

# One Key Recycling Intelligent Disinfection Cabinet for Waste Textbooks

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The intelligent disinfection cabinet for textbooks is sterilized with ozone, with an automatic page turning device used to make textbook pages contact with the ozone fully and enable a thorough sterilization for the book. There is a reduction device in disinfection cabinet eliminating the residual ozone, making the device environmentally friendly and pollution-free. Experimental results show that under the conditions of ozone concentration of 250 mg/m<sup>3</sup>, page turning speed of 25 pages / minute and humidity of 50%, an overall sterilization rate of 94% is achieved. The device effectively disinfect textbooks and avoids paper damage. So it is suitable for disinfection of circular textbooks and saves valuable forest resources.