

1500 IR / 1500 IRPM

PRO-1500 SERIES



PRO Intellect Technology Corporation offers the PRO-1500 series of counterfeit currency detectors. This series is designed for the complex authentication of banknotes from various currencies, including United States dollars and the euro, as well as securities and documents such as licenses, bonds, and excise stamps. The multi-stage verification accurately detects counterfeit banknotes and documents at the highest level of authentication. This device is designed for use in banks, accounting departments, currency exchanges, supermarkets, etc.

Distinctive Features

- Multiple currency detector for authentication of banknotes
- Infrared authentication
- Infrared markings location control
- Ultraviolet light authentication*
- Fluorescent light authentication *
- Magnetic sensor *
- Automatic power (on/off) sensor
- External 10x magnifier with backlighting and autonomous power supply (AAAx2 batteries)

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Specifications

- IR lamp power*10 W
- UV lamp power*,4 W
- Daylight lamp power* 2 W
- CRT screen stabilization time6 sec
- Auto switch interval.....min ~5
- Voltage (via adapter)..... 12V/~110/220V
- Power consumption20W
- Operating temperature +10~+40°C (+50~+104°C)
- Overall dimensions..... 155x260x180mm (12 1/5"(L) x 8 4/5"(W) x 8 1/8"(H))
- Net weight.....1.25 kg (2.8lb)

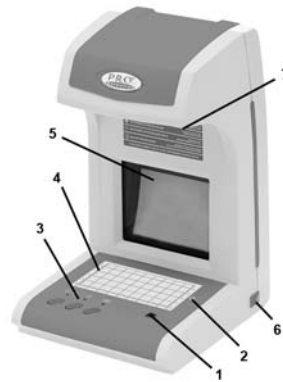
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Safety precautions

1. The device should only be used on an even horizontal surface. Keep the device away from water or small objects that can become embedded in the internal components of the device.
2. Do not place the device in direct sunlight or any strong artificial light that can interfere with the UV or backlight. Take precautions to protect the device from vibration or dust.
3. If the device has been exposed to cold for an extensive period of time, it should be kept at room temperature for at least 3 hours before use.
4. **WARNING!** Do not use the device for more than 8 hours consecutively. After 8 hours, the device should be turned off to prevent the UV or backlight from overheating. Do not leave the device turned on without an operator. The manufacturer is not responsible for injury or damage to the device in the event of improper use of the device.

* - Hereinafter only for PRO-1500IRPM model

- 1 Magnetic sensor *
- 2 Automatic power on/off sensor
- 3 Control panel
- 4 Operation table
- 5 Screen (CRT)
- 6 Power off
- 7 Ultraviolet lamp*



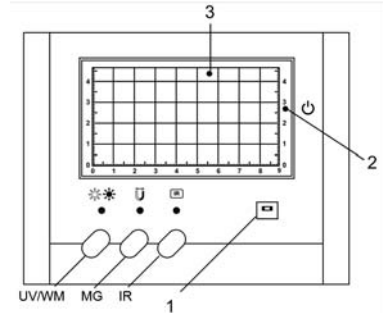
- 1 magnetic sensor *
- 2 automatic power on/off sensor
- 3 magnetic sensor indicator *

UV/WM - mode start button

UV banknote verification with the help of Daylight lamp

MG - magnetic sensor on/off button

IR - banknote verification mode on/off button



ATTENTION! Place banknote on the object table over the auto start sensor. Time for image stabilization of the CRT screen is 6 sec.

for PRO 1500IRPM

Connect the supplied adapter to the power input port and switch the device on. Press the "UV/WM" button and the corresponding indicator will light up.

Place the banknote under the UV light (fig. 1.7) and the UV light (located in the top cover) will turn on automatically.

Under UV light, banknote paper should not glow. Counterfeit banknotes printed on common (non-official) white paper will glow brightly under UV light. However, it should be noted that the same glow can be seen when authentic banknotes have been exposed to certain environments, especially laundry detergent or bleach.

