

# LIBRARY

## BOOK STERILIZER

c a t a l o g u e

2022





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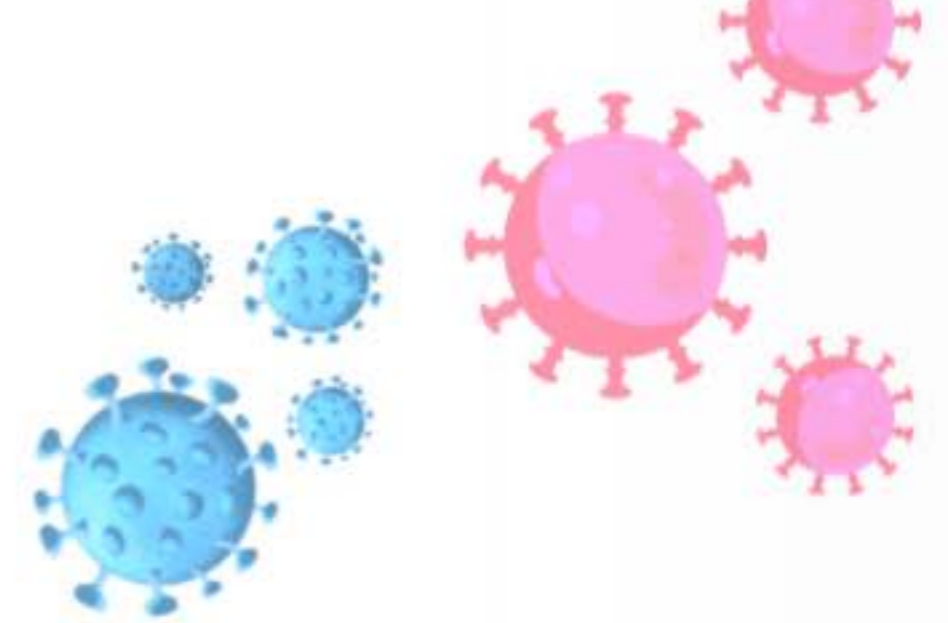
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IS MY READING  
SAFE

IF YOU CATCH ME, THEN YOU'LL PROBABLY GET

THESE SYMPTOMS: H1N1 FLU, DRY

COUGH, SNEEZED, INFECTED

WHILE READING

BEACUSE OF BOOKWORMS, GERMS SUCH AS H1N1 FLU, ETC.

VIRUSES AND OPPORTUNISTIC INFECTION VIRUSES SUCH AS  
COLON BACILLUS, DUST, FUNGUS, ETC. DURING THE BOOK

CIRCULATION





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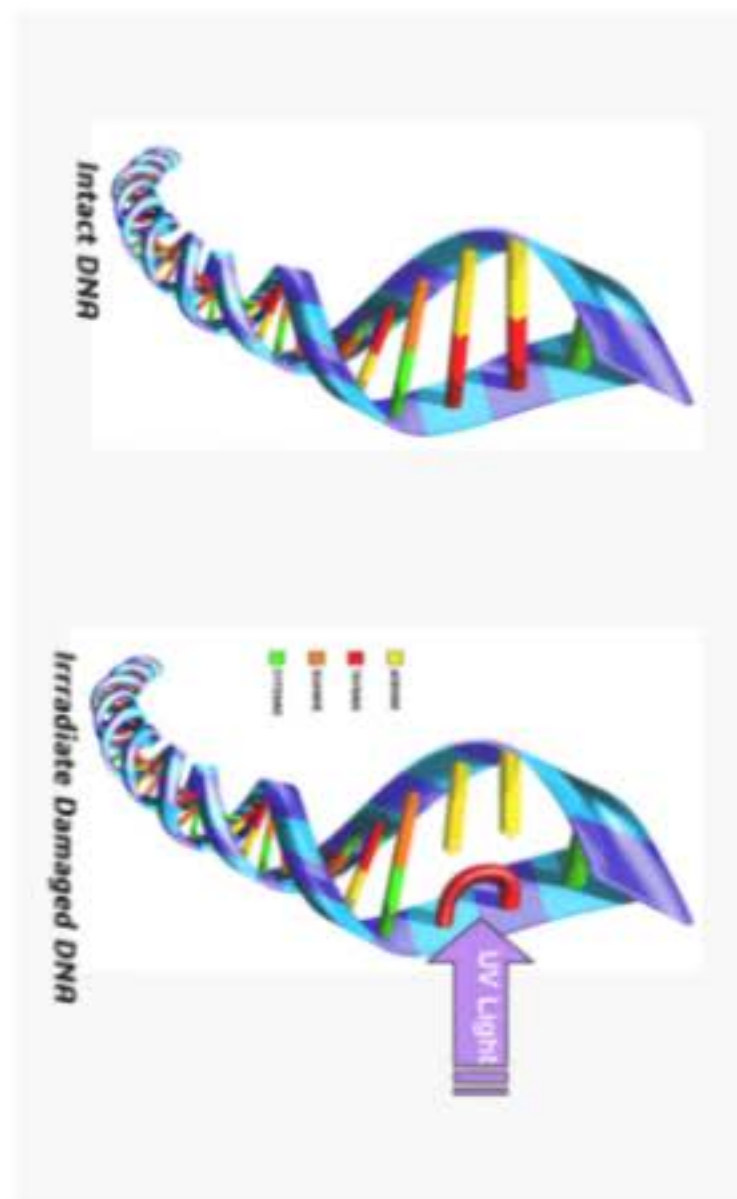
## How the book sterilizer Could Keep Your Reading Safe

