materials"
- ASTM D6577 "Standard Guide for Testing Industrial Protective Coatings" • ASTM D6695 "Standard Practice for Xenon-Arc Exposures of Paint and Related Coatings"
- ASTM G151 "Standard Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources"
- ASTM G155 "Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials"
- ISO 4892-1 "Plastics – Methods of Exposure to Laboratory Light Sources – Part 1: General guidance"
- ISO 4892-2 "Plastics - Methods of Exposure to Laboratory Light Sources - Part 2: Xenon-arc lamps"
- SAE J2412 "Accelerated Exposure of Automotive Interior Trim Components Using a Controlled Irradiance Xenon-Arc Apparatus"
- SAE J2527 "Accelerated Exposure of Automotive Exterior Materials Using a Controlled Irradiance Xenon-Arc Apparatus"

Technical Specification

- Allows setting and accurate control of irradiance energy (340nm, 420nm, 300nm–400nm, 300nm–800nm)
- The "Solar Eye" control system monitors and automatically compensates for changes in light intensity due to aging or other factors
- Automatically sets and controls working room temperature, BPT (black panel temperature), and BST (black standard temperature) with high precision Pt 100 temperature sensors
- Automatic setting and control of working room relative humidity with an ultrasonic wave humidifying system for stable and uniform humidity distribution
- Enables setting spray methods to the sample (front or back spray), spray time, and spray interval time
- Features a colorful touch screen and a user-friendly operation interface for easy parameter setting and monitoring
- Allows programming of test procedures, with the ability to save up to 6 predetermined procedures at a time
- Operators can customize test programs, with the ability to edit up to 9999 programs, each containing 30 different working conditions
- Equipped with a USB interface for exporting test parameters in Excel format, allowing convenient monitoring of B-SUN's status
- Includes a pure (deionized) water machine for reliable testing results, with alarm function for monitoring water
- Offers customization of test sample shelf size and clamping mode according to customer requirements. Safe and Reliable
- Equipped with multiple alarm protections for various conditions such as big irradiance differences, over-limit water conductivity, high cooling water temperature, low flow rate, and heating problems
- Provides the option for a TCP/IP Ethernet interface for remote machine control via TCP/IP internet, facilitating customer support and necessary after-service

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Main Technical Parameters

Optional Accessories:

- BGD 8158 - USA brand 6.5 kW Xenon Lamp (Water-cooled)
- BGD 8159 - USA brand 6.5 kW Xenon Lamp (Water-cooled)
- BGD 8160 - USA brand 2000 HRS Supply Package (Includes one BGD 8158 USA brand 6.5 kW water-cooled lamp, 5pcs S65 inner filters, one pc 4.5K/6.5K outer filter)
- BGD 8161 - 6.5KW BGD 2000 HRS Supply Package (Includes one BGD 8159 USA brand 6.5 kW water-cooled lamp, 5pcs W-143 inner filters, one pc W-144 outer filter)
- BGD 8171 - Purity Water System (100L/h, pure water can be less than 0.1 μ S/cm (input water < 200 μ S/cm))
- BGD 8176 - Cooling Water Machine (For cooling and cycling pure water, can greatly reduce water consumption)
- BGD 8179 - Air Compression System (Includes air compressor, air reservoir, freezing dryer, precise filter, etc.)
- BGD 8186 - Daylight Filter
- BGD 8187 - Window Glass Filter
- BGD 8192 - Metal Frame Air Filters
- BGD 8197 - Sample Shelf
- Xenon Calibration Radiometer

Ordering information: BGD 862 Plus - Xenon Test Chamber

Disclaimer

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