www.dors.com

DORS 50

ULTRAVIOLET COUNTERFEIT DETECTOR

USER MANUAL

User Manual
Version 5.0E

CONTENTS

READ THIS MANUAL THOROUGHLY
BEFORE OPERATING THE DETECTOR!

DETECTOR FEATURES

The ultraviolet counterfeit detector **DORS 50** (henceforth the detector) is designed for visual authenticity verification of different currencies banknotes, securities, documents, traveler's cheques and other security printing documents using the UV viewing methods.

The detector provides verification of the fol lowing pro tec tion elements:

- absence of general paper luminescent background;
- presence of luminescent areas (marks, ima ge frag ments, se curi ty thre ads and fib ers).

BRIEF INFORMATION FOR CUSTOMER

Ultraviolet detector **DORS 50** developed in Russia by KB DORS LLC.

Assembled in China by DORS Industries (China) Ltd., No 17, Shilong information industrial park, Shilong town, Dongguan city, Guangdong.

Service term 7 years*.

* Under condition that detector is being used in strict accordance with this user manual and applied technical standards.

SPECIFICATIONS

Power source	220-240V ~ 50Hz 0.08A
UV-light source	one 4W UV tube
Operation temperature	+10°C +40°C
Relative humidity at +25°C	40 to 80%
Atmospheric pressure	84 to 107 kPa (630 to 800 mm of mercury)
Dimensions:	
Width	190 mm
Depth	96 mm
Height	75 mm
Net weight, within	0,3 kg
Gross weight,within	0,42 kg

In order to improve the device quality, specifications and models are subject to change without notice.

COMPLETE SET

The detector complete set includes:	pcs
ULTRAVIOLET COUNTERFEIT DETECTOR DORS 50	1
User Manual	1
Package	1

SAFETY PRECAUTIONS

1. When replacing the tube, you should remove the power plug from the socket to avoid a shock hazard.

2. Do not insert or remove the plug with wet hands. It may cause a shock hazard.

3. When removing the power cable, handle it by the cable plug to avoid the cable damage.

4. When moving the detector, remove the power plug from the socket. Otherwise, fire or short circuit may occur.

5. It is strictly prohibited to work with the detector if the power cord is damaged. The power cord must be replaced by the manufacturer or the manufacturer's authorized technical support service.

6. If the detector was exposed to cold for an extended period of time, it is necessary to maintain it under the room temperature for at least two hours before starting operating.

APPEARANCE

Fig. 1

OPERATION

1. In stall the detector on the flat horizontal surface.

2. Connect the detector to the wall outlet 220 V, 50 Hz and switch it on with the "POWER" switch on the top panel of the detector (Fig. 1).

The outlet should be close to the detector and easily accessible.

3. Place one or several bank notes in front of the detector under ultraviolet light (in the viewing zone).

4. Compare obtained data with the authentic banknote data.

After completing working with the detector be sure to turn off the detector and disconnect it from the outlet.

TRANSPORTATION AND STORAGE

The detector should be stored in the manufacturer's package in heated storehouses under the temperature from plus 5°C to plus 40°C and relative air humidity not exceeding 80% at plus 25°C.

The detector may be transported in the manufacturer's package (for not more than 30 days) by truck or railway transport in containers or house cars or by air transport in the pressured compartments under the temperature from minus 30°C to plus 50°C, relative air humidity not exceeding 98 % at plus 25°C and pressure from 84 to 107 kPa (630 to 800 mm Hg).

TROUBLESHOOTING

1. In case of the blue glow (fluorescence) in the viewing zone is lost at start or while the detector is in service, probably the **thermal protection** of the detector is actuated. The thermal protection prevents failure of electronics. While it is actuated, power supply of the tube is off.

   To reset the thermal protection, turn off the detector and disconnect it from the wall outlet for more than 3 min. If the tube does not light up when turning on again, it should be replaced.

   Replacement of the tube should be performed by **qualified service personnel only**.

Flashes in lamps within 120 hours since work start are not defects.

UV TUBE IS A CONSUMABLE MATERIAL

Never throw out the exhausted tubes into domestic waste containers!
After replacement, the tubes should be delivered to the luminescent tube utilization agency