### Effective, Safe and Convenience

The book sterilizer can eliminate bacteria, viruses, and mould from library materials with the touch of a button. UV rays (Short-wavelength, 253.7nm) are used to disinfect a wide variety of materials including books, magazines, mouse, keyboards, cell phones, purses, etc. in 30 seconds.

Studies have shown that UVC at 254 nm is effective against all foodborne pathogens, natural microbiota, molds, and yeasts.

UV sterilization is also known as ultraviolet germicidal irradiation, it can break certain chemical bonds and scrambling the structure of DNA, RNA and proteins, causing a microorganism to be unable to multiply. When a microorganism is unable to multiply, it is considered dead since it cannot reproduce within a host and is no longer infectious.



# SYMPO

## Safe Handling of library Materials

- Reopening Library
- Book Circulation
- Over 99.9% Efficiency
- 100% Safe
- One-Press Operation

Eliminating viruses and bacteria on both the cover and the inner pages and remove dust in 30-60 seconds.

4-13 books large volume disinfection. With UV Rays and safety phytoncide to enhance sterilization and remove the carcinogenic substances xylene, ammonia and other peculiar smells of books;

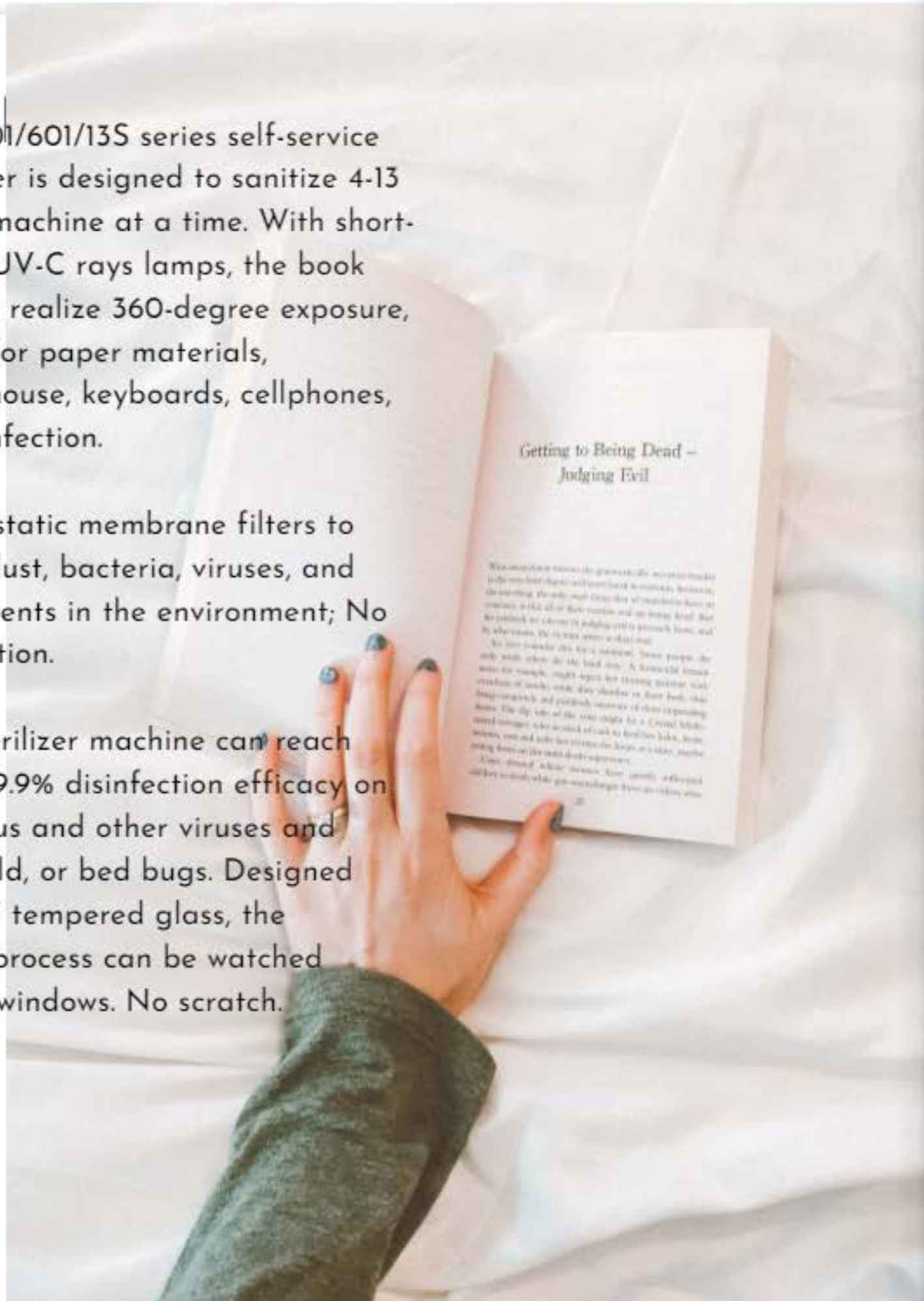
Lower investment and fast delivery.



