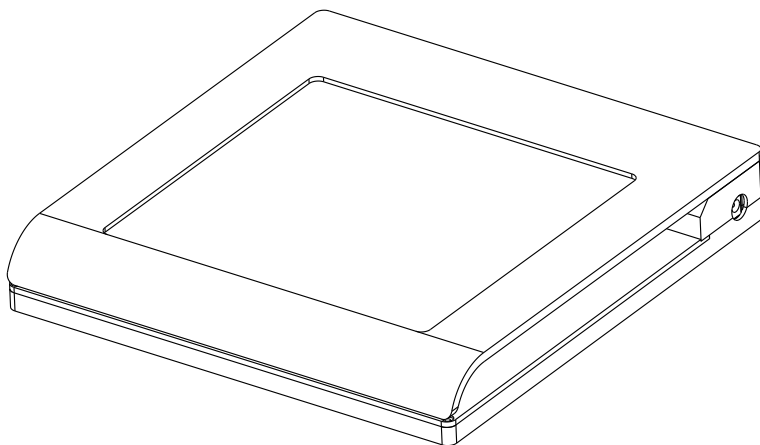




User Manual

Blue-white Light Transilluminator

BWL-T100

Please read the user manual carefully and keep it properly
before using the product for future reference

Wuhan Servicebio Technology Co., Ltd.

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01 Product Introduction

BWL-T100 Blue-white light transilluminator is a lamp box with dual light sources, designed for the field of life-science research and applied for observing and analyzing substances, such as nucleic acid and protein, allowing users to cut gel while observing.

The blue-white light transilluminator, when paired with a dark box, enables the capture of nucleic acid and protein gels using a smartphone. It also serves as an accessory for our gel imaging system (SCG-W1000) and multi-functional imaging system (SCG-W5000), facilitating image acquisition and processing within the instrument.

02 Technical Parameters & Precautions

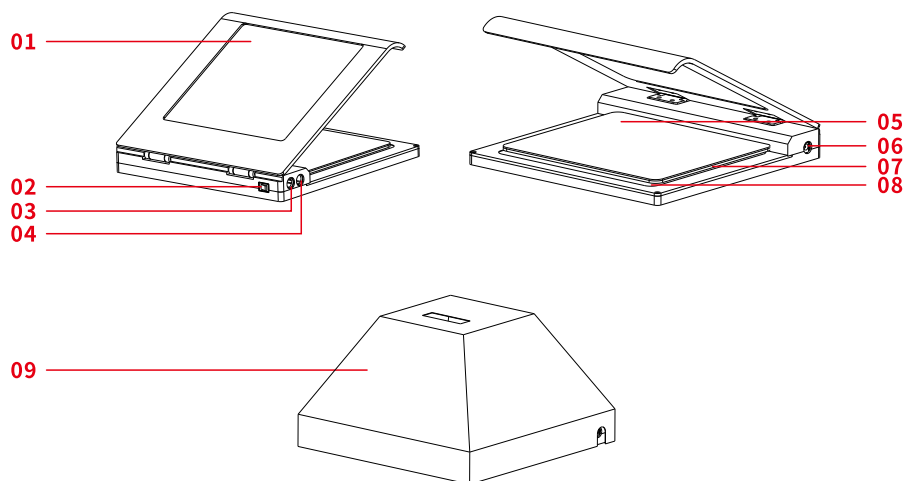
Technical Parameters

Product Name	Blue-white Light Transilluminator
Product Model	BWL-T100
Light Source	Blue light: 470 nm, the brightness switches among 3 settings(Low, Medium, High)in a cycle with each button press White light:the brightness switches among 3 settings(Low, Medium, High)in a cycle with each button press
LED Durability	20000h
Range of Illumination	190×170mm
Dark Box	Used as a set, 270×270×160mm
Input Voltage	12V
Input Current	1.5A
Maximum Power	18W
Dimensions	265×260×40mm
Net Weight	2.5Kg

⚠ Note

- Please pay attention to electrical safety and turn off the power switch after the experiment is completed
- Please clean up the clear tempered glass and blue filter after the experiment is completed

03 Functional Description

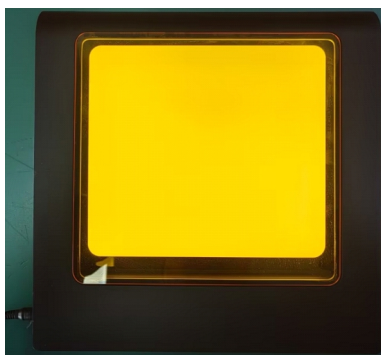


- 01 Orange Filter
- 02 Power Switch
- 03 White LED Switch and Power Adjustment Button
- 04 Blue LED Switch and Power Adjustment Button
- 05 Clear Tempered Glass
- 06 Power Input Connector
- 07 Blue Filter
- 08 Clear Tempered Glass
- 09 Dark Box

04 Operating Instructions

4.1 Starting Up

Connect the AC adapter and the blue-white light transilluminator and plug into the socket, turn on the power switch and the white light starts.