If the banknote has suspicious UV properties, further verification is necessary. The UV light will turn off automatically after 5 minutes.

for PRO 1500IRPM

Press the "UV/WM" button and the corresponding indicator will light up. Place the banknote on the working table (Fig.1 pos.4) over the auto start sensor and the fluorescent light will turn on. Check for the presence of watermarks, evidence of erasure or other damage, continuity of lines and microprinting on the banknote.

for PRO 1500IRPM

Push the "MG" button and the corresponding indicator will light up. Press the banknote against the magnetic sensor and move it back and forth. The presence of a magnetic mark will be indicated by a sound and blinking of the green magnetic sensor indicator (fig. 2, pos.3). This process tests for the presence of magnetic features at currency-specific locations.

Additionally, banknotes should be tested for the presence of magnetic features where none should be detected (for example, on the Federal Reserve mark on USD). If the device makes no indication during this process, the banknote can be considered authentic.

Attention! It is possible to imitate magnetic ink by spreading magnetic substances on the surface of a banknote. Such banknotes may result in a positive indication of magnetic substances where none should be detected.

Attention! Some types of copiers, laser printers, and other imaging devices can contain magnetic substances that will leave magnetic markings on banknotes.

Connect the magnifier's power cord to "OUT DC 9V" jack. Press the power button (left). Place the magnifier on the banknote and check for continuity of lines, anti scanner net, and micro text. One can also use the magnifier with batteries (AAx2) to work independently of the main device.

- For the **PRO-1500IRPM model**, press the "IR" button and the indicator will light up.
 - For the **PRO-1500IR model**, switch on the detector by toggling power switch 6.
- Place a banknote on the working table over the auto start sensor. The CRT display will stabilize after 6 seconds.

After the display shows the image of the banknote, the device is ready to test the banknote. If the banknote is authentic, the display will show currency-specific infrared marks on the screen. Examples of the expected marks are shown in the appendix below. If the image on the display fully corresponds with the banknote (i.e. there are no IR marks), the banknote should be regarded as suspicious or counterfeit.

For USD, the following images are typical:

- face and back sides (see appendix)

For EURO, the following images are typical:

- face and back sides (see appendix)

Remove the banknote when finished and the screen will automatically shut off after 5 minutes. Turn off the detector when finished.

Attention! For different currencies (including USD, EURO), depending on the year of issue, IR marks may be in different locations.

Attention! CRT displays have a naturally limited lifespan. Do not leave a banknote in the device for extended periods to protect the CRT display.

Manufacturer guarantees proper functioning of the device during the warranty period since the date of sale under condition of compliance with maintenance and storage procedures described in this manual. After unpacking the device please keep the package and technical description. Warranties are canceled in the event that the device was not transported in the original packaging or maintenance procedures were violated. Manufacturer is not responsible for device malfunction as a result of improper maintenance, storage and transportation including mechanical failures.

In case of the device failure during the warranty period, the customer has the right to have it repaired in our service center for free. The service center accepts equipment for cleaning due to dust and mud, however cleaning equipment from dust and mud is not included in the warranty and is charged separately.

Warranty service does not include any training for equipment maintenance or other use of the device (connection, testing, customizing, preventive works etc.) which the customer can complete on their own by referencing the attached manual.

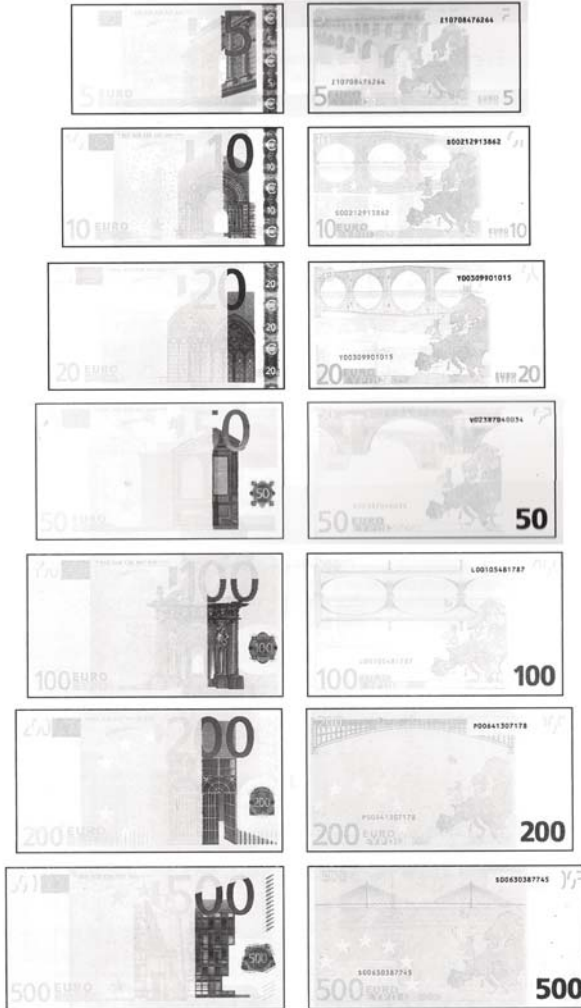
Producer is entitled to introduce updated software, not described in the current manual.

