

# Manual of ZF-1 three-purpose ultraviolet analyzer

This instrument is composed of ZSZ-8-A and ZSZ-8-B ultraviolet lamps and filters. ZSZ-8-A emits (shortwave) 254nm, 2 ZSZ-8-B emits (longwave) 365nm, this machine can emit strong 254nm., 365nm ultraviolet rays, respectively, can also use a mix of two wavelengths at the same time. And a 4-watt ordinary fluorescent lamp is installed in the base of the instrument to locate and illuminate the analysis plate.

The machine has low power consumption, low heat, and can be used continuously for a long time. This instrument uses a high-quality electronic ballast system, so that the lamp can be started quickly, that is, it is turned on, so as to protect the quality of the lamp use of the system.

1. In scientific experimental work, it can detect many major substances, such as proteins, nucleotides, etc.
2. In drug production and research, check the quality of fluorescent drugs such as hormone alkaloids and vitamins, especially suitable for thin layer analysis, paper layer analysis spots and detection.
3. In the chemical industries such as dyes, coatings, rubber, petroleum, etc., determine various fluorescent materials, fluorescent indicators and additives, and identify different types of crude oil and rubber products.
4. In textile chemical fiber, it can be used to determine different kinds of raw materials, such as wool, silk, artificial fiber, cotton, synthetic fiber, and can check the quality of finished products.
5. Check the quality of toxins (such as aflatoxin), food additives, spoiled vegetables, fruits, cocoa bean fat, chocolate, fat, honey, sugar, eggs by hand in the grain and oil, vegetable and food departments.
6. In geology, archaeology and other departments, it can find various minerals and determine the authenticity of cultural relics and fossils.
7. In the public security department, it can be used to check finger marks, measure secret writing, etc.

Technical specifications:

Power supply: 220V 50Hz

UV lamp: 8W 230mmx2

Fluorescent lamp: 4W 135mmx1

Filter: 60mm × 200mm

Use and storage: Connect to the 220V power supply, press the light to light up, and put the detection object under the lamp to observe and analyze. When the lights are on, never look directly from the bottom up. This instrument should be placed in a clean and dry place to avoid vibration. Lamps and filters should be avoided for direct contact to avoid contamination and loss of transparency. The filter should be wiped clean with gauze stained with organic solvents such as alcohol or ether.