

MBG MT4

User guide

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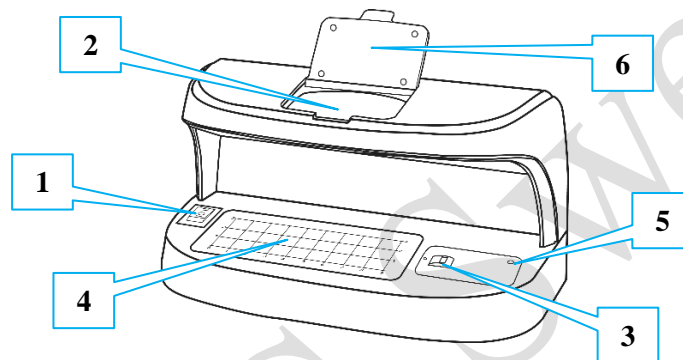
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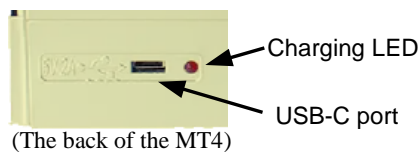
1. Introduction of MBG MT4

The MBG MT4 is a UV lamp designed to check the paper optical properties and the hidden UV fluorescence security features of banknotes and other security documents. Watermarks and magnetic security features can also be checked by MT4, as well as a magnifying glass for reviewing details.

2. Hardware Overview



- | | |
|--------------------|---------------------|
| 1. On/Off | 2. Magnifying glass |
| 3. Magnetic sensor | 4. Backlighting |
| 5. LED-indicator | 6. Hatch |



3. On/Off button functions

The power switch has three positions.



- II. Ultraviolet light on.
- 0. Off.
- I. Backlight and magnetic sensor on.

Before you begin, make sure you are familiar with the document security features you want to control.

4. How to Check UV Fluorescence Safety Features

Press the power switch to position "II" to turn on the ultraviolet light, the LED indicator will also light up. Place the note or document to analyze in MT4. For detailed inspection, you can observe through the magnifying glass.

5. How to check magnetic safety features

Press the power switch to the "I" position to turn on the magnetism sensor and the backlight panel. Find the expected position of the magnetic area on the banknote you want to check. Gently press a finger on the banknote and rub the area back and forth on the magnetism sensor. If magnetic properties are present, you will hear a beep sound and the LED indicator will light up.

6. How to search for watermarks

Press the power switch to the "I" position to turn on the backlight panel. Place the bill or document on the backlight panel and check for watermarks. Security threads will also appear. For detailed inspection, you can observe through the magnifying glass.

7. How to control microprints and other graphic details

Open the cover of the magnifying glass. Place the note or document under the magnifying glass and inspect the microprint or other small graphic details you want to check. You can turn on the ultraviolet light or the backlight panel to enhance the details.

8. Power and charging

Connect a standard USB charger to the USB C port on the back of the MT4 to charge the internal Li-ion battery. The charging light lights up during charging and turns off when the battery is full. 0 – 100% charging takes about 3 hours.

9. Maintenance and Service

To ensure proper operation, observe the following points:
Regularly clean the external surfaces, the magnifying glass and the surface of the backlight with a soft, lint-free cloth.
Do not use liquid cleaners or aerosol cleaners.
Charges LED USB C port regularly.
In case of general error and if the troubleshooting fails, disconnect the power, remove the battery and contact MBG for technical support.

10. Technical specifications

Dimensions (D x H x W): 10.5 x 10.5 x 20.3 cm	Dimensions (D x H x W): 10.5 x 10.5 x 20.3 cm
Weight: 0.49 kg (including battery)	Weight: 0.49 kg (including battery)
Temperature range: 10 – 45 °C (operating)	Temperature range: 10 – 45 °C (operating)
Humidity: Less than 85%	Humidity: Less than 85%
Light sources: Double UV-A (365 nm) LED and visible light LED module	Light sources: Double UV-A (365 nm) LED and visible light LED module
Power supply: Internal rechargeable battery: 3.7 VDC, 1200 mAh	Power supply: Internal rechargeable battery: 3.7 VDC, 1200 mAh
Power consumption: Less than 6 W	Power consumption: Less than 6 W
Charging: Standard USB charger (5 VDC, 2 A) via USB C port.	Charging: Standard USB charger (5 VDC, 2 A) via USB C port.