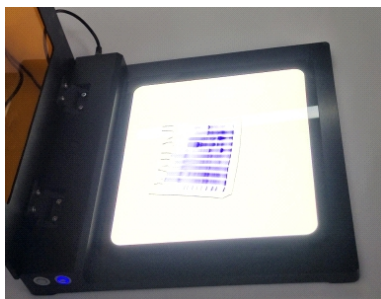
Preview and Shooting Interface

4.2 Gel Transilluminating

4.2.1 Protein Gel

After turning on the machine, the white light illuminates (at low setting). Raise the cover of the orange filter (01), place the protein gel on the clear tempered glass (08), and observe the results;

If the white light is not bright enough, then press the white light power adjustment button (03). The white light will become brighter (at medium setting). Keep pressing, the white light power will be adjusted to the high setting. Keep pressing it again, and it will be restored to the low setting. This process will run with each press.



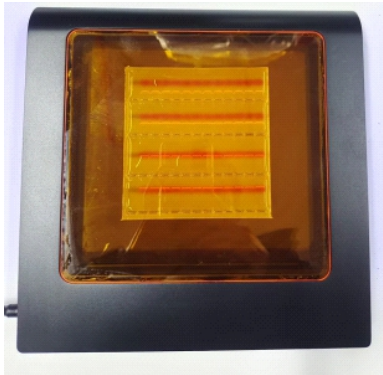
Illuminating protein gel

4.2.2 Nucleic Acid Gel

Press the blue light switch, the blue light illuminates (at low setting);

Lift the flip cover of the filter (01), place the blue filter and clear tempered glass (05 & 07) on top of the clear tempered glass (08), then put the nucleic acid gel on the clear tempered glass (05), close the flip cover of the orange filter, and observe the results;

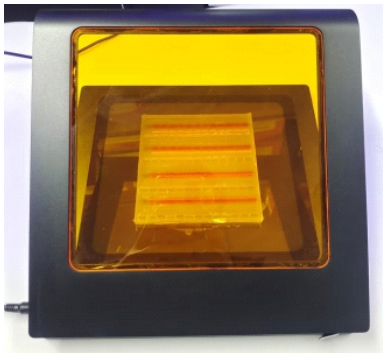
If the blue light is not bright enough, then press the blue light power adjustment button (04). The blue light will become brighter (at medium setting). Keep pressing it, and the blue light power will be adjusted to the high setting. Keep pressing it again and it will be restored to the low setting. This process will run with each press.



Preview and Shooting Interface

4.3 Gel Cutting

Lift the orange filter (01) flip up 45 °, observe the nucleic acid gel through the filter, and cut the gel for recycling.

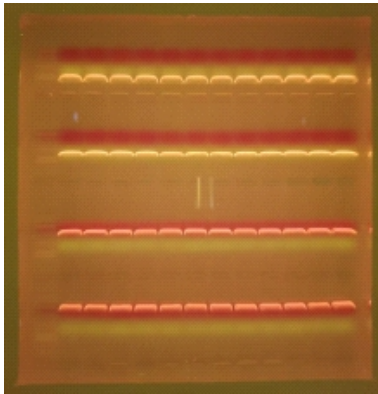
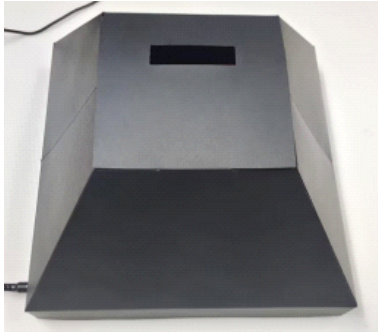


Gel cutting

4.4 Picture Taking

For protein gel: Observe the protein gel under the transilluminator. If the visualization effect is appropriate, use a smartphone to capture the gel pictures.

For nucleic acid gel: Observe the nucleic acid gel under the transilluminator. If the visualization effect is appropriate, cover the gel transilluminator with the dark box, bring the smartphone camera close to the window on the top of the dark box, and take photos of the nucleic acid gel.



4.5 Cleaning Up

After the experiments are finished, turn off the power supply and clean up with a cloth.

05 Product Configuration List

No.	Name	Parameter	Num.
1	Blue-white Light Transilluminator	BWL-T100	1
2	Nucleic Acid Gel Sample Tray		1
3	Dark Box		1
4	AC Adapter	Input:100~240V, 1A Output:12V, 2A	1
5	DC5525 Double Elbow Connector		1
6	Product Certification		1
7	User Manual		1

06 Warranty & Service Description

If any damage occurs to the instrument or its accessories within the warranty period, our company will be responsible for free repair or replacement of the damaged parts.

Exceptions apply to damages caused by the following reasons:

- 1. Damages resulting from improper use;
- 2. Repairs or modifications carried out by parties other than our company;
- 3. Replacement with parts not produced or authorized by our company.

For additional services, please visit the official website of Servicebio (<https://www.servicebio.cn/>) or call the national service hotline of Servicebio Technology Co.,Ltd.:400-6027178.

Please fill in the following warranty card information carefully when purchasing the product and keep it properly.

Product Name	
Product Model	
Date of Purchase	
Address	
Product No.	
Product Quality Feedback	



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