Warranty service is not available in the following cases:

- Absence of a warranty card, an incorrectly filed warranty card, or other invalid card
- If operation or maintenance rules mentioned in the manual were violated
- If there is mechanical damage to the equipment
- If there are foreign objects or liquid inside of the device

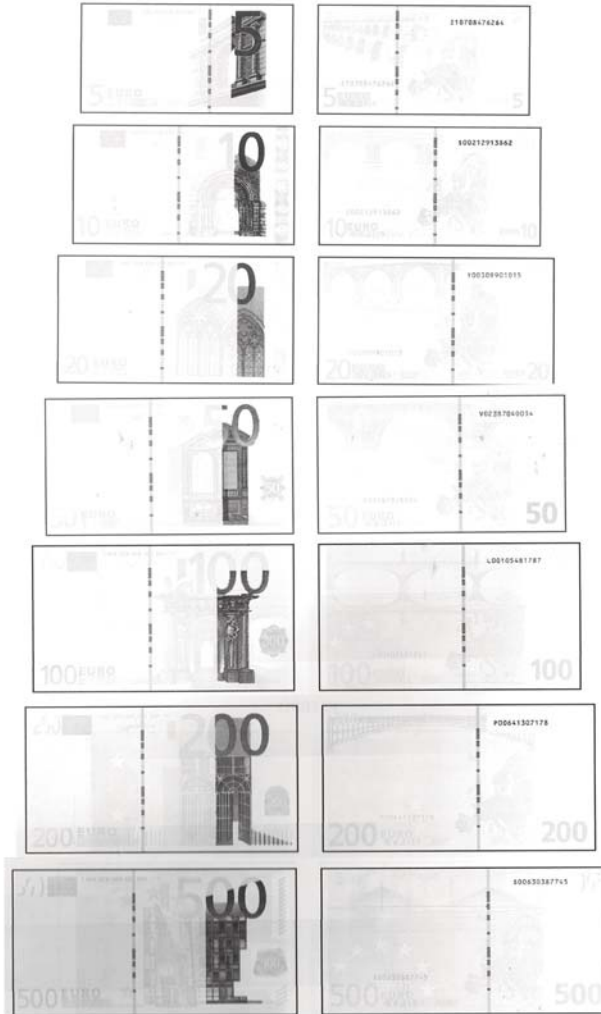
The present warranty does not apply to lamps, batteries, belts, network adaptors, power units, safety fuses, brushes, parts of the body of the product or any other parts which have a naturally limited period of service including failures caused by power supply failures. Replaced defective parts are to be considered the property of the producer. The owner delivers faulty equipment to the service center at their own expense.

EURO. IR marks situation



PRO Intellect Technology Co. Ltd..

EURO. Magnetic marks situation



PRO Intellect Technology Co. Ltd..

EURO. Correct image under UV-light



PRO Intellect Technology Co. Ltd..

EURO. Correct image under backlight



PRO Intellect Technology Co. Ltd..

USD. IR marks situation



PRO Intellect Technology Co. Ltd.

USD. Magnetic marks situation



PRO Intellect Technology Co. Ltd..

USD. Correct image under UV-light



PRO Intellect Technology Co. Ltd..

USD. Correct image under backlight



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