AHLD401/501/601/13S series self-service book sterilizer is designed to sanitize 4-13 books each machine at a time. With short-wavelength UV-C rays lamps, the book sterilizer can realize 360-degree exposure, it's suitable for paper materials, stationery, mouse, keyboards, cellphones, and toy disinfection.

With electrostatic membrane filters to collect fine dust, bacteria, viruses, and allergic elements in the environment; No second pollution.

The book sterilizer machine can reach more than 99.9% disinfection efficacy on the H1N1 virus and other viruses and bacteria, mold, or bed bugs. Designed with Anti-UV tempered glass, the disinfection process can be watched through the windows. No scratch.



**Touch Screen**

One-touch operation panel  
With password protection to access setting to avoid any unauthorized operation

**Sterilization Rooms**

2 sterilization rooms for AHLD-501/601

**Anti-UV tempered glass**

Patrons can watch the disinfection process directly through the tempered glass  
Without worrying about the UV exposure

**Machine Room**

The electricity, filter, air freshener components

**Horizontal Book Hanger**

For books horizontal place

**UV-C Lamps (253.7nm)**

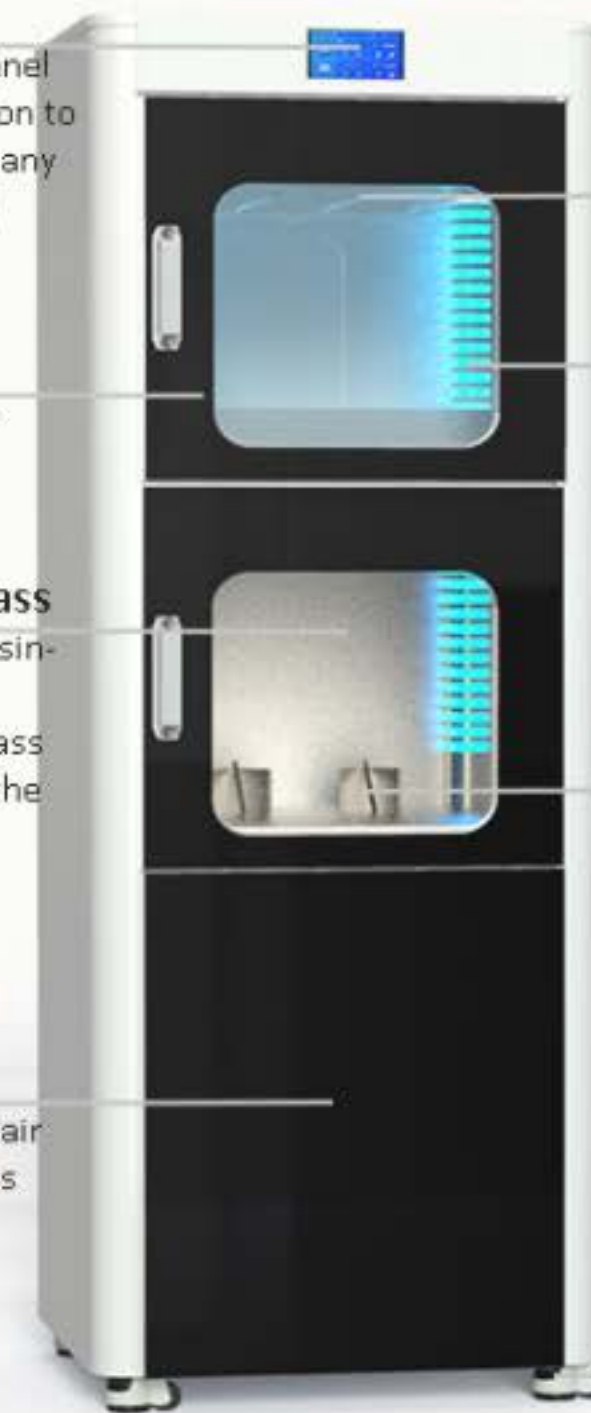
With 8 UV-Clamps (Based on AHLD501/601) to realize 360-degree disinfection  
For both the cover and inner pages

**Book Holder**

Provide an easy to hold book holder for vertical book place

**Travelling Wheel**

Easy to move and fixed at your will



AHLD-501



AHLD-601



Touch Screen Control Panel

9.7 Inch Information LCD

13 Books Sterilization Room

Anti-UV Tempered Glass

Machine Room

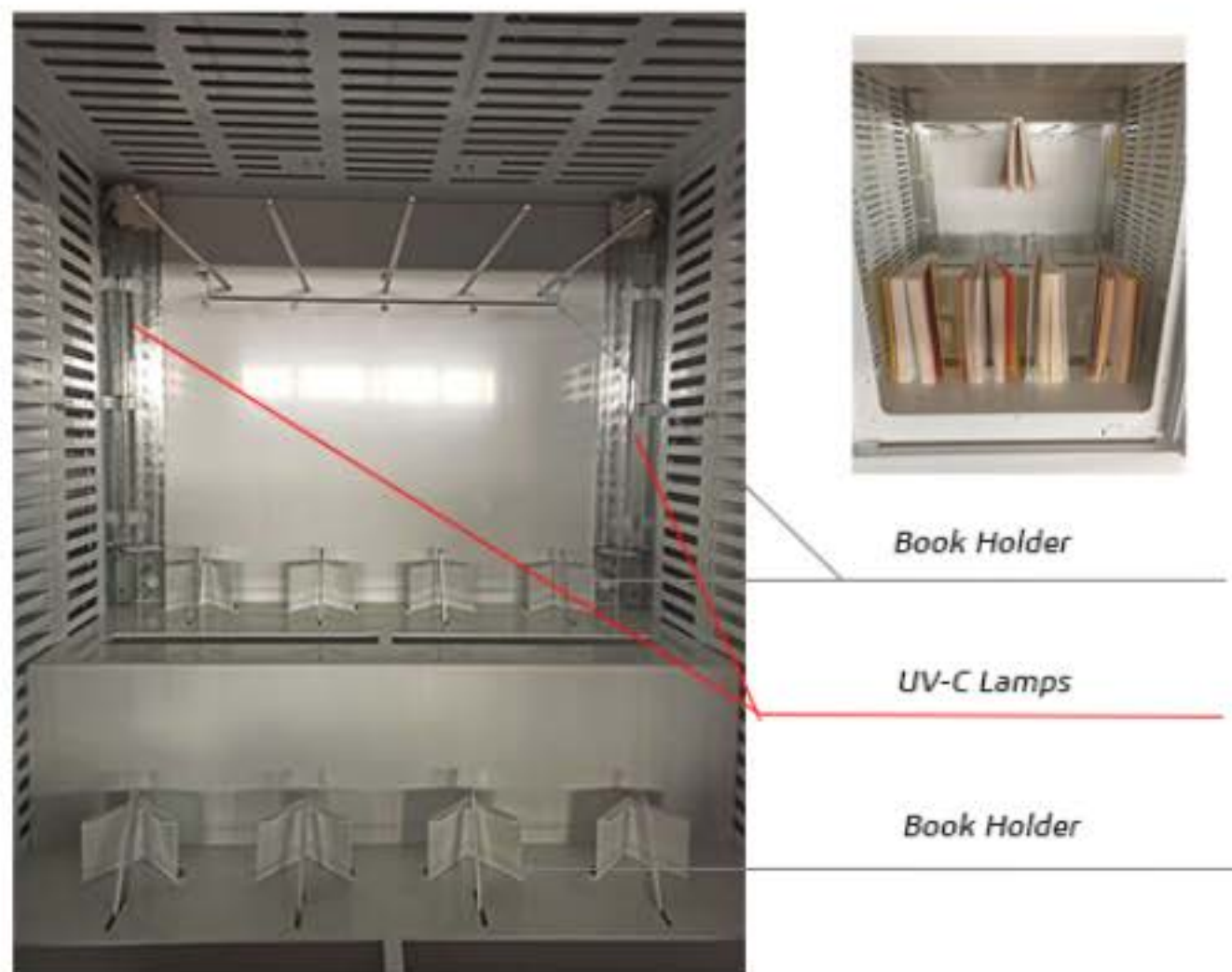
Traveling Wheels

自助图书杀菌机

AHLD-135







Book Holder

UV-C Lamps

Book Holder

# BOOK STERILIZER

4-13 BOOKS STERILIZATION EACH MACHINE AT A TIME IN 30 SECONDS. 100% SAFE



AHLD-401



AHLD-501/601



AHLD-13S

## More Details:

1. The built-in air blower can realize internal air circulation without the risk of dust from external air to extend the span life of the filter. The air blower can remove dust from books and keep books open so that UV light can reach the inner pages as well.
2. Safe Design with Open Door Protection: During the sterilization process, the UV-C lamps will shut off immediately when the door is suddenly open.
3. Touch Screen With Password Protection: One-touch operation with password protection to access to the default settings to avoid any unauthorized operation
4. AHLD-501/601 is standard for 5/6 books disinfection. And both models can be upgraded for 8 books disinfection (4 books for each sterilization room).

Model	AHLD-401	AHLD-501/601	AHLD-13S
Volume	4 books	5-6 books	13 books
W x D x H (cm)	55x52x69	55x52x164	70x60x155
Disinfection Method	UV-C lamps	UV-C lamps	UV-C lamps
UV-C Lamps	4 groups	8 groups	6 group x 36 W
Disinfection Time	30 seconds	30 seconds	30 seconds
Power Supply	220-240V/50-60Hz	220-240V/50-60Hz	220-240V/50-60Hz
Power	100W	170W	300W
Door Material(Anti-UV)	Tempered glass	Tempered glass	Tempered glass
Weight	45kg	98kg	130kg



# QUALIFICATION

## of Book Steilizer

# How to disinfect books with book sterilization machine?

Offers easy, plug-in and one-button operation. No installation required.

- 1** Open the door of the sterilization room
- 2** Open books and divide it into 2 parts. Then put the book on the vertical or horizontal holders
- 3** Close the door
- 4** Press the "UV" button on the touch screen to start the disinfection process
- 5** Once finished, open the door and take out the books

### ALSO GOOD TO KNOW

1. Do not try to open the doors during the sterilization process. The book sterilizer will cut off the power and the UV-C lamps will be turned off automatically when the door is suddenly open during the sterilization process.
2. The new UV-C book sterilizer and advertising machine is a new and helpful solution that allows your Library, School, Nursery, or Airport to sterilize and deodorize all kinds of personal belongings or non-collection materials( Such as headsets, audio guides, laptops, and tablets) while display notices and information as well.
3. No wet materials

**SGS**

测试项目: 微生物限度检测  
 报告日期: 2023/09/12

菌株名称	规格	检测日期	检测结果 (CFU/g)	标准要求 (CFU/g)	合格率 (%)
大肠杆菌 (E. coli)	1	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
	2	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
	3	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
金黄色葡萄球菌 (S. aureus)	1	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
	2	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
	3	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
白色念珠菌 (C. albicans)	1	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
	2	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
	3	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
铜绿假单胞菌 (P. aeruginosa)	1	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
	2	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%
	3	2023/09/12	1.0x10 <sup>2</sup>	1.0x10 <sup>3</sup>	99.9%

**分析检测结果 Results**

1. 测试时间: 1分钟  
 2. 测试结果:

菌株名称	编号	检测前菌量 (cfu/g)	检测后菌量 (cfu/g)	杀灭率 (%)
大肠杆菌 (E. coli)	1	2.7x10 <sup>7</sup>	2.2x10 <sup>2</sup>	99.9%
	2	2.7x10 <sup>7</sup>	2.2x10 <sup>2</sup>	99.9%
	3	2.6x10 <sup>7</sup>	2.0x10 <sup>2</sup>	99.9%
金黄色葡萄球菌 (S. aureus)	1	2.4x10 <sup>7</sup>	2.0x10 <sup>2</sup>	99.9%
	2	2.5x10 <sup>7</sup>	1.9x10 <sup>2</sup>	99.9%
	3	2.4x10 <sup>7</sup>	1.9x10 <sup>2</sup>	99.9%
白色念珠菌 (C. albicans)	1	2.2x10 <sup>7</sup>	2.1x10 <sup>2</sup>	99.9%
	2	2.7x10 <sup>7</sup>	2.1x10 <sup>2</sup>	99.9%
	3	2.7x10 <sup>7</sup>	2.1x10 <sup>2</sup>	99.9%
铜绿假单胞菌 (P. aeruginosa)	1	2.1x10 <sup>7</sup>	1.9x10 <sup>2</sup>	99.9%
	2	2.0x10 <sup>7</sup>	1.9x10 <sup>2</sup>	99.9%
	3	1.9x10 <sup>7</sup>	1.8x10 <sup>2</sup>	99.9%
假单胞菌 (Pseudomonas)	1	2.1x10 <sup>7</sup>	2.1x10 <sup>2</sup>	99.9%
	2	2.2x10 <sup>7</sup>	2.1x10 <sup>2</sup>	99.9%
	3	2.3x10 <sup>7</sup>	2.1x10 <sup>2</sup>	99.9%

备注: 样品在检测前经紫外线照射10分钟。  
 Remark: Sample was irradiated with UV light for 10 minutes before testing.

制表: 徐颖 (Editor)  
 审核: 张华 (Verifier)  
 批准: 李强 (Approver)

**广微测** (Guangwei Test)

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

**ANALYSIS AND TEST RESULT**

Report No.: 2023090101010

1. Sample pretreatment: Took the glass in the corner to make bacteria adhere. Opened a 3x open book, the inside of the book was from left, center and right. Took the glass in the middle of the book, about 7cm from the bottom, and glass of the book on the shelf in the middle of the machine, set the control and started the test.

2. Test Result:

Strain Name	Specimen	Group	Logarithm of infectivity titre of before (CFU/20μl)	Substrate time of 45 min (CFU/20μl)	Logarithm reduction value (LD)	Value, Microbiological (LD)
E. coli	Control group	1	7.27	2.72x10 <sup>2</sup>	-	-
		2	7.27	2.72x10 <sup>2</sup>	-	-
		3	7.27	2.72x10 <sup>2</sup>	-	-
S. aureus	Control group	1	7.27	2.72x10 <sup>2</sup>	-	-
		2	7.27	2.72x10 <sup>2</sup>	-	-
		3	7.27	2.72x10 <sup>2</sup>	-	-
C. albicans	Control group	1	7.27	2.72x10 <sup>2</sup>	-	-
		2	7.27	2.72x10 <sup>2</sup>	-	-
		3	7.27	2.72x10 <sup>2</sup>	-	-
P. aeruginosa	Control group	1	7.27	2.72x10 <sup>2</sup>	-	-
		2	7.27	2.72x10 <sup>2</sup>	-	-
		3	7.27	2.72x10 <sup>2</sup>	-	-

3. The results of the negative control group are all in the expression of the reduction value.

**广微测** (Guangwei Test)

广东省微生物分析检测中心  
 GUANGDONG DETECTION CENTER OF MICROBIOLOGY

**分析检测结果 Results**

报告编号: (Report No.): 2023090101010

1. 测试时间: 1分钟  
 2. 测试结果:

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	2	2.0x10 <sup>7</sup>	1.9x10 <sup>2</sup>	99.9%
	3	1.9x10 <sup>7</sup>	1.8x10 <sup>2</sup>	99.9%





## **Alphatch Technology**

C3 Building, NUST, Zhengzhou, People's Republic of  
China 450000

<https://www.booksanitizer.com/>

<https://www.alphatch.com/>

Main Tel: +86 371 6358 2158

Main Fax: +86 371 6358 2314

Mobile/Whatsapp: +86 150-8312-8898

Email: [info@alphatch.com](mailto:info@alphatch